



Complete Range Enclosure Systems





BERNSTEIN AG – A Success Story



Safety for man and machine

BERNSTEIN AG ranks among the world's leading providers of industrial **safety technology**. With our comprehensive range of **switches**, **sensors**, **enclosures**, **suspension systems** and other components for industrial applications, we offer our customers effective and versatile solutions.

In-depth market knowledge, the close proximity to end users as well as years of experience in mechanical engineering and electronics are reflected down to the last detail in our products.

By conforming to international safety guidelines, our products perfectly integrate in individual system solutions. Our focus is complete commitment to safety for man, machine and industrial processes.

Our expertise for your safety

With sound application expertise we support our customers from all branches of industry in the planning and implementation of systems designed to meet stringent safety requirements. In addition to classic **plant and machine construction**, we look after customers in the **lift construction**, automotive, agriculture, conveyor construction, automation engineering, wood-working, renewable energy, medical technology industries, AS-Interface and ATEX.





Customer Satisfaction is our number one priority. For us, **Quality** is more than making a good product, it's about designing them to perfectly match ALL of your needs.

Customized Solutions are fully integrated into our business and form part of our everyday working life. Employees are treated as our greatest asset as they are responsible for the quality and success of our products. All BERNSTEIN TEAM members are trained and educated to the highest possible standard so they can deliver "Best in Class" Service and Support. The BERNSTEIN TEAM will support you both personally and professionally, working together we will provide you with the best Safe Solution – for any size of project.

Future-proof solutions

Our objective is to actively influence technical innovation and modern application solutions. BERNSTEIN has therefore always been at the centre of defining trends in technology. With an unwavering commitment to the future we will continue providing the best possible answers in terms of technology, ecology and economic efficiency.

That is our definition of progress!

BERNSTEIN AG The Product Lines

Switch system



Sensor systems



Switch system – Economy meets safety

BERNSTEIN electromechanical switches offer a convincing price/performance ratio and impress with their extreme reliability for many different operating voltages. The range extends from limit switches, encapsulated in insulating material or metal, through foot switches to safety switching devices. The AS-i compatible products save time and material in installation and provide cost advantages in operation. The comprehensive range of designs and sizes, the possible switching functions and the choice of actuators make virtually any application reality.

Sensor systems – Compact intelligence

The extremely fast and exceptionally precise BERNSTEIN sensors operate without interference and wear in all applications. The tried-and-tested reliability and the compact dimensions are greatly appreciated in all branches of industry. Matching the specific application, in addition to ultrasonic sensors and level switches, customers can choose from a wide range of inductive, capacitive, magnetic or optical sensors. Alongside the comprehensive standard range of sensors, we also offer comprehensive development and design for individual solutions.



Enclosure systems



Enclosure systems – Function and design

With its long tradition in manufacturing enclosures, BERNSTEIN combines superior enclosure technology, designed for encapsulating a diverse range of applications, with ultramodern and variable suspension systems. An extensive range of aluminium and plastic terminal boxes as well as the wiring and circuitry in standard and control enclosures conforming to specific customer requirements round off the product portfolio. Our enclosures conform to standards used in medical technology, industry as well as food and EX applications.

Product Line **Enclosure Systems**



Enclosure systems – Function and design

Functional design, high quality and durability are essential prerequisites for effective system integration. We incorporate customised wiring and specific component configurations in our expanded enclosure production process, which includes the preassembly of mounting rails or the installation of PLC/IPS solutions of all renowned manufacturers. In cooperation with our customers, this extremely pragmatic project planning results in fast and exceptionally reliable solutions.

In the modular aluminium control enclosure systems we combine state-of-the-art design with outstanding technical features to individually and efficiently encapsulate industrial controllers and operator panels. Our extensive range of suspension systems perfectly enhance this product portfolio. The same meticulous attention to detail is reflected in our range of stainless steel control enclosures.

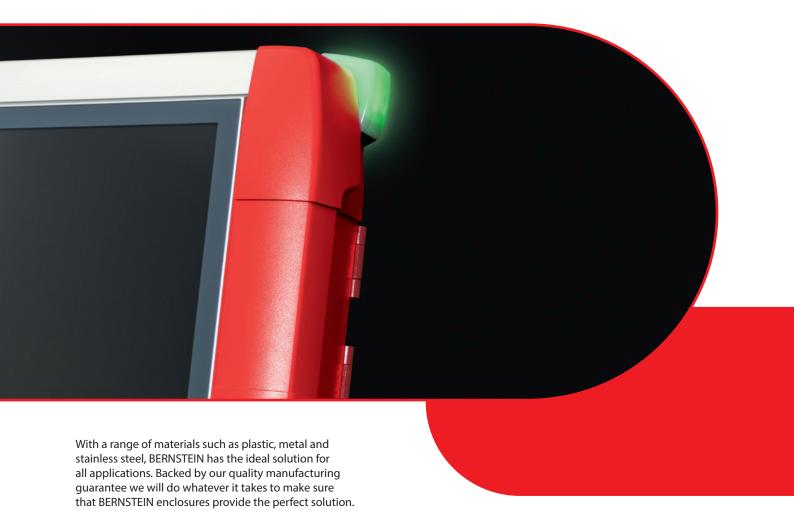
These products are ideally suited for applications where the use of stainless steel is essential on account of special requirements and ambient conditions. With special sizes, different surface finishes and the comprehensive range of stainless steel suspension systems we offer unlimited scope for individualisation.

All state-of-the-art BERNSTEIN suspension systems are characterised by variable layout, advanced design and ease of installation.

Integrated diversity

Modern industrial design, perfected ergonomics and a host of combinable components create innovative system solutions based on modular principles. BERNSTEIN standard enclosures with quick-release fasteners, flexible internal articulated hinges and international approvals give our customers ample scope in the choice of enclosures best suited for their specfic application.





Services and standards

- Bespoke solutions
- Lower costs thanks to all-encompassing system
- Supply of complete systems and their project integration
- System components procured by BERNSTEIN
- Compliance with applicable product and industrial standards
- International approvals

System solutions/ATEX

Standard enclosures

Control enclosures



Type Page

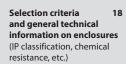
BERNSTEIN 12 System solutions Comprehensive range of services from BERNSTEIN



ATEX 14
ATEX-approved products

ATEX-approved products for potentially explosive atmospheres

enclosure systems





Aluminium enclosures 26
Type CA

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High mechanical loading capacity

- High corrosion resistance
- IP 66

Type

- Accessories
- Assembly, aluminium enclosures



Polycarbonate enclosures 46 Type CT

- Medium mechanical loading capacity
- Conditional suitability, for outdoor use
- Accessories
- Assembly, polycarbonate and ABS enclosures

ABS enclosures Type CT

- Low mechanical loading capacity
- Limited suitability for outdoor use
- IP 65
- Accessories



Polyester enclosures 66 Type CP

- High mechanical loading capacity Very high corrosion
- resistance
 Excellent suitability for
- outdoor use
 IP 66
- IP 66 • Accessories





Control enclosures 74 Type CC-5000 neXt

- Modular aluminium enclosure concept
- Direct installation of commercially avlb. controllers
- Different front panel installation options
- Customer-specific dimensions



Control enclosures 78 Type CC-4000/CC-4000 SL

- Modular aluminium enclosure concept
- Direct installation of commercially avlb. controllers
- Different front panel installation options
- Customer-specific dimensions
- Stand



Light-duty control 82 enclosures Type CC-3000

- Modular, flat aluminium slimline concept
- Direct installation of commercially avlb. controllers
- Different front panel installation options
- Customer-specific dimensions

Accessories 86
Control enclosures

Checklists 94

Workstation

Type Page



Industrial 104 workstation Type WS-6000

- Easy-to-service design
- Flexible concept for tailor-made solutions

Suspension systems

Туре

Selection criteria 110 for suspension systems

Page



Light-duty 112 suspension system Type CS-2000 SL 45/60

- Modular suspension system concept in two colours for light mechanical loads
- Alum. connecting sections with/without cable duct
- Installation openings at joints

CS-3000 Family 12:



Light-duty 1 suspension system Type CS-3000 neXt

- Modular suspension system concept for light mechanical loads
- Anodised aluminium tubing as connecting element and cable duct
- Installation openings at joints



Medium-duty 136 suspension system Type CS-3000

- Modular suspension system concept for medium mechanical loads
- Anodised aluminium tubing as connecting element and cable duct
- Installation openings at joints

Accessories 151 CS-3000 Family



Heavy-duty 152 suspension system Type CS-2000 System 80

- Modular suspension system concept for heavy mechanical loads
- Steel tubing as connecting element and cable duct
- Installation openings at joints

Accessories for 162 suspension CS-2000 SL and System 80

Stainless steel range



Type Page

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Stainless steel enclosure CC-800

- Material 1.4301
- Protection class IP 65
- Modern design



Suspension system for 168 light to medium loads Type CS-480 NR

- Material 1.4305
- Protection class IP 66



Suspension system 176 for medium to high loads Type CS-600 NR

- Material 1.4305
- Protection class IP 66
- Modular system

BERNSTEIN System Solutions

Expertise from under one roof

Comprehensive range of services from BERNSTEIN enclosure systems

BERNSTEIN specialises in products that reliably protect your technical equipment from damage, the environment or unauthorised access.

Bespoke, individually designed system solutions are based on tried-and-tested enclosure technology combined with BERNSTEIN suspension systems.

Tailored wiring and the installation of components can now be integrated directly in the expanded enclosure production process.

Starting with the preassembly of mounting rails and terminals through cable configuration to component mounting and complete wiring in the enclosure.

BERNSTEIN – Your solution specialist.

New system integration approaches such as the installation and preassembly of:

- Power supply systems
- Operating and control elements
- Membrane keypads
- Displays, power supply and data cables
- I/O assemblies
- Ethernet components
- PLC/IPC solutions of all renowned manufacturers



Your benefits:

- Solution specifically tailored to customer requirements
- System solution phased directly into production process
- Compliance with applicable product and industrial standards (ATEX, IP-classes)
- Administration expenditure and costs reduced by
 - Purchase and stock keeping of components by BERNSTEIN
 - No residual quantities of individual components
 - Use of standard components
 - No costs incurred for assembling individual components – delivery of complete systems
 - Acceptance of part projects by BERNSTEIN, therefore, reduced assembly and component mounting costs
- Integration of BERNSTEIN switch and sensor systems
- System components procured by BERNSTEIN



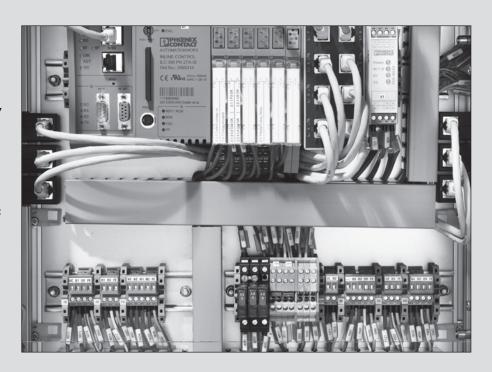


Combination of BERNSTEIN enclosures and customer technologies

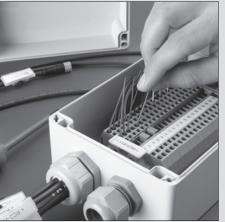
As a solution specialist, BERNSTEIN has available core expertise in mechanical applications and a comprehensive range of tools to suit the most diverse configuration requirements.

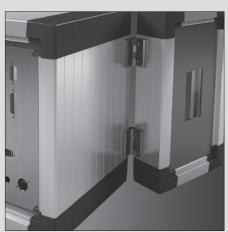
- Customised enclosure modifications, freely selectable dimensions and configurations created by:
 - -Holes
 - -Threads
 - Apertures
 - Pre-punched blanks
- Preassembly, mounting and wiring of:
 - Mounting panels and support railsHinges and mounting brackets

 - Terminals and screwed cable glands
 - Circular connectors
- Individual powder coating also available in special colours in own production process















ATEX-approved products for potentially explosive atmospheres

- Exe, Ex ia and Ex e\ia terminal boxes made from polyester and aluminium
- Ex d limit switches, cable pull switches and foot switches
- Ex mb/Ex tb magnetic switches















Terminal boxes and empty enclosures

Only materials that correspond to the temperature range T6 required for Ex enclosures are used in these enclosures and components.

The minimum type of protection rating of all enclosures and screw connections is IP 64, other protection classes available on request.

The latching devices on the enclosures are optionally available as captive screw connections.

Various CA versions are available with flange plates.

All built-in components must conform to the relevant approvals.

Momentary contact, cable pull and footswitches

An Ex d-certified switching element lies at the core of these Ex-approved switches

It is mounted in the corresponding switch enclosures. The mechanical actuator and its installation are certified separately.

The approval of additional actuators and switch enclosures from other series is possible on request.

All switches and momentary contact switches feature one NO contact and one NC contact.

Magnetic switches

The magnetic switches are fitted at the factory with an up to 7 m long connection cable.

The cable is permanently connected to the enclosure and is part of the approval.

All sensors are certified for a maximum ambient temperature of +60°C.

BERNSTEIN-ATEX experts' services:

- Approval of a stainless steel enclosure with freely definable dimensions
- Approvals assistance for plant operators
- Approval of switching and control elements in all enclosures
- Approval of plug-in devices in all enclosures
- Component mounting and wiring of enclosures according to customer specifications
- Training courses for planners and plant operators
- Cross-product system solutions
- Customer-specific development and project management on request
- GOST (Russia) and NEC (North America) approvals on request

Explosion protection at a glance



| ⟨£x⟩ | II2G | Ex | ia | IIC | T6 | TÜV | 2008 | ATEX | 1234 | _ |
|---|----------------------|---|--|--------------------|-----------------------------|----------------------|-------------------|--------------------------------|-------------------------|---------------------------|
| Type approval in accordance RAL 94/9/EG | Application | Explosion protection | Type of protection | Device group | Tempera- ture class | Inspection authority | Year | As per Directive 94/9/EG | Consecuti- ve number | Additional conditions |
| Types of prote | ction for gas-ex | cplosion hazaro | dous areas | | | | | | | |
| Symbol | | Type of protec | tion | | | | | | Standard | |
| [2*] | Ex "d" | Flameproof er Switching dev | capsulation ices, motors, tra | nsformers etc. | | | | | IEC60079-1 | |
| | Ex"p" | Control cabine px = Use in Zo py = Use in Zo | Pressurised encapsulation Control cabinets ox = Use in Zone 1, 2 oy = Use in Zone 1, 2 oz = Use in Zone 2 | | | | | | IEC60079-2 | |
| 台灣 | Ex"q" | Powder-filled of Transformers, | | | | | | | IEC60079-5 | |
| [d*] | Ex"o" | Oil immersion Transformers, | encapsulation load resistors | | | | | | IEC60079-6 | |
| 1 | Ex"e" | Increased safe Terminal boxe | , | ets, enclosures fo | or installing de | vices of other prote | ection class | | IEC60079-7 | |
| | Ex"i" | Intrinsically sa Terminal boxe ia = Use in Zor ib = Use in Zor | s, control cabine ne 0, 1, 2 | ets, sensors, mea | asurement and | control equipment | - | | IEC60079-11 | |
| | | Intrinsically sa | fe systems | | | | | | IEC60079-25 | |
| | Ex "n" | Non sparking Systems that, | due to their desi | ign, cannot spar | k | | | | IEC60079-15 | |
| [2*] | Ex"m" | ma = Use in Zo | ncapsulation ommand and signalling devices, sensors, display/indicator devices na = Use in Zone 0, 1, 2 nb = Use in Zone 1, 2 | | | | | IEC60079-18 | | |
| | Ex"op" | op pr = Protec | on cally safe optica ted optical radia own optical radi | ation | | | | | IEC60079-28 | |
| IP Protection C | lasses | | | | | | | | | |
| IP 1 st digit | Contact | | Foreign bodie | S | IP 2 nd digit | Water | | Max. permis | sible surface | Tempera- |
| 0 | No protection | | No protection | | 0 | No protection | | temperature | | ture classes for gases |
| 1 | Large body pa | rts | Solid object > | 50 mm | 1 | Water dripping ve | ertically | | | |
| 2 | Finger | | Solid object > | 12.5 mm | 2 | Water dripping at | angle up to 15° | 450° | | T1 |
| 3 | Tool > 2.5 mm | | Solid object > | 2.5 mm | 3 | Water sprayed at a | n angle up to 60° | 300° | | T2 |
| 4 | Tool > 1 mm | | Solid object > | 1 mm | 4 | Sprayed water 36 | 0° | 200° | | T3 |
| 5 | Complete prof | tection | Dust accumul | ation | 5 | Water jet 360° | | 135° | | T4 |
| 6 | Complete prot | tection | Dust infiltration | on | 6 | Strong water jet | 360° | 100° | | T5 |
| | | | | | 7 | Temporary subm | ersion | 85° | | T6 |
| (see Page 19 for | r further informa | ation on IP Class | es) | | 8 | Submersion | | Explosion g | roups for gase | |
| Device group I | Mining | | | | | | | Group | Typical gas | lgnition energy |
| IM1 | Safety provide | d by 2 safety me | easures, 2 faults | | | | | I | Methane | 280 μJ |
| I M2 | Shutdown on | occurrence of ex | plosive atmosp | here | | | | IIA | Propane | > 180 µJ |
| Device group I | I All potentially | explosive atm | ospheres exce | ot mining | | | | IIB | Ethylene | 60180 μJ |
| II 1 | Zone 0 | Zone 20 | Safety provide | ed by 2 safety m | easures, 2 faul | ts | | IIC | Hydrogon | - 60 · · · · |
| II 2 | Zone 1 | Zone 21 Safety in the event of frequent equipment malfunctions, 1 fault | | | | IIC IIC | Hydrogen | < 60 µJ | | |
| II 3 | Zone 2 | Zone 22 | Zone 22 Safety in trouble-free operation | | | | Additional | conditions | | |
| Zone categorie | es, device grou | p II | | | | | | - | No restriction | |
| Hazard | | | Gas as per IEC | | Dust as per | EC | | X | Special condi | tions |
| Permanent or fr | requent | | Zone 0 | | Zone 20 | | | | Special condi | |
| Occasional | | | Zone 1 | | Zone 21 | | | | Component o | ertification |
| Rare, temporary no longer than | y 30 min per year | | Zone 2 | | Zone 22 | | | U | parts certifica | |

Blank enclosures for use in potentially explosive atmospheres

ATEX-U certified standard aluminium CA enclosures

BERNSTEIN CA enclosures have been tested by an internationally recognised and certified inspection authority and certified through type approval testing for use in areas with potentially explosive dust and gas atmospheres. Used as terminal and control enclosures, the aluminium pressure die-cast enclosures are designed to accept corresponding mechanical and electrical equipment. The enclosures come with operating instructions, type identification plate, EU Type Approval Certificate and CE Declaration of Conformity. Either an EPDM or silicone seal can be used. The enclosures can be fitted at the factory with external hinges.

| External dimensions | Туре | Art. No. with silicone seal | Art. No. with EPDM seal |
|---------------------|--------|-----------------------------|-------------------------|
| in mm | | | |
| 58 x 64 x 36 | CA-060 | 1064005000 | 1064000000 |
| 98 x 64 x 36 | CA-080 | 1084005000 | 1084000000 |
| 150 x 64 x 36 | CA-100 | 1104005000 | 1104000000 |
| 75 x 80 x 57 | CA-130 | 1134005000 | 1134000000 |
| 125 x 80 x 57 | CA-150 | 1154005000 | 1154000000 |
| 175 x 80 x 57 | CA-170 | 1174005000 | 1174000000 |
| 250 x 80 x 57 | CA-190 | 1194005000 | 1194000000 |
| 122 x 122 x 80 | CA-210 | 1214005000 | 1214000000 |
| 122 x 122 x 90 | CA-215 | 1214005050 | 1214000050 |
| 122 x 122 x 80 | CA-220 | 1224005000 | 1224000000 |
| 220 x 122 x 80 | CA-230 | 1234005000 | 1234000000 |
| 220 x 122 x 90 | CA-235 | 1234005050 | 1234000050 |
| 220 x 122 x 80 | CA-240 | 1244005000 | 1244000000 |
| 360 x 122 x 80 | CA-250 | 1254005000 | 1254000000 |
| 160 x 160 x 90 | CA-270 | 1274005000 | 1274000000 |
| 160 x 160 x 90 | CA-280 | 1284005000 | 1284000000 |
| 260 x 160 x 90 | CA-290 | 1294005000 | 1294000000 |
| 260 x 160 x 90 | CA-300 | 1304005000 | 1304000000 |
| 360 x 160 x 90 | CA-310 | 1314005000 | 1314000000 |
| 560 x 160 x 90 | CA-330 | 1334005000 | 1334000000 |
| 200 x 230 x 110 | CA-350 | 1354005000 | 1354000000 |
| 200 x 230 x 180 | CA-360 | 1364005000 | 1364000000 |
| 280 x 230 x 110 | CA-370 | 1374005000 | 1374000000 |
| 330 x 230 x 110 | CA-380 | 1384005000 | 1384000000 |
| 330 x 230 x 180 | CA-390 | 1394005000 | 1394000000 |
| 400 x 230 x 110 | CA-400 | 1404005000 | 1404000000 |
| 600 x 230 x 110 | CA-420 | 1424005000 | 1424000000 |
| 402,5 x 310 x 110 | CA-450 | 1454005000 | 1454000000 |
| 402,5 x 310 x 180 | CA-460 | 1464005000 | 1464000000 |
| 600 x 310 x 110 | CA-470 | 1474005000 | 1474000000 |
| 600 x 310 x 180 | CA-480 | 1484005000 | 1484000000 |

Technical Data:

- Protection class depending on type of seal IP 66 to IEC 60529
- Identification
 - ⓐ II 2G Ex e IIC Gb
 - ⟨□⟩ II 2D Ex tD A21 IP 65 IIIC Db
- Impact strength > 7 Joules
- Enclosure colour RAL 7001 (silver grey)
- Powder-coating corrosion protection



ATEX-U certified standard polyester CP enclosures

BERNSTEIN CPG and CPS enclosures have been tested by an internationally recognised and certified inspection authority and certified through type approval testing for use in areas with potentially explosive dust and gas atmospheres. Used as terminal and control enclosures, the glass-fibre reinforced polyester enclosures are designed to accept corresponding mechanical and electrical equipment. The enclosures come with operating instructions, type identification plate, EU Type Approval Certificate and CE Declaration of Conformity. Either an EPDM or silicone seal can be used. The enclosures can be fitted at the factory with external hinges.

| External dimensions in mm | Туре | Art. No. with silicone seal | Art. No. with EPDM seal |
|---------------------------|--|-----------------------------|----------------------------|
| 80 x 75 x 55 | CP-140 | 4144005000 | 4144000000 |
| 80 x 75 x 75 | CP-145 | 4144005050 | 4144000050 |
| 110 x 75 x 55 | CP-150 | 4154005000 | 4154000000 |
| 110 x 75 x 75 | CP-155 | 4154005050 | 4154000050 |
| 160 x 75 x 55 | CP-170 | 4174005000 | 4174000000 |
| 160 x 75 x 75 | CP-175 | 4174005050 | 4174000050 |
| 190 x 75 x 55 | CP-190 | 4194005000 | 4194000000 |
| 190 x 75 x 75 | CP-195 | 4194005050 | 4194000050 |
| 122 x 120 x 90 | CP-220 | 4224005000 | 4224000000 |
| 220 x 120 x 90 | CP-240 | 4244005000 | 4244000000 |
| 160 x 160 x 90 | CP-280 | 4284005000 | 4284000000 |
| 260 x 160 x 90 | CP-300 | 4304005000 | 4304000000 |
| 360 x 160 x 90 | CP-320 | 4324005000 | 4324000000 |
| 360 x 160 x 90 | CP-320 with external articulated hinge | 4324006000 | 4324001000 |
| 560 x 160 x 90 | CP-330 | 4334005000 | 4334000000 |
| 560 x 160 x 90 | CP-330 with external articulated hinge | 4334006000 | 4334001000 |
| 255 x 250 x 120 | CP-370 | 4374005000 | 4374000000 |
| 400 x 250 x 120 | CP-400 | 4404005000 | 4404000000 |
| 400 x 250 x 120 | CP-400 with external articulated hinge | 4404006000 | 4404001000 |
| 400 x 405 x 120 | CP-450 | 4454005000 | 4454000000 |
| 400 x 405 x 120 | CP-450 with external articulated hinge | 4454006000 | 4454001000 |
| 400 x 405 x 165 | CP-460 | 4464005000 | 4464000000 |
| 400 x 405 x 165 | CP-460 with external articulated hinge | 4464006000 | 4464001000 |

| Туре | Art. No. with silicone seal | Art. No. with EPDM seal |
|---|-----------------------------|----------------------------|
| CPS-140 | 5144005000 | 5144000000 |
| CPS-145 | 5144005050 | 5144000050 |
| CPS-150 | 5154005000 | 5154000000 |
| CPS-155 | 5154005050 | 5154000050 |
| CPS-170 | 5174005000 | 5174000000 |
| CPS-175 | 5174005050 | 5174000050 |
| CPS-190 | 5194005000 | 5194000000 |
| CPS-195 | 5194005050 | 5194000050 |
| CPS-220 | 5224005000 | 5224000000 |
| CPS-240 | 5244005000 | 5244000000 |
| CPS-280 | 5284005000 | 5284000000 |
| CPS-300 | 5304005000 | 5304000000 |
| CPS-320 | 5324005000 | 5324000000 |
| CPS-320 with external articulated hinge | 5324006000 | 5324001000 |
| CPS-330 | 5334005000 | 5334000000 |
| CPS-330 with external articulated hinge | 5334006000 | 5334001000 |
| CPS-370 | 5374005000 | 5374000000 |
| CPS-400 | 5404005000 | 5404000000 |
| CPS-400 with external articulated hinge | 5404006000 | 5404001000 |
| CPS-450 | 5454005000 | 5454000000 |
| CPS-450 with external articulated hinge | 5454006000 | 5454001000 |
| CPS-460 | 5464005000 | 5464000000 |
| CPS-460 with external articulated hinge | 5464006000 | 5464001000 |

Technical Data:

- Protection class depending on type of seal IP 66 to IEC 60529
- Identification
 - ⟨Ex⟩ II 2G Ex e IIC Gb
 - (II 1D Ex ta IIIC Da IP 66 (silicone seal)
- Up to CP 230 tested at 4 Joules
- As from CP 240 tested at 7 Joules
- Operating temperature depending on type of seal –55 °C to +100 °C
- Enclosure colour RAL 7000 (squirrel grey) CPG
- Enclosure colour RAL 9005 (jet black) CPS

General Technical Information

Enclosure selection criteria

The following questions are designed to help you find the optimum enclosure for your specific application. In addition to the given criteria, your individual requirements are also of decisive importance.

1. How big should the enclosure be?

- PC-board size
- Number of terminals
- Number of screwed cable glands per side
- etc.

2. What ambient conditions should be taken into account?

- Moisture
- Climatic conditions
- Temperature
- Chemical exposure in the form of cleaning agents, oils, lubricants, etc.
- Electromagnetic compatibility
- etc.

3. What mechanical loads will the enclosure be subjected to?

- Impact
- Pressure
- Bending
- etc.

4. What additional features are required?

- Special coating:
 Special colour, special finish
 (chromalizing, EMC protective paint, etc.), screenprint and labels etc.
- Connectors
- Screw connections (number per side)
- Inspection window
- Preassembly with mounting panel, mounting rails, terminals, external and internal articulated hinges, etc.
- etc.

5. What other components can be installed for you?

- Power supply systems
- Operating and control elements
- Membrane keypads
- Displays, power supply and data cables
- I/O assemblies
- Ethernet components
- PLC/IPC solutions of all renowned manufacturers
- etc.

You will find further details in Section "System Solutions" from Page 12 onwards.

6. Which type of approval do you need?

You find all current approvals on www.bernstein.eu

7. What else can we install for you?

Talk to us. We will help you realise your challenge.



Definition of Protection Classes in accordance with IEC 60529, VDE 470 T 1

The protection class of an enclosed device denotes the degree of protection. The degree of protection includes the protection of persons against contact with parts under voltage and the protection of equipment against the infiltration of foreign bodies and water. BERNSTEIN standard enclosures largely correspond to protection class IP 65.

Protection class designation

In accordance with DIN EN 60529 the protection class designation consists of a two-digit code.

Meaning of 1st digit:

Protection class against contact and infiltration of foreign bodies

Meaning of 2nd digit:

Protection class against infiltration of water

Example: Protection class IP 65

1. Digit (6):

Complete protection against contact with components under voltage or with internal moving parts = protection against dust infiltration

2. Digit (5):

A water jet directed from all directions at the enclosure must not have damaging effects = protection against water jets (hoseproof)

| Foreign bo | Foreign body protection | | | Moisture protection | | | |
|-----------------------|---|--|-----------------------|--|--|--|--|
| 1 st digit | Meaning | Explanation | 2 nd digit | Meaning | Explanation | | |
| IP0X | No protection | | IPX0 | No protection | | | |
| IP1X | Protection against foreign bodies with a diameter of 50 mm or greater | Solid object (sphere, Ø 50 mm) must not fully penetrate | IPX1 | Protection against dripping water | Vertically falling droplets must not have a damaging effect | | |
| IP2X | Protection against foreign bodies with a diameter of 12.5 mm or greater | Solid object (sphere, Ø 12.5 mm) must not fully penetrate | IPX2 | Protection against dripping water when the enclosure is tilted at an angle of up to 15° | Vertically falling droplets must not have a damaging effect when the enclosure is tilted at an angle of up to 15° either side of the perpendicular | | |
| IP3X | Protection against foreign bodies with a diameter of 2.5 mm or greater | Solid object (sphere, Ø 2.5 mm) must not fully penetrate | IPX3 | Protection against spray water | Water sprayed at an angle of up to 60° either side of the perpendicular must not have a damaging effect | | |
| IP4X | Protection against foreign bodies with a diameter of 1 mm or greater | Solid object (sphere, Ø 1 mm) must not fully penetrate | IPX4 | Protection against splash water | Water sprayed against the enclosure from any direction must not have a damaging effect | | |
| IP5X | Protection against harmful dust deposits | Dust penetration is not completely prevented. However, the amount of penetration must not impair the function or safety of the device. | IPX5 | Protection against hose water | Water sprayed in jet from against the enclosure from any direction must not have a damaging effect | | |
| IP6X | Protection against dust penetration, dustproof | No penetration of dust at a negative pressure of 20 mbar in the enclosure | IPX6 | Protection against strong hose water | Water sprayed in strong jet from against the enclosure from any direction must not have a damaging effect | | |
| | | | IPX7 | Protection against the effect when temporarily submerged in water | Water must not enter in harmful quantities when the enclosure is submerged under standardised pressure and time conditions | | |
| | | | IPX8 | Protection against the effects of continuous immersion in water | Water may not ingress in a volume that would cause harmful effects when the shell is continuously submerged in water under conditions agreed between manufacturer and user. The conditions must, however, be more difficult than those for code number IPX7. | | |
| | | | IPX9K | Protection against water during high pressure/steam jet cleaning (as per DIN EN 40050, Part 9) | Water sprayed at greatly increased pressure against the enclosure from any direction must not have a damaging effect | | |

General Technical Information

Mechanical strength

Selection is based on the corresponding properties of the material to be used. The table below provides an overview of the main material properties of aluminium, polycarbonate, ABS, polyester and stainless steel.

| Material property | Standard | Unit | Aluminium | Polycarbonate | ABS | Polyester | Stainless steel |
|--------------------------------------|-----------|-----------------------|-----------|--------------------|----------------------|----------------------|-----------------|
| Density | DIN 53479 | g/cm³ | 2.65 | 1.2 | 1.05 | 1.8 | 7.9 |
| Impact resistance | DIN 53453 | mJ/mm² | 150 – 300 | 65 | 60 | 80 | |
| Toughness | DIN 53453 | mJ/mm² | 90 – 200 | 20 | 10 | 4 | |
| Tensile strength | DIN 53455 | N/mm² | 180 – 300 | 65 | 43 | 45 | 500 – 700 |
| Elongation of break | DIN 53455 | % | 60 – 90 | 90 | 20 | 20 | < 60 |
| Modulus of elasticity (bending test) | DIN 53457 | N/mm² | 75000 | 2300 | 2100 | 6500 | 200000 |
| Flexural stress at given strain | DIN 53452 | N/mm ² | | 95 | 90 | 100 | |
| Flammability | UL 94 | Class | | V 2 | НВ | V 0 | |
| Volume resistivity | DIN 53482 | Ohm x cm | | 10 ¹⁵ | 10 ¹³ | 3 x 10 ¹⁴ | |
| Surface resistance | DIN 53482 | Ohm x cm | | ≥ 10 ¹⁵ | 4 x 10 ¹⁴ | > 1012 | |
| Dielectric strength | DIN 53481 | kV/mm | | 25 – 40 | 24 | 25 – 40 | |
| Thermal conductivity (20°C) | DIN 52612 | W/mK | 120 – 160 | 0.21 | 0.18 | 0.25 | 16.3 |
| Electrical conductivity (20°C) | | m/Ohm mm ² | 15 – 22 | | | | |



Chemical resistance

The table below provides an overview of the chemical resistance of BERNSTEIN aluminium, polycarbonate, ABS, polyester and stainless steel enclosures to chemicals commonly used. The specified values are reference values relating to different concentrations and ambient temperatures that have varying influences on materials. This also applies to simultaneous exposure to several chemicals. Corresponding trials are therefore recommended.

All tests were carried out at room temperature. The chemical resistance may change in combination with different media. Therefore, no responsibility can be accepted for the correctness of this information.

| Chemical | ABS | Polycarbonate | Polyester | Aluminium | Stainless steel |
|--|---------|---------------|-----------|-----------|-----------------|
| Acetone | _ | _ | - | + | + |
| Formic acid | 40% | - | + | 0 | + |
| Ammonia | 25% | - | - | + | |
| Benzine | - | 0 | + | + | + |
| Benzene | - | - | + | + | + |
| Brake fluid | 0 | - | + | | (+) |
| Butane | + | + | + | + | (+) |
| Butanol | | | + | | (+) |
| Calcium chloride | + | + | + | + | 0 |
| Chlorobenzene | - | - | + | + | + |
| Diesel oil | + | 0 | + | | (+) |
| Acetic acid | 25% | 10% | 5% | + | + |
| Formaldehyde | 30% | | 30% | + | + |
| Freon 113 | - | + | + | | |
| Fruit juice | + | + | + | | + |
| Glycerine | + | 0 | + | + | + |
| Fuel oil | 0 | 0 | + | + | + |
| Hydraulic oil | | + | + | | + |
| Caustic potash solution | 50% | - | - | | |
| Potassium chloride | | + | + | 0 | 0 |
| Potassium hydroxide | <= 50 % | | 5% | _ | + |
| Linseed oil | + | + | + | + | + |
| Methanol | + | _ | + | + | + |
| Methylene chloride | - | - | + | + | |
| Lactic acid | 80% | + | + | + | 0 |
| Mineral oils | + | + | + | | + |
| Engine oils | + | + | + | | + |
| Sodium carbonate | + | + | 10% | 0 | + |
| Sodium chloride | + | + | + | 0 | + |
| Sodium hydroxide | + | | 5% | + | + |
| Caustic soda | 50% | _ | 40% | | |
| Nitric acid | - | 10% | 10% | + | + |
| Hydrochloric acid | 0 | 20% | + | + | _ |
| Lubricating oil | | + | + | + | + |
| Carbon disulphide | _ | _ | _ | + | + |
| Sulphuric acid | 50% | 50% | 10% | 0 | + |
| Soap solution | | 0 | + | | |
| Detergent | | + | | | (+) |
| Turpentine oil | | 0 | + | | + |
| Carbon tetrachloride | _ | _ | + | + | + |
| Toluene | _ | _ | + | + | |
| Trichloroethylene | _ | _ | + | + | + |
| Water (distilled water, river water, tap water, sea water) | + | + | + | | + |
| Tartaric acid | + | + | + | | + |
| Xylene | _ | _ | + | + | + |
| Zinc sulphate | + | + | + | 0 | + |
| Citric acid | + | 10% | + | + | 0 |
| +: Resistant to all concentrations | | . 370 | | | |

- +: Resistant to all concentrations
- %: Resistant to max. % concentrations
- o: Conditionally resistant
- Not resistant
- □: No data
- (): Estimated value

General Technical Information

Chemical resistance of enclosure seals

The following table provides an overview of the chemical resistance of enclosure seals. The specified values are reference values relating to different concentrations and ambient temperatures. This also applies to simultaneous exposure to several chemicals. Corresponding trials are therefore recommended.

All tests were carried out at room temperature. The chemical resistance may change in combination with different media. Therefore, no responsibility can be accepted for the correctness of this information.

| Chemical | CR | Silicone | EPDM | NBR | Polyurethane | PVC |
|--|-----|----------|-------|------|------------------|-------|
| Acetone | 0 | - | + | - | - | - |
| Formic acid | 0 | + | 0 | - | - | - |
| Ammonia | 10% | + | + | 0 | +/- | 0 |
| Benzine | 0 | - | - | 0 | - | + |
| Benzene | - | - | - | - | | - |
| Brake fluid | 0 | + | + | - | - | |
| Butane | + | - | - | + | | 50% |
| Butanol | + | - | + | 0 | - | 0 |
| Calcium chloride | | | + | + | + (watery) | + |
| Chlorobenzene | _ | - | - | _ | - | - |
| Diesel oil | 0 | - | - | | 0 | 0 |
| Acetic acid | _ | 0 | _ | - | +/- | + |
| Formaldehyde | | + | 40% | 0 | | - |
| Freon 113 | 0 | | | + | | |
| Fruit juice | + | + | + | 0 | | + |
| Glycerine | + | + | + | + | + | + |
| Fuel oil | 0 | 0 | - | + | | 0 |
| Hydraulic oil | | 0 | _ | 0 | | |
| Caustic potash solution | + | _ | < 50% | 0 | | + |
| Potassium chloride | + | + | + | + | | + |
| Potassium hydroxide | 0 | 0 | + | + | _ | |
| Linseed oil | + | + | 0 | + | 0 | + |
| Methanol | + | + | + | 0 | +/- | + |
| Methylene chloride | _ | - | _ | _ | _ | - |
| Lactic acid | + | | < 10% | 0 | | 10% |
| Mineral oils | 0 | 0 | _ | + | +/- | + |
| Engine oils | 0 | + | - | + | | + |
| Sodium carbonate | | + | + | + | | |
| Sodium chloride | + | + | + | + | + | + |
| Sodium hydroxide | 50% | 0 | + | 0 | - | + |
| Caustic soda | 50% | < 10% | + | 0 | | 60% |
| Nitric acid | _ | < 10% | _ | _ | _ | < 30% |
| Hydrochloric acid | 0 | < 10% | + | _ | o < 10% | < 20% |
| Lubricating oil | 0 | + | 0 | + | | + |
| Carbon disulphide | _ | _ | _ | _ | | _ |
| Sulphuric acid | 50% | 0 | _ | _ | – (concentrated) | < 60% |
| Soap solution | | + | | + | + | 0 |
| Detergent | 0 | + | 0 | + | | |
| Turpentine oil | ů | - | - | 0 | +/- | + |
| Carbon tetrachloride | - | _ | _ | - | - | _ |
| Toluene | _ | _ | - | - | _ | _ |
| Trichloroethylene | _ | _ | _ | _ | _ | _ |
| Water (distilled water, river water, tap water, sea water) | + | + | + | 80°C | + | 40°C |
| Tartaric acid | 0 | + | + | + | | + |
| Xylene | _ | - | - | - | _ | _ |
| Zinc sulphate | + | + | + | + | | + |
| Citric acid | + | + | + | + | + | 10% |

^{+:} Resistant to all concentrations

^{%:} Resistant to max. % concentrations

o: Conditionally resistant

^{-:} Not resistant

^{□:} No data

^{+/-:} Suitability strongly influenced by the specific substance or concentration



Quality manufacturing guarantee

Reliable, flexible, personal: BERNSTEIN System Solutions

Outsourcing is a matter of trust. You need a competent service provider who you can rely on, who is flexible and who is always prepared to listen.

BERNSTEIN is your dependable partner.

With more than 30 years of experience to look back on, we offer comprehensive know-how in enclosure technology and corresponding applications.

Take advantage of the BERNSTEIN system solution service for enclosures with personal on-site support.

Benefit from all the advantages offered by BERNSTEIN!

You will find further information on system solutions on Page 12.

Our range of services for standard enclosure modifications:

- Standard enclosures perfectly tailored to your requirements
- Mechanical machining (even complicated contours) by CNC machining centres
- RoHS-compliant surface treatment for use in corrosive environments
- Special coating in accordance with RAL specification
- Screen print or engraving of enclosure surface
- Special coating and conductive seal for HF-proof version
- Installation of individual components from the BERNSTEIN range of accessories as well as other customer-specific components
- Electrical wiring of components according to your specifications

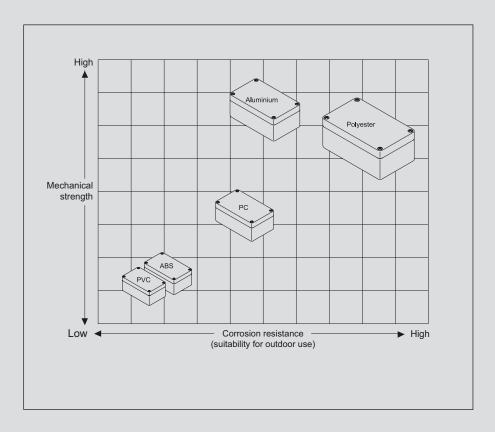
Your benefits:

- Personal advice on site
- Reduced vertical integration
- The enclosure modified to your specification can be directly incorporated in your production process

Standard Enclosures – General Technical Information

Mechanical strength of standard enclosures

The illustration shows the suitability of different enclosure materials (standard enclosure) in terms of mechanical stress and corrosive environments.



Manufacturing standard for standard enclosures

Technical information on enclosure manufacture

As an ISO-9001-2008-certified company, BERNSTEIN has defined a manufacturing standard that applies to all machining orders (unless other requirements are specified).

Dimension tolerances

When preparing details for enclosure machining (see following drawings, showing orientation of enclosure when set up for machining), tolerances used for the first machining operation on each set up, are according to ISO 2768-mH.

If other dimensions or reference edges are used, the following maximum general tolerances are applicable for the first machining operation on each enclosure per set up (see table below).

Tolerances between further machining operations compared to each other can be limited to ± 0.1 mm.

General tolerances Standard range

| Material/enclosure type | General tolerance |
|-------------------------|-------------------|
| CA-020 to CA-480 | |
| Cast aluminium | DIN 1688 |
| CT-50 to CT-91 | |
| PC/ABS | DIN 16901 |
| CP-140 to CP-460 | |
| Polyester mats | DIN 16901 |

Minimum purchase quantities

In order to keep enclosure machining as cost-effective for the user as possible, the following minimum purchase quantities are suggested:

| Designation | Minimum purchase quantity |
|---------------|---------------------------|
| CA-020 CA-080 | 20 pieces |
| CA-100 CA-190 | 10 pieces |
| CA-210 CA-310 | 10 pieces |
| CA-330 CA-480 | 5 pieces |
| CP-140 CP-195 | 20 pieces |
| CP-220 CP-320 | 10 pieces |
| CP-330 CP-460 | 5 pieces |
| CT-50 CT-76 | 20 pieces |
| CT-78 CT-89 | 10 pieces |

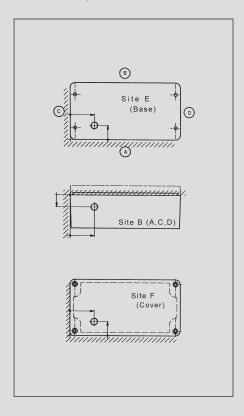
These quantities should be regarded as the minimum, if the customised enclosures are to be produced economically. Production includes mechanical machining, special coating, screen-printing, engraving or assembly of accessories. BERNSTEIN will of course be pleased to advise you.



Reference edges for manufacturing standard

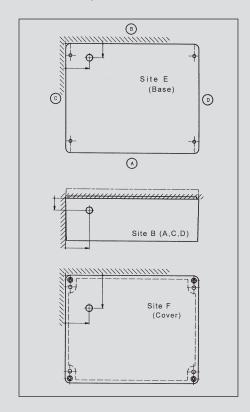
Series

CA-020 to CA-240, CA-270 to CA-300 CT-50 to CT-82, CP-140 to CP-300



Series

CA-250, CA-310 to CA-480 CT-84 to CT-91, CP-320 to CPS-590



The BERNSTEIN quick-release fastener and flexible internal articulated hinge

Invented and patented by BERNSTEIN – the quick-release fastener and its internal articulated hinge



- Reduced time and costs
- Easy to use

1. Press and turn by 90°

• Easy opening and closing

2. Simple connection check

No need for mechanical testing

3. Safe

 Quick-release fastener is tensioned and snaps firmly in. Cover will not open when subjected to shaking and vibration.

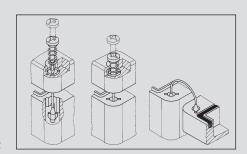
4. Effortless mounting

 Self-latching and locking function ensures straightforward mounting or retrofit.

Quick-release fastener/internal articulated hinge – for securing covers to enclosure bodies.

- Subsequent mounting possible without the need for mechanical machining.
- Strain relief and captive mounting of the cover are guaranteed.

The flexible internal articulated hinges can be easily fitted in the enclosures without the need for mechanical machining and reliably hold the enclosure cover after opening. The hinges provide effective strain relief and captive mounting of the enclosure cover



Aluminium Enclosure Series CA

BERNSTEIN aluminium enclosures have a well proven record of success in encapsulating electrical, electronic or pneumatic components, while also being ideally suited for applications in potentially explosive atmospheres.

All enclosures comply with protection class IP 66 according to DIN EN 60529 (optionally IP 67).

BERNSTEIN aluminium enclosures feature earthing screws (copper-plated, M4 or M6) in the body and in the cover for connecting PE conductors. The surfaces under the earthing screws are left blank. The screws for mounting the covers on BERNSTEIN enclosures are made from stainless steel and are held captive by the self-latching hinge integrated in the cover. The protection class (on the standard enclosure) is ensured by a factory-fitted seal. BERNSTEIN aluminium enclosures are finished as standard in RAL 7001 (silver grey).

BERNSTEIN uses pressure die-casting or gravity die-casting moulds to manufacture the aluminium enclosures.

The mounting flanges or even the earthing socket on the inside of the enclosure can be used for mounting and securing built-in components (mounting rail, mounting plate, pc board etc.). These mounting points on the inside of the enclosures are located at different levels and in different positions. The dimensioned drawings on the following pages show the relevant positions.

Technical data

Material

Aluminium pressure die-casting or gravity die-casting

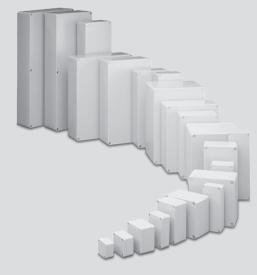
Seal

Foamed PUR seal Neoprene (CR) round cord (silicone-free), silicone round cord, EPDM round cord

Cover screws

Stainless steel, captive, cross recessed head

| Alum | nini | um en | clos | ure | | | |
|-------|------|-------|------|-----|----------------|---------|--|
| | ensi | ons/m | m | | Article number | Туре | |
| L | Х | W | Х | Н | | | |
| 50 | Х | 45 | Х | 30 | 102000000 | CA-020 | |
| 58 | Х | 64 | Χ | 36 | 106000000 | CA-060 | |
| 98 | Х | 64 | Х | 36 | 108000000 | CA-080 | |
| 150 | Х | 64 | Х | 36 | 110000000 | CA-100 | |
| 75 | Х | 80 | Х | 57 | 113000000 | CA-130 | |
| 75 | Х | 80 | Х | 57 | 114000000 | CA-140 | |
| 125 | Х | 80 | Х | 57 | 1150000000 | CA-150 | |
| 125 | Х | 80 | Х | 57 | 116000000 | CA-160 | |
| 175 | Х | 80 | Х | 57 | 117000000 | CA-170 | |
| 175 | Х | 80 | Х | 57 | 1180000000 | CA-180 | |
| 250 | Х | 80 | Х | 57 | 119000000 | CA-190 | |
| 122 | Х | 122 | Х | 80 | 121000000 | CA-210 | |
| 122 | Х | 122 | Х | 90 | 1210000050 | CA-215 | |
| 122 | Х | 122 | Х | 80 | 122000000 | CA-220 | |
| 220 | х | 122 | х | 80 | 123000000 | CA-230 | |
| 220 | Х | 122 | Х | 90 | 123000050 | CA-235 | |
| 220 | х | 122 | х | 80 | 124000000 | CA-240 | |
| 360 | Х | 122 | Х | 80 | 125000000 | CA-250 | |
| 160 | х | 160 | х | 90 | 127000000 | CA-270 | |
| 160 | Х | 160 | Х | 90 | 128000000 | CA-280 | |
| 260 | х | 160 | х | 90 | 129000000 | CA-290 | |
| 260 | Х | 160 | Х | 90 | 130000000 | CA-300 | |
| 360 | х | 160 | х | 90 | 131000000 | CA-310 | |
| 560 | Х | 160 | Х | 90 | 133000000 | CA-330 | |
| 200 | х | 230 | х | 110 | 135000000 | CA-350 | |
| 200 | Х | 230 | Х | 180 | 136000000 | CA-360 | |
| 280 | х | 230 | х | 110 | 137000000 | CA-370 | |
| 330 | х | 230 | х | 110 | 138000000 | CA-380 | |
| 330 | Х | 230 | Х | 180 | 139000000 | CA-390 | |
| 401 | х | 230 | х | 110 | 140000000 | CA-400 | |
| 600 | X | 230 | Х | 110 | 142000000 | CA-420 | |
| 402 | x | 310 | Х | 110 | 145000000 | CA-450 | |
| 402 | X | 310 | X | 180 | 146000000 | CA-460 | |
| 600 | X | 310 | X | 110 | 147000000 | CA-470 | |
| 600 | X | 310 | X | 180 | 148000000 | CA-480 | |
| _ 000 | ^ | 310 | | 100 | 17000000 | C/1 100 | |



Optionally:

- Stainless steel, captive hexagon socket head cap screws
- Sealed cover screws, steel (9 S 20 K), slot head (on request)

Coating

Standard: RAL 7001 (silver grey) Optionally:

- Special RAL colours
- Special coatings

Temperature range of CA enclosures, standard powder-coated finish

-30°C to +80°C

Please contact us for higher temperature ranges.

Temperature range of seals

Standard:

-40°C bis +100°C (PUR seal)

Alternatively:

-30°C to +80°C (Neoprene seal) -60 °C to +130°C (silicone seal)

or rather –35°C to +100°C (EPDM seal)

Protection class

IP 66 IP 67 with PUR seal

Approbations

Germanischer Lloyd UL (Label on demand) ATEX



Assembling of components



This is just a selection of possible assembly components that BERNSTEIN offers. Contact us, we can incorporate components from all leading manufacturers to satisfy your individual demand. You find further information about "System solutions" on page 12.



Mounting plates

made from galvanised steel plate (thickness: CA-060 to CA-310, CA-350 to CA-400: 1.5 mm; CA-330, CA-420 to CA-480: 2.5 mm) for versatile mounting of built-in components.



Mounting rails

conforming to Standards TS 15 or TS 32 and TS 35 made from steel; surface treated for accepting terminal blocks.



Terminal blocks

of all renowned manufacturers are used.



Earthing bars

made from galvanised steel for combining and connecting PE conductors.



External mounting brackets

made from stainless steel for mounting enclosures without opening the covers. Variable mounting in 90°-steps thanks to contour in base of enclosure.



External articulated hinges

for hinged mounting of enclosure cover. Opening range of cover approx. 155°. Cast aluminium (painted in RAL 7001 – specific colour according to enclosure specification possible).

Machining is required for mounting on enclosures.



Internal articulated hinges

for hinged mounting of enclosure cover. Opening range of cover approx. 95°. Stainless steel. Machining is required for mounting on enclosures.



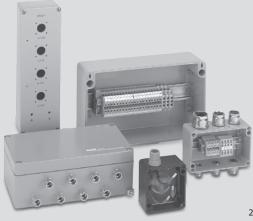
Silicon, EPDM or HF seal

with increased temperature resistance (see indications left side) or to protect sensitive electronic equipment against high-frequency radiation (HF seal). For a conductive connection, grooves and springs of the enclosure must be left blank.



Cable glands

plastic cable glands (polyamide PAGV-2, RAL 7001) or brass cable glands. Sealing element CR/NBR. Temperature range: -20° C to $+100^{\circ}$ C (see also page 71). Other cable glands on demand.



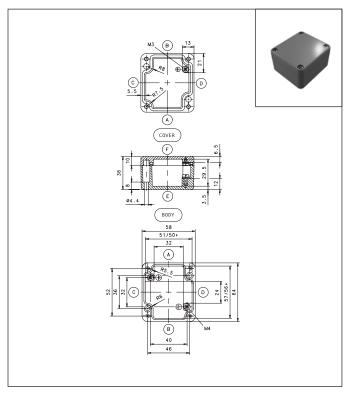
Aluminium Enclosures – Series CA

50 x 45 x 30 mm

CA-020 Aluminium enclosures

58 x 64 x 36 mm

CA-060 Aluminium enclosures



^{*} Smaller dimension at mounting plate support

| Туре | | | | | | | | | | CA- | 020 | _ |
|--------------|---|--------|---------|--------|--------|--------|-------|-------|-------|------|---------|---|
| Weight (g) | | | | | | | | | | 70 | | |
| External di | mensio | n (m | m) | | | | | | | 50 x | 45 x 30 | |
| Ordering o | Ordering data Enclosure (painted) with seal (PUR) | | | | | | | | | | | |
| with cover | 102 | 000000 | | | | | | | | | | |
| unwashed, | not pa | intec | l, loos | e acc | essor | ies | | | | 102 | 0034000 | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| Accessorie | es (indi | vidua | l part | or in | stalla | tion k | it) | | | | | |
| Mounting | plate | | | | | | | | | - | | |
| Mounting I | | | | | | | | | | - | | |
| Mounting I | rail TS 3 | 32 | | | | | | | | - | | |
| Mounting I | | 35 | | | | | | | | - | | |
| Earthing ra | il | | | | | | | | | - | | |
| External m | ountin | g bra | ckets | | | | | | | - | | |
| External ar | ticulate | ed hir | nges | | | | | | | - | | |
| Internal art | iculate | d hin | ges v | ith c | over g | guide | ** | | | - | | |
| Silicone sea | al for e | xtenc | led te | mper | ature | rang | e (by | the m | etre) | - | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| Maximum | possil | ole nu | umbe | r of t | hrea | ds | | | | | | |
| ISO M | 12 | 16 | 20 | 25 | 32 | 40 | 50 | 63 | | | | |
| Side A/B | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | |
| Side C/D | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | |
| ** Enclosur | e prep | aratio | n rec | uirec | l | | | | | | | |

^{*} Smaller dimension at mounting plate support

| Туре | • | | | | | | | | | | | | |
|----------------|--|-------|--------|--------|--------|--------|--------|--------|-------|--------------|--|--|--|
| Weight (g) | | | | | | | | | | 160 | | | |
| External dim | ensio | n (mı | m) | | | | | | | 58 x 64 x 36 | | | |
| Ordering da | ta En | closu | ıre (p | ainte | d) wit | h sea | l (PUF | () | | Part number | | | |
| with cover so | with cover screws | | | | | | | | | | | | |
| unwashed, n | inwashed, not painted, loose accessories | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| Accessories | (indiv | vidua | l part | or in | stalla | tion k | it) | | | | | | |
| Mounting pla | ite | | | | | | | | | 9511001000 | | | |
| Mounting rai | ITS 1 | 5 | | | | | | | | 982000000 | | | |
| Mounting rai | ITS 3 | 2 | | | | | | | | - | | | |
| Mounting rai | ITS 3 | 5 | | | | | | | | - | | | |
| Earthing rail | | | | | | | | | | - | | | |
| External mou | nting | g bra | ckets | | | | | | | - | | | |
| External artic | ulate | d hin | iges | | | | | | | - | | | |
| Internal artic | ulate | d hin | ges w | ith c | over o | guide | ** | | | - | | | |
| Silicone seal | or ex | ktend | led te | mper | ature | rang | e (by | the me | etre) | on request | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| Maximum p | ossib | le nu | ımbe | r of t | hrea | ds | | | | | | | |
| ISO M | 12 | 16 | 20 | 25 | 32 | 40 | 50 | 63 | | | | | |
| Side A/B | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | |
| Side C/D | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | |
| ** Enclosure | orepa | | | | | | | | | | | | |



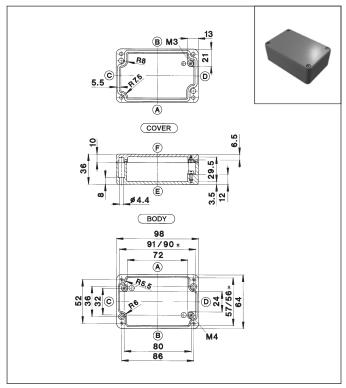
98 x 64 x 36 mm

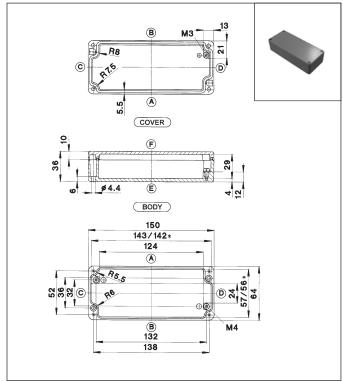
150 x 64 x 36 mm

CAD files available at www.bernstein.eu

CA-080 Aluminium enclosures

CA-100 **Aluminium enclosures**





Maximum possible number of threads

3 0 0

** Enclosure preparation required

1 0 0 0

12 16 20 25 32 40

0 0 0

0 0 0

ISO M

Side A/B

Side C/D

| Туре | CA-000 |
|---|--------------|
| Weight (g) | 220 |
| External dimension (mm) | 98 x 64 x 36 |
| Ordering data Enclosure (painted) with seal (PUR) | Part number |
| with cover screws | 1080000000 |
| unwashed, not painted, loose accessories | 1080042000 |
| | |
| | |
| | |
| | |
| | |
| | |
| Accessories (individual part or installation kit) | |
| Mounting plate | 9511002000 |
| Mounting rail TS 15 | 9820005000 |
| Mounting rail TS 32 | - |
| Mounting rail TS 35 | - |
| Earthing rail | - |
| External mounting brackets | _ |
| External articulated hinges | - |
| Internal articulated hinges with cover guide** | - |
| Silicone seal for extended temperature range (by the metre) | on request |
| | |
| | |
| | |

50 63

CA-080

| * Smaller | dimension | at mounting | plate support |
|-----------|-----------|-------------|---------------|

| Туре | | | | | | | | | | CA-100 | |
|-----------------------------------|---------|--------|------------|--------|--------|--------------------|---------------|-------|-------|---------------|--|
| Weight (g) | | | | | | | | | | 330 | |
| External dim | ensi | on (m | m) | | | | | | | 150 x 64 x 36 | |
| Ordering da | ita Ei | nclosu | ıre (p | ainted | d) wit | h seal | (PUF | ?) | | Part number | |
| with cover so | rews | | 1100000000 | | | | | | | | |
| unwashed, n | ot pa | | 1100053000 | | | | | | | | |
| | | | | | | | | | | | |
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| | | | | | | | | | | | |
| Accessories | (indi | vidua | l part | or ins | stalla | tion k | it) | | | | |
| Mounting pl | ate | | 9511003000 | | | | | | | | |
| Mounting ra | il TS | 15 | | | | | | | | 9820011000 | |
| Mounting ra | il TS : | 32 | | | | | | | | - | |
| Mounting ra | il TS : | 35 | | | | | | | | - | |
| Earthing rail | | | | | | | | | | - | |
| External mou | untin | g bra | ckets | | | | | | | _ | |
| External artic | culat | ed hir | iges | | | | | | | - | |
| Internal artic | ulate | d hin | ges w | ith co | over o | guide ³ | ×× | | | - | |
| Silicone seal | for e | xtend | ed te | mper | ature | range | e (by | the m | etre) | on request | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| Maximum p | ossil | ole nu | ımbe | r of t | hrea | ds | | | | | |
| ISO M | 12 | 16 | 20 | 25 | 32 | 40 | 50 | 63 | | | |
| Side A/B | 6 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| Side C/D | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| ** Enclosure | prep | aratio | n rec | uired | | | | | | | |
| ** Enclosure preparation required | | | | | | | | | | | |

^{*} Smaller dimension at mounting plate support

Aluminium Enclosures – Series CA

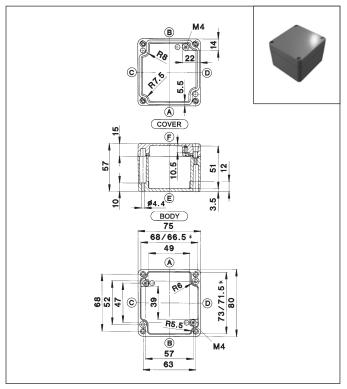
75 x 80 x 57 mm

CA-130 Aluminium enclosures

B M4 P 22 P 22 P 22 P 22 P 22 P 24 P 22 P 22 P 24 P 22 P 24 P 22 P 24 P 22 P 24 P 24 P 25 P 25 P 26 P 26

75 x 80 x 57 mm

CA-140 Aluminium enclosures



^{*} Smaller dimension at mounting plate support

| Туре | | | | | | | | | | CA-130 | | | |
|--------------|---|--------|---------|--------|--------|--------|-------|-------|-------|--------------|--|--|--|
| Weight (g) | | | | | | | | | | 280 | | | |
| External di | mensic | n (m | m) | | | | | | | 75 x 80 x 57 | | | |
| Ordering o | Ordering data Enclosure (painted) with seal (PUR) | | | | | | | | | | | | |
| with cover | with cover screws | | | | | | | | | | | | |
| unwashed, | not pa | intec | l, loos | e acc | essor | ies | | | | 1130057000 | | | |
| | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | |
| Accessorie | s (indi | vidua | l part | or in | stalla | tion k | it) | | | | | | |
| Mounting | olate | | | | | | | | | 9823015000 | | | |
| Mounting i | rail TS 1 | 15 | | | | | | | | 9820002000 | | | |
| Mounting i | rail TS 3 | 32 | | | | | | | | - | | | |
| Mounting i | rail TS 3 | 35 | | | | | | | | _ | | | |
| Earthing ra | il | | | | | | | | | - | | | |
| External m | ountin | g bra | ckets | | | | | | | _ | | | |
| External ar | ticulate | ed hir | nges | | | | | | | 9801044000 | | | |
| Internal art | iculate | d hin | ges v | vith c | over c | guide | ** | | | - | | | |
| Silicone sea | al for e | xtend | led te | mper | ature | rang | e (by | the m | etre) | on request | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| Maximum | possil | ole ni | umbe | r of t | hrea | ds | | | | | | | |
| ISO M | 12 | 16 | 20 | 25 | 32 | 40 | 50 | 63 | | | | | |
| Side A/B | 5 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | | | | | |
| Side C/D | 3 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | | | | | |
| ** Enclosur | ** Enclosure preparation required | | | | | | | | | | | | |

^{*} Smaller dimension at mounting plate support

| Туре | | | | | | | | | CA-140 | | | | |
|--------------------|--|--------|--------|--------|--------|--------|-------|-------|--------------|--|--|--|--|
| Weight (g) | | | | | | | | | 280 | | | | |
| External dimens | ion (m | m) | | | | | | | 75 x 80 x 57 | | | | |
| Ordering data | nclosu | ıre (p | ainte | d) wit | h sea | l (PUF | () | | Part number | | | | |
| with cover screw | with cover screws | | | | | | | | | | | | |
| unwashed, not p | ınwashed, not painted, loose accessories | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | |
| Accessories (inc | lividua | l part | or in | stalla | tion k | it) | | | | | | | |
| Mounting plate | | | | | | | | | 9511004000 | | | | |
| Mounting rail TS | 15 | | | | | | | | 9820035000 | | | | |
| Mounting rail TS | 32 | | | | | | | | - | | | | |
| Mounting rail TS | 35 | | | | | | | | - | | | | |
| Earthing rail | | | | | | | | | - | | | | |
| External mounti | ng bra | ckets | | | | | | | - | | | | |
| External articula | ted hir | nges | | | | | | | 9801044000 | | | | |
| Internal articulat | ted hin | ges v | vith c | over o | guide | ** | | | - | | | | |
| Silicone seal for | extend | led te | mper | ature | rang | e (by | the m | etre) | on request | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| Maximum poss | ible nu | umbe | r of t | hrea | ds | | | | | | | | |
| ISO M 12 | 16 | 20 | 25 | 32 | 40 | 50 | 63 | | | | | | |
| Side A/B 5 | 2 | 1 | 1 | 0 | 0 | 0 | 0 | | | | | | |
| Side C/D 3 | Side C/D 3 2 1 1 0 0 0 0 | | | | | | | | | | | | |
| ** Enclosure pre | ** Enclosure preparation required | | | | | | | | | | | | |

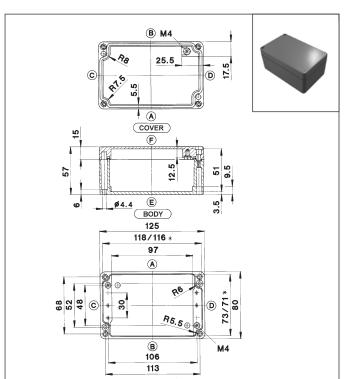


125 x 80 x 57 mm

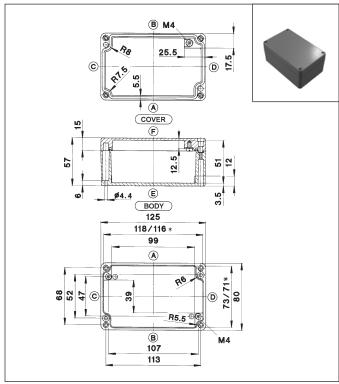
125 x 80 x 57 mm

CAD files available at www.bernstein.eu

CA-150 Aluminium enclosures



CA-160 Aluminium enclosures



^{*} Smaller dimension at mounting plate support

| Туре | | | | | | | | | | CA-150 | | | |
|---------------|---|--------|---------|--------|--------|--------|-------|--------|-------|---------------|--|--|--|
| Weight (g) | | | | | | | | | | 435 | | | |
| External din | nensio | n (m | m) | | | | | | | 125 x 80 x 57 | | | |
| Ordering d | Ordering data Enclosure (painted) with seal (PUR) | | | | | | | | | | | | |
| with cover s | 1150000000 | | | | | | | | | | | | |
| unwashed, | not pa | inted | l, loos | e acc | essor | ies | | | | 1150019000 | | | |
| | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | |
| Accessories | (indi | vidua | l part | or in | stalla | tion k | it) | | | | | | |
| Mounting p | late | | | | | | | | | 9823016000 | | | |
| Mounting ra | ail TS 1 | 15 | | | | | | | | 9820010000 | | | |
| Mounting ra | ail TS 3 | 32 | | | | | | | | - | | | |
| Mounting ra | ail TS 3 | 35 | | | | | | | | - | | | |
| Earthing rai | I | | | | | | | | | - | | | |
| External mo | untin | g bra | ckets | | | | | | | - | | | |
| External art | iculate | ed hir | nges | | | | | | | 9801044000 | | | |
| Internal arti | culate | d hin | ges v | vith c | over o | guide | ** | | | - | | | |
| Silicone sea | I for e | xtend | led te | mper | ature | rang | e (by | the me | etre) | on request | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| Maximum | possil | ole nu | umbe | r of t | hrea | ds | | | | | | | |
| ISO M | 12 | 16 | 20 | 25 | 32 | 40 | 50 | 63 | | | | | |
| Side A/B | 10 | 4 | 3 | 2 | 0 | 0 | 0 | 0 | | | | | |
| Side C/D | 3 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | | | | | |
| ** Enclosure | | | | | | | | | | | | | |

^{*} Smaller dimension at mounting plate support

| Туре | | | | | | | | | | CA-160 |
|----------------|---------|------------|------------|---------|--------|--------------------|--------|-------|--------|---------------|
| Weight (g) | | | | | | | | | | 435 |
| External dim | ensi | on (mi | m) | | | | | | | 125 x 80 x 57 |
| Ordering da | ata Er | nclosu | ıre (p | aintec | l) wit | h seal | l (PUF | ?) | | Part number |
| with cover so | crews | | 1160000000 | | | | | | | |
| unwashed, r | ot pa | 1160045000 | | | | | | | | |
| | | | | | | | | | | |
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| | | | | | | | | | | |
| Accessories | (indi | vidua | l part | or ins | talla | tion k | it) | | | |
| Mounting pl | ate | | | | | | | | | 9511005000 |
| Mounting ra | il TS | 15 | | | | | | | | 9820036000 |
| Mounting ra | il TS : | 32 | | | | | | | | - |
| Mounting ra | il TS : | 35 | | | | | | | | - |
| Earthing rail | | | | | | | | | | - |
| External mo | untin | g bra | ckets | | | | | | | _ |
| External arti | culate | ed hin | iges | | | | | | | 9801044000 |
| Internal artic | ulate | ed hin | ges w | ith co | ver c | guide [:] | ** | | | - |
| Silicone seal | for e | xtend | led te | mper | ature | rang | e (by | the m | netre) | on request |
| | | | | | | | | | | |
| | | | | | | | | | | |
| Maximum p | ossil | ble nu | ımbe | r of tl | hrea | ds | | | | |
| ISO M | 12 | 16 | 20 | 25 | 32 | 40 | 50 | 63 | | |
| Side A/B | 10 | 4 | 3 | 2 | 0 | 0 | 0 | 0 | | |
| Side C/D | 4 | 2 | 1 | 1 | 0 | 0 | 0 | 0 | | |
| ** Enclosure | prep | aratio | n rec | uired | | | | | | |
| | | | | | | | | | | |

Aluminium Enclosures – Series CA

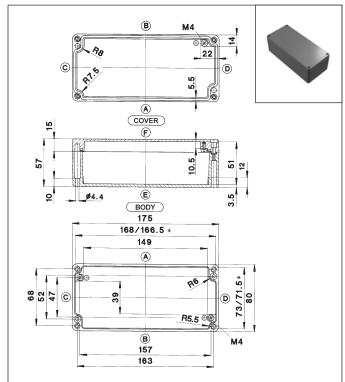
175 x 80 x 57 mm

CA-170 Aluminium enclosures

B M4 R 22 D 25 R 22 D 26 R 27 R 20 R 20

175 x 80 x 57 mm

CA-180 Aluminium enclosures



^{*} Smaller dimension at mounting plate support

| Туре | | | | | | | | | | CA-170 |
|-----------------------------------|-------------|--------|---------|--------|--------|--------|-------|-------|--------|---------------|
| Weight (g) | | | | | | | | | | 530 |
| External di | mensio | on (m | m) | | | | | | | 175 x 80 x 57 |
| Ordering o | Part number | | | | | | | | | |
| with cover | 1170000000 | | | | | | | | | |
| unwashed, | not pa | intec | d, loos | e acc | essor | ies | | | | 1170016000 |
| | | | | | | | | | | |
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| | | | | | | | | | | |
| Accessorie | | vidua | l part | or in | stalla | tion k | it) | | | |
| Mounting p | | | | | | | | | | 9823017000 |
| Mounting r | rail TS | 15 | | | | | | | | 9820014000 |
| Mounting r | rail TS 3 | 32 | | | | | | | | - |
| Mounting r | rail TS 3 | 35 | | | | | | | | - |
| Earthing ra | il | | | | | | | | | - |
| External me | ountin | g bra | ckets | | | | | | | - |
| External art | ticulate | ed hir | nges | | | | | | | 9801044000 |
| Internal art | iculate | d hin | iges v | vith c | over o | guide | ** | | | - |
| Silicone sea | al for e | xtend | led te | mper | ature | rang | e (by | the r | netre) | on request |
| | | | | | | | | | | |
| | | | | | | | | | | |
| Maximum | possil | ole ni | umbe | r of t | hrea | ds | | | | |
| ISO M | 12 | 16 | 20 | 25 | 32 | 40 | 50 | 63 | | |
| Side A/B | 14 | 6 | 4 | 4 | 0 | 0 | 0 | 0 | | |
| Side C/D | 3 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | | |
| ** Enclosure preparation required | | | | | | | | | | |

^{*} Smaller dimension at mounting plate support

| Туре | | CA-180 | | | | | | | | | | |
|--|---|-----------------------|--|--|--|--|--|--|--|--|--|--|
| Weight (g) | | 530 | | | | | | | | | | |
| External dimension (mm) | | 175 x 80 x 57 | | | | | | | | | | |
| Ordering data Enclosure (painted) with seal (P | JR) | Part number | | | | | | | | | | |
| with cover screws | 118000000 | | | | | | | | | | | |
| unwashed, not painted, loose accessories | 1180040000 | | | | | | | | | | | |
| | | | | | | | | | | | | |
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| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| Accessories (individual part or installation kit) | Accessories (individual part or installation kit) | | | | | | | | | | | |
| Mounting plate | | 9511006000 | | | | | | | | | | |
| Mounting rail TS 15 | | 9820037000 | | | | | | | | | | |
| Mounting rail TS 32 | | - | | | | | | | | | | |
| Mounting rail TS 35 | | - | | | | | | | | | | |
| Earthing rail | | - | | | | | | | | | | |
| External mounting brackets | | - | | | | | | | | | | |
| External articulated hinges | | 9801044000 | | | | | | | | | | |
| Internal articulated hinges with cover guide** | | - | | | | | | | | | | |
| Silicone seal for extended temperature range (b | y the met | re) on request | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| Maximum possible number of threads | | | | | | | | | | | | |
| ISO M 12 16 20 25 32 40 50 | 0 63 | | | | | | | | | | | |
| Side A/B 14 6 4 4 0 0 | 0 0 | | | | | | | | | | | |
| Side C/D 4 2 1 1 0 0 | 0 0 | | | | | | | | | | | |
| ** Enclosure preparation required | | | | | | | | | | | | |

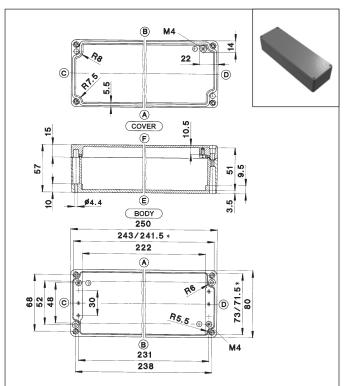


250 x 80 x 57 mm

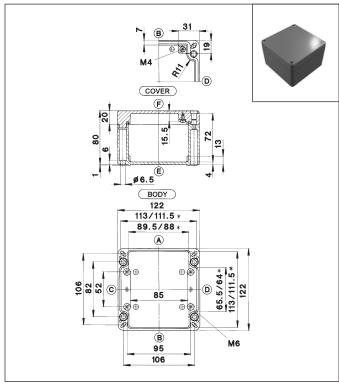
122 x 122 x 80 mm

CAD files available at www.bernstein.eu

CA-190 Aluminium enclosures



CA-210 Aluminium enclosures



^{*} Smaller dimension at mounting plate support

| Туре | | | | | | | | | | CA-190 | | | | |
|-----------------------------------|-------------------|--------|--------|--------|--------|--------|--------|-------|-------|---------------|--|--|--|--|
| Weight (g) | | | | | | | | | | 710 | | | | |
| External di | mensio | on (m | m) | | | | | | | 250 x 80 x 57 | | | | |
| Ordering o | lata Er | nclosu | ıre (p | ainte | d) wit | h sea | l (PUF | () | | Part number | | | | |
| with cover | with cover screws | | | | | | | | | | | | | |
| Unwashed, | 1190026000 | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | |
| Accessorie | s (indi | vidua | l part | or in | stalla | tion k | it) | | | | | | | |
| Mounting p | olate | | | | | | | | | 9823021000 | | | | |
| Mounting r | ail TS | 15 | | | | | | | | 9820019000 | | | | |
| Mounting r | ail TS 3 | 32 | | | | | | | | - | | | | |
| Mounting r | ail TS 3 | 35 | | | | | | | | - | | | | |
| Earthing ra | il | | | | | | | | | - | | | | |
| External me | ountin | g bra | ckets | | | | | | | - | | | | |
| External art | ticulate | ed hir | nges | | | | | | | 9801044000 | | | | |
| Internal art | iculate | d hin | ges v | vith c | over o | guide | ** | | | - | | | | |
| Silicone sea | al for e | xtend | led te | mper | ature | rang | e (by | the m | etre) | on request | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| Maximum | possil | ole nu | umbe | r of t | hrea | ds | | | | | | | | |
| ISO M | 12 | 16 | 20 | 25 | 32 | 40 | 50 | 63 | | | | | | |
| Side A/B | 22 | 9 | 7 | 5 | 0 | 0 | 0 | 0 | | | | | | |
| Side C/D | 3 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | | | | | | |
| ** Enclosure preparation required | | | | | | | | | | | | | | |

^{*} Smaller dimension at mounting plate support

| Туре | | CA-210 | | | | | | | | |
|-----------------------------------|----------|------------|--------|---------|--------|--------------------|----------------|-------|-------------------|--|
| Weight (g) | | | | | | | | | 940 | |
| External dim | ensi | on (m | m) | | | | | | 122 x 122 x 80 | |
| Ordering da | ata Er | nclosu | ıre (p | ainted | d) wit | h seal | (PUF | ?) | Part number | |
| with cover so | crews | 1210000000 | | | | | | | | |
| Unwashed, r | not pa | 1210016000 | | | | | | | | |
| | | | | | | | | | | |
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| | | | | | | | | | | |
| Accessories | (indi | vidua | l part | or in | stalla | tion k | it) | | | |
| Mounting pl | ate | | | | | | | | 9511150000 | |
| Mounting ra | il TS | 15 | | | | | | | 9820019000 | |
| Mounting ra | il TS : | 32 | | | | | | | 9821000000 | |
| Mounting ra | il TS : | 35 | | | | | | | 9822001000 | |
| Earthing rail | | | | | | | | | 9810002000 | |
| External mo | untin | g bra | ckets | | | | | | 9824024000 | |
| External artic | culat | ed hir | iges | | | | | | 9801047000 | |
| Internal artic | culate | d hin | ges v | vith co | over g | guide ³ | * * | | 9801031000 | |
| Silicone seal | for e | xtend | led te | mper | ature | range | e (by | the m | netre) on request | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| Maximum p | ossil | ole nu | ımbe | r of t | hread | ds | | | | |
| ISO M | 12 | 16 | 20 | 25 | 32 | 40 | 50 | 63 | | |
| Side A/B | 12 | 6 | 4 | 2 | 2 | 0 | 0 | 0 | | |
| Side C/D | 5 | 2 | 2 | 1 | 0 | 0 | 0 | 0 | | |
| ** Enclosure preparation required | | | | | | | | | | |
| | <u> </u> | | | | | | _ | | | |

Aluminium Enclosures – Series CA

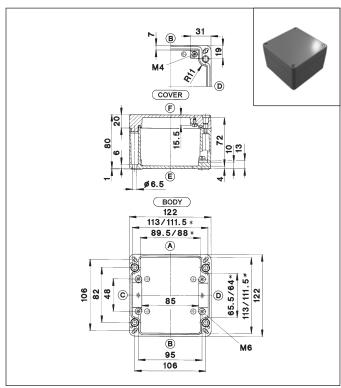
122 x 122 x 90 mm

CA-215 Aluminium enclosures

BODY 122 13/111.5 * 89.5/88 * 89.5/88 * A B 95 106 M6

122 x 122 x 80 mm

CA-220 Aluminium enclosures



^{*} Smaller dimension at mounting plate support

| Туре | | | | | | | | | | CA-215 |
|--------------|----------------|--------|---------|--------|--------|--------|-------|-------|--------|------------|
| Weight (g) | 940 | | | | | | | | | |
| External di | 122 x 122 x 90 | | | | | | | | | |
| Ordering o | Part number | | | | | | | | | |
| with cover | screws | ; | | | | | | | | 1210000050 |
| unwashed, | not pa | intec | d, loos | e acc | essor | ies | | | | 1210012050 |
| | | | | | | | | | | |
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| | | | | | | | | | | |
| Accessorie | s (indi | vidua | l part | or in | stalla | tion k | it) | | | |
| Mounting p | olate | | | | | | | | | 9511150000 |
| Mounting r | rail TS 1 | 15 | | | | | | | | - |
| Mounting r | rail TS 3 | 32 | | | | | | | | 9821000000 |
| Mounting r | rail TS 3 | 35 | | | | | | | | 9822001000 |
| Earthing ra | il | | | | | | | | | 9810002000 |
| External me | ountin | g bra | ckets | | | | | | | 9824024000 |
| External art | ticulate | ed hir | nges | | | | | | | 9801047000 |
| Internal art | iculate | d hin | iges v | vith c | over o | guide | ** | | | 9801031000 |
| Silicone sea | al for e | xtend | led te | mper | ature | rang | e (by | the r | netre) | on request |
| | | | | | | | | | | _ |
| | | | | | | | | | | |
| Maximum | possil | ole ni | umbe | r of t | hrea | ds | | | | |
| ISO M | 12 | 16 | 20 | 25 | 32 | 40 | 50 | 63 | | |
| Side A/B | 12 | 6 | 4 | 2 | 2 | 0 | 0 | 0 | | |
| Side C/D | 5 | 2 | 2 | 1 | 0 | 0 | 0 | 0 | | |
| ** Enclosur | o nron | aratio | n rec | uirec | 1 | | | | | |

^{*} Smaller dimension at mounting plate support

| Туре | CA-220 | | | | | | | | | | |
|---|----------------|--|--|--|--|--|--|--|--|--|--|
| Weight (g) | 940 | | | | | | | | | | |
| External dimension (mm) | 122 x 122 x 80 | | | | | | | | | | |
| Ordering data Enclosure (painted) with seal (PUR) | Part number | | | | | | | | | | |
| with cover screws | 122000000 | | | | | | | | | | |
| unwashed, not painted, loose accessories | 1220061000 | | | | | | | | | | |
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| | | | | | | | | | | | |
| | | | | | | | | | | | |
| Accessories (individual part or installation kit) | | | | | | | | | | | |
| Mounting plate | 9511008000 | | | | | | | | | | |
| Mounting rail TS 15 | - | | | | | | | | | | |
| Mounting rail TS 32 | 9821000000 | | | | | | | | | | |
| Mounting rail TS 35 | 9822001000 | | | | | | | | | | |
| Earthing rail | 9810002000 | | | | | | | | | | |
| External mounting brackets | 9824024000 | | | | | | | | | | |
| External articulated hinges | 9801047000 | | | | | | | | | | |
| Internal articulated hinges with cover guide** | 9801031000 | | | | | | | | | | |
| Silicone seal for extended temperature range (by the metre) | on request | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| Maximum possible number of threads | | | | | | | | | | | |
| ISO M 12 16 20 25 32 40 50 63 | | | | | | | | | | | |
| Side A/B 12 6 4 2 2 0 0 0 | | | | | | | | | | | |
| Side C/D 5 2 2 1 0 0 0 0 | | | | | | | | | | | |
| ** Enclosure preparation required | | | | | | | | | | | |



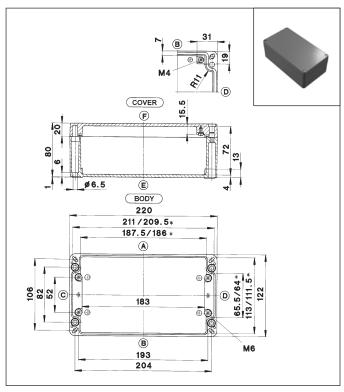
220 x 122 x 80 mm

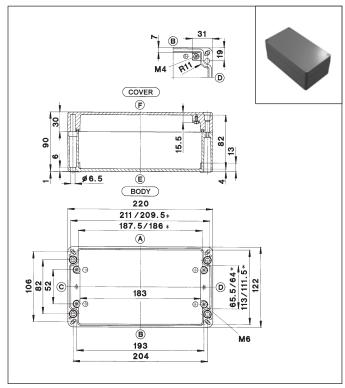
220 x 122 x 90 mm

CAD files available at www.bernstein.eu

CA-230 Aluminium enclosures

CA-235 Aluminium enclosures





^{*} Smaller dimension at mounting plate support

| ort | Smaller dimension at mounting plate support | |
|-----|---|--|
| | | |
| | | |

| Type Weight (g) External dimension (mm) Cordering data Enclosure (painted) with seal (PUR) Part number with cover screws unwashed, not painted, loose accessories Accessories (individual part or installation kit) Mounting plate Mounting rail TS 15 Mounting rail TS 32 Mounting rail TS 35 Earthing rail External articulated hinges External articulated hinges with cover guide** 9821005000 Maximum possible number of threads Bico M 12 16 20 21 220 x 122 x 80 Part number 1230000000 1230015000 Part number 1230015000 Part number 9811095000 Part number 9821005000 Part | | | | | | | | | | | | |
|--|-----------------------------------|----------|----------------|--------|--------|--------|--------|-------|--------|-------|------------|--|
| External dimension (mm) Ordering data Enclosure (painted) with seal (PUR) With cover screws Unwashed, not painted, loose accessories Accessories (individual part or installation kit) Mounting palate Mounting rail TS 15 Mounting rail TS 35 Mounting rail External mounting brackets External articulated hinges External articulated hinges with cover guide** Silicone seal for extended temperature range (by the metre) Maximum possible number of threads ISO M 12 16 20 25 32 40 50 63 Side A/B 27 12 8 5 4 0 0 0 Side C/D 5 2 2 1 0 0 0 0 Side C/D 5 2 2 1 0 0 0 0 Part number 1230000000 Part number Part number 1230000000 Part number 123000000 Part number 1230000000 Part number 1230015000 Part number 1230000000 Part number 1230000000 Part number 1230015000 Part number 123000000 Part number 1230000000 Part number 123000000 Part number 12300000 Part number 12300000 Part number 12300000 | Туре | | | | | | | | | | CA-230 | |
| Ordering data Enclosure (painted) with seal (PUR) Part number with cover screws 1230000000 unwashed, not painted, loose accessories 1230015000 Accessories (individual part or installation kit) Mounting plate 9511095000 Mounting rail TS 15 - Mounting rail TS 35 9822007000 Earthing rail 981008000 External mounting brackets 9824024000 External articulated hinges 9801047000 Internal articulated hinges with cover guide** 9801031000 Silicone seal for extended temperature range (by the metre) on request Maximum possible number of threads ISO M 12 16 20 25 32 40 50 63 Side A/B 27 12 8 5 4 0 0 Side C/D 5 2 2 1 0 0 0 | Weight (g) | | | | | | | | | | 1410 | |
| with cover screws unwashed, not painted, loose accessories 1230000000 Accessories (individual part or installation kit) Mounting plate 9511095000 Mounting rail TS 15 | External din | nensio | 220 x 122 x 80 | 1 | | | | | | | | |
| Accessories (individual part or installation kit) Mounting plate Mounting rail TS 15 Mounting rail TS 32 Mounting rail TS 35 Earthing rail External mounting brackets External articulated hinges External articulated hinges with cover guide** 9801047000 Internal articulated hinges with cover guide** 9801031000 Silicone seal for extended temperature range (by the metre) Maximum possible number of threads ISO M 12 16 20 25 32 40 50 63 Side A/B 27 12 8 5 4 0 0 0 Side C/D 5 2 2 1 0 0 0 0 | Ordering d | ata Ei | Part number | | | | | | | | | |
| Accessories (individual part or installation kit) Mounting plate | with cover s | crews | 1230000000 | | | | | | | | | |
| Mounting plate Mounting rail TS 15 Mounting rail TS 32 Mounting rail TS 35 Matternal mounting brackets Maximum possible number of threads Side A/B 27 12 8 5 4 0 0 0 0 Side C/D 5 2 2 1 0 0 0 0 0 Mounting rail TS 35 P821005000 9821005000 9824024000 P824024000 P8240240 | unwashed, | not pa | 1230015000 | | | | | | | | | |
| Mounting plate Mounting rail TS 15 Mounting rail TS 32 Mounting rail TS 35 Matternal mounting brackets Maximum possible number of threads Side A/B 27 12 8 5 4 0 0 0 0 Side C/D 5 2 2 1 0 0 0 0 0 Mounting rail TS 35 P821005000 9821005000 9824024000 P824024000 P8240240 | | | | | | | | | | | | |
| Mounting plate Mounting rail TS 15 Mounting rail TS 32 Mounting rail TS 35 Matternal mounting brackets Maximum possible number of threads Side A/B 27 12 8 5 4 0 0 0 0 Side C/D 5 2 2 1 0 0 0 0 0 Mounting rail TS 35 P821005000 9821005000 9824024000 P824024000 P8240240 | | | | | | | | | | | | |
| Mounting plate Mounting rail TS 15 Mounting rail TS 32 Mounting rail TS 35 Matternal mounting brackets Maximum possible number of threads Side A/B 27 12 8 5 4 0 0 0 0 Side C/D 5 2 2 1 0 0 0 0 0 Mounting rail TS 35 P821005000 9821005000 9824024000 P824024000 P8240240 | | | | | | | | | | | | |
| Mounting plate Mounting rail TS 15 Mounting rail TS 32 Mounting rail TS 35 Matternal mounting brackets Maximum possible number of threads Side A/B 27 12 8 5 4 0 0 0 0 Side C/D 5 2 2 1 0 0 0 0 0 Mounting rail TS 35 P821005000 9821005000 9824024000 P824024000 P8240240 | | | | | | | | | | | | |
| Mounting plate Mounting rail TS 15 Mounting rail TS 32 Mounting rail TS 35 Matternal mounting brackets Maximum possible number of threads Side A/B 27 12 8 5 4 0 0 0 0 Side C/D 5 2 2 1 0 0 0 0 0 Mounting rail TS 35 P821005000 9821005000 9824024000 P824024000 P8240240 | | | | | | | | | | | | |
| Mounting plate Mounting rail TS 15 Mounting rail TS 32 Mounting rail TS 35 Matternal mounting brackets Maximum possible number of threads Side A/B 27 12 8 5 4 0 0 0 0 Side C/D 5 2 2 1 0 0 0 0 0 Mounting rail TS 35 P821005000 9821005000 9824024000 P824024000 P8240240 | | | | | | | | | | | | |
| Mounting rail TS 15 – Mounting rail TS 32 9821005000 Mounting rail TS 35 9822007000 Earthing rail 9810008000 External articulated hinges 9824024000 External articulated hinges with cover guide** 9801047000 Internal articulated hinges with cover guide** 9801031000 Silicone seal for extended temperature range (by the metre) on request Maximum possible number of threads ISO M 12 16 20 25 32 40 50 63 Side A/B 27 12 8 5 4 0 0 0 Side C/D 5 2 2 1 0 0 0 0 | Accessories | s (indi | vidua | l part | or in | stalla | tion k | it) | | | | |
| Mounting rail TS 32 9821005000 Mounting rail TS 35 9822007000 Earthing rail 981008000 External mounting brackets 9824024000 External articulated hinges 9801047000 Internal articulated hinges with cover guide** 9801031000 Silicone seal for extended temperature range (by the metre) on request Maximum possible number of threads ISO M 12 16 20 25 32 40 50 63 Side A/B 27 12 8 5 4 0 0 0 Side C/D 5 2 2 1 0 0 0 0 0 | Mounting p | late | | | | | | | | | 9511095000 | |
| Mounting rail TS 35 9822007000 Earthing rail | Mounting ra | ail TS | 15 | | | | | | | | - | |
| Earthing rail 981008000 External mounting brackets 9824024000 External articulated hinges 9801047000 Internal articulated hinges with cover guide** 9801031000 Silicone seal for extended temperature range (by the metre) on request Maximum possible number of threads ISO M 12 16 20 25 32 40 50 63 Side A/B 27 12 8 5 4 0 0 0 Side C/D 5 2 2 1 0 0 0 0 | Mounting ra | ail TS : | 32 | | | | | | | | 9821005000 | |
| External mounting brackets 9824024000 External articulated hinges 9801047000 Internal articulated hinges with cover guide** 9801031000 Silicone seal for extended temperature range (by the metre) on request Maximum possible number of threads | Mounting ra | ail TS : | 35 | | | | | | | | 9822007000 | |
| External articulated hinges | Earthing rai | I | | | | | | | | | 9810008000 | |
| Maximum possible number of threads Side A/B | External mo | untin | g bra | ckets | | | | | | | 9824024000 | |
| Silicone seal for extended temperature range (by the metre) | External art | iculat | ed hir | nges | | | | | | | 9801047000 | |
| Maximum possible number of threads ISO M 12 16 20 25 32 40 50 63 Side A/B 27 12 8 5 4 0 0 0 Side C/D 5 2 2 1 0 0 0 | Internal arti | culate | ed hin | ges v | vith c | over o | guide | ** | | | 9801031000 | |
| ISO M 12 16 20 25 32 40 50 63 Side A/B 27 12 8 5 4 0 0 0 Side C/D 5 2 2 1 0 0 0 0 | Silicone sea | l for e | xtend | led te | mper | ature | rang | e (by | the me | etre) | on request | |
| ISO M 12 16 20 25 32 40 50 63 Side A/B 27 12 8 5 4 0 0 0 Side C/D 5 2 2 1 0 0 0 0 | | | | | | | | | | | | |
| ISO M 12 16 20 25 32 40 50 63 Side A/B 27 12 8 5 4 0 0 0 Side C/D 5 2 2 1 0 0 0 0 | | | | | | | | | | | | |
| Side A/B 27 12 8 5 4 0 0 0 Side C/D 5 2 2 1 0 0 0 0 | Maximum | possil | ble n | umbe | r of t | hrea | ds | | | | | |
| Side C/D 5 2 2 1 0 0 0 0 | ISO M | 12 | 16 | 20 | 25 | 32 | 40 | 50 | 63 | | | |
| | Side A/B | 27 | 12 | 8 | 5 | 4 | 0 | 0 | 0 | | | |
| ** Enclosure preparation required | Side C/D | 5 | | | | | | | | | | |
| | ** Enclosure preparation required | | | | | | | | | | | |

| Туре | | | | | | | | | | CA-235 | | | |
|--------------------------|---|--------|--------|--------|--------|--------|-------|-------|-------|----------------|--|--|--|
| Weight (g) | | | | | | | | | | 1410 | | | |
| External dim | nensio | on (m | m) | | | | | | | 220 x 122 x 90 | | | |
| Ordering da | Ordering data Enclosure (painted) with seal (PUR) | | | | | | | | | | | | |
| with cover s | 1230000050 | | | | | | | | | | | | |
| unwashed, r | unwashed, not painted, loose accessories | | | | | | | | | | | | |
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| | | | | | | | | | | | | | |
| Accessories | (indi | vidua | l part | or in | stalla | tion k | it) | | | | | | |
| Mounting p | | | | | | | | | | 9511095000 | | | |
| Mounting ra | | | | | | | | | | - | | | |
| Mounting ra | il TS : | 32 | | | | | | | | 9821005000 | | | |
| Mounting ra | il TS : | 35 | | | | | | | | 9822007000 | | | |
| Earthing rail | | | | | | | | | | 9810008000 | | | |
| External mo | untin | g bra | ckets | | | | | | | 9824024000 | | | |
| External arti | | | _ | | | | | | | 9801047000 | | | |
| Internal artic | culate | ed hin | ges v | ith c | over o | guide | ** | | | 9801031000 | | | |
| Silicone seal | for e | xtend | ed te | mper | ature | rang | e (by | the m | etre) | on request | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| Maximum p | | | | | | | | | | | | | |
| ISO M | 12 | 16 | 20 | 25 | 32 | 40 | 50 | 63 | | | | | |
| Side A/B | | | | 5 | 4 | 0 | 0 | 0 | | | | | |
| Side C/D 5 2 2 1 0 0 0 0 | | | | | | | | | | | | | |
| ** Enclosure | prep | aratio | n rec | Juired | | | | | | | | | |

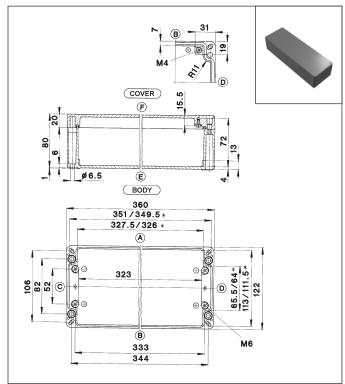
Aluminium Enclosures – Series CA

220 x 122 x 80 mm

CA-240 Aluminium enclosures

360 x 122 x 80 mm

CA-250 Aluminium enclosures



^{*} Smaller dimension at mounting plate support

| Туре | | | | | | | | | | CA-240 |
|--------------|---------------|--------|---------|--------|--------|--------|-------|-------|--------|------------|
| Weight (g) | 1410 | | | | | | | | | |
| External dir | 220 x 122 x 8 | | | | | | | | | |
| Ordering of | Part number | | | | | | | | | |
| with cover | screws | 5 | | | | | | | | 1240000000 |
| unwashed, | not pa | aintec | l, loos | e acc | essor | ies | | | | 1240082000 |
| | | | | | | | | | | |
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| | | | | | | | | | | |
| Accessorie | s (indi | vidua | l part | or in | stalla | tion k | it) | | | |
| Mounting p | olate | | | | | | | | | 9511009000 |
| Mounting r | ail TS | 15 | | | | | | | | - |
| Mounting r | ail TS | 32 | | | | | | | | 9821005000 |
| Mounting r | ail TS | 35 | | | | | | | | 9822007000 |
| Earthing ra | il | | | | | | | | | 9810008000 |
| External mo | ountin | g bra | ckets | | | | | | | 9820024000 |
| External art | ticulat | ed hir | nges | | | | | | | 9801047000 |
| Internal art | iculate | ed hin | ges v | vith c | over o | guide | ** | | | 9801031000 |
| Silicone sea | al for e | xtend | led te | mper | ature | rang | e (by | the r | netre) | on request |
| | | | | | | | | | | _ |
| | | | | | | | | | | |
| Maximum | possi | ble n | umbe | r of t | hrea | ds | | | | |
| ISO M | 12 | 16 | 20 | 25 | 32 | 40 | 50 | 63 | | |
| Side A/B | 27 | 12 | 8 | 5 | 4 | 0 | 0 | 0 | | |
| Side C/D | 5 | 2 | 2 | 1 | 0 | 0 | 0 | 0 | | |
| ** Enclosur | 0 0100 | aratio | n roc | uiroc | 1 | | | | | |

^{*} Smaller dimension at mounting plate support

| Туре | | | | | | | | | CA-250 | |
|-----------------------------------|--------------|------------|---------|--------|---------|--------------------|----------------|-------|-------------------|--|
| Weight (g) | | | | | | | | | 1860 | |
| External dim | ensic | n (mı | m) | | | | | | 360 x 122 x 80 | |
| Ordering da | ta Er | nclosu | ıre (pa | ainted | d) wit | h seal | (PUF | ₹) | Part number | |
| with cover so | rews | 1250000000 | | | | | | | | |
| unwashed, n | ot pa | 1250011000 | | | | | | | | |
| | | | | | | | | | | |
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| | | | | | | | | | | |
| Accessories | (indi | vidua | l part | or ins | stallat | tion k | it) | | | |
| Mounting pl | ate | | | | | | | | 9511174000 | |
| Mounting ra | il TS 1 | 15 | | | | | | | - | |
| Mounting ra | il TS 3 | 32 | | | | | | | 9821012000 | |
| Mounting ra | il TS 3 | 35 | | | | | | | 9822015000 | |
| Earthing rail | | | | | | | | | 9810014000 | |
| External mou | untin | g bra | ckets | | | | | | 9824024000 | |
| External artic | culate | ed hin | iges | | | | | | 9801047000 | |
| Internal artic | ulate | d hin | ges w | ith co | over g | guide ³ | * * | | 9801031000 | |
| Silicone seal | for ex | xtend | led te | mper | ature | range | e (by | the m | netre) on request | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| Maximum p | ossik | ole nu | ımbe | r of t | hread | ds | | | | |
| ISO M | 12 | 16 | 20 | 25 | 32 | 40 | 50 | 63 | | |
| Side A/B | 48 | 21 | 16 | 9 | 6 | 0 | 0 | 0 | | |
| Side C/D | 5 | 2 | 2 | 1 | 0 | 0 | 0 | 0 | | |
| ** Enclosure preparation required | | | | | | | | | | |
| | <u> </u> | | | | | | _ | | | |



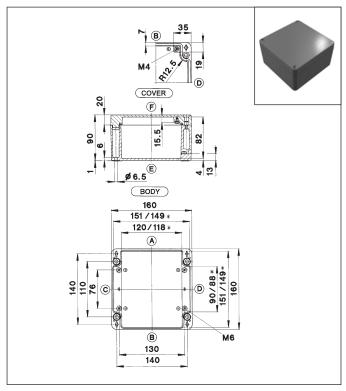
160 x 160 x 90 mm

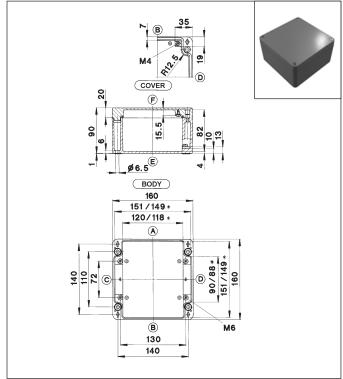
160 x 160 x 90 mm

CAD files available at www.bernstein.eu

CA-270 Aluminium enclosures

CA-280 Aluminium enclosures





^{*} Smaller dimension at mounting plate support

| Туре | | | | | | | | | | CA-270 | | | | | |
|--------------|--|--------|--------|--------|--------|--------|-------|-------|------------|----------------|--|--|--|--|--|
| Weight (g) | | | | | | | | | | 1410 | | | | | |
| External di | mensio | on (m | m) | | | | | | | 160 x 160 x 90 | | | | | |
| Ordering of | rdering data Enclosure (painted) with seal (PUR) | | | | | | | | | | | | | | |
| with cover | screws | ; | | | | | | | | 1270000000 | | | | | |
| unwashed, | nwashed, not painted, loose accessories | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | | |
| Accessorie | • | vidua | l part | or in | stalla | tion k | it) | | | | | | | | |
| Mounting | | | | | | | | | | 9511149000 | | | | | |
| Mounting | rail TS 1 | 15 | | | | | | | | - | | | | | |
| Mounting | rail TS 3 | 32 | | | | | | | | 9821002000 | | | | | |
| Mounting | rail TS 3 | 35 | | | | | | | | 9822003000 | | | | | |
| Earthing ra | il | | | | | | | | | 9810004000 | | | | | |
| External m | xternal mounting brackets | | | | | | | | 9824024000 | | | | | | |
| External ar | ticulate | ed hir | nges | | | | | | | 9801047000 | | | | | |
| Internal art | iculate | d hin | ges v | vith c | over o | guide | ** | | | 9801030000 | | | | | |
| Silicone sea | al for e | xtenc | led te | mper | ature | rang | e (by | the m | etre) | on request | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| Maximum | possil | ole ni | umbe | r of t | hrea | ds | | | | | | | | | |
| ISO M | 12 | 16 | 20 | 25 | 32 | 40 | 50 | 63 | | | | | | | |
| Side A/B | 20 | 9 | 6 | 4 | 2 | 2 | 1 | 0 | | | | | | | |
| Side C/D | 8 | 4 | 3 | 2 | 2 | 0 | 0 | 0 | | | | | | | |
| ** Enclosur | ** Enclosure preparation required | | | | | | | | | | | | | | |

^{*} Smaller dimension at mounting plate support

| Туре | | | | | | | | | | -280 |
|-----------------------------------|---------------|--------|----------|---------|--------|--------------------|----------------|-------|-----------------|------------|
| Weight (g) | | | | | | | | | 141 | 0 |
| External dim | ensi | on (m | m) | | | | | | 160 | x 160 x 90 |
| Ordering da | ata Er | nclosu | ıre (p | ainted | d) wit | h seal | (PUF | ?) | Par | t number |
| with cover so | crews | 5 | | | | | | | 128 | 3000000 |
| unwashed, n | ot pa | 128 | 30033000 | | | | | | | |
| | | | | | | | | | | |
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| | | | | | | | | | | |
| | | | | | | | | | | |
| Accessories | (indi | vidua | l part | or in | stalla | tion k | it) | | | |
| Mounting pl | ate | | | | | | | | 951 | 1011000 |
| Mounting ra | il TS | 15 | | | | | | | - | |
| Mounting ra | il TS : | 32 | | | | | | | 982 | 21002000 |
| Mounting ra | il TS : | 35 | | | | | | | 982 | 22003000 |
| Earthing rail | | | | | | | | | 981 | 0004000 |
| External mou | untin | g bra | ckets | | | | | | 982 | 24024000 |
| External artic | culat | ed hir | iges | | | | | | 980 | 1047000 |
| Internal artic | ulate | ed hin | ges w | vith co | over g | guide ³ | * * | | 980 | 1030000 |
| Silicone seal | for e | xtend | led te | mper | ature | range | e (by | the m | etre) on | request |
| | | | | | | | | | | |
| | | | | | | | | | | |
| Maximum p | ossil | ble nu | ımbe | r of t | hrea | ds | | | | |
| ISO M | 12 | 16 | 20 | 25 | 32 | 40 | 50 | 63 | | |
| Side A/B | 20 | 9 | 6 | 4 | 2 | 2 | 1 | 0 | | |
| Side C/D | 8 | 4 | 3 | 2 | 2 | 0 | 0 | 0 | | |
| ** Enclosure preparation required | | | | | | | | | | |
| | <u> </u> | | | | | | _ | | | |

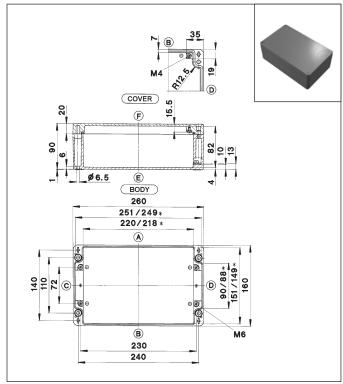
Aluminium Enclosures – Series CA

260 x 160 x 90 mm

CA-290 Aluminium enclosures

260 x 160 x 90 mm

CA-300 Aluminium enclosures



^{*} Smaller dimension at mounting plate support

| Type | | | | | | | | | | CA-290 | | | | |
|-----------------------------------|---|--------|--------|--------|--------|--------|-------|-------|--------|----------------|--|--|--|--|
| Weight (g) | | | | | | | | | | 1960 | | | | |
| External di | mensio | on (m | m) | | | | | | | 260 x 160 x 90 | | | | |
| Ordering o | rdering data Enclosure (painted) with seal (PUR) | | | | | | | | | | | | | |
| with cover | vith cover screws Inwashed, not painted, loose accessories | | | | | | | | | | | | | |
| unwashed, | 1290011000 | | | | | | | | | | | | | |
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| Accessorie | s (indi | vidua | l part | or in | stalla | tion k | it) | | | | | | | |
| Mounting p | olate | | | | | | | | | 9511096000 | | | | |
| Mounting r | rail TS | 15 | | | | | | | | - | | | | |
| Mounting r | rail TS | 32 | | | | | | | | 9821008000 | | | | |
| Mounting r | rail TS | 35 | | | | | | | | 9822011000 | | | | |
| Earthing ra | il | | | | | | | | | 9810010000 | | | | |
| External me | ountin | g bra | ckets | | | | | | | 9824024000 | | | | |
| External art | ticulat | ed hir | nges | | | | | | | 9801047000 | | | | |
| Internal art | iculate | ed hin | iges v | vith c | over o | guide | ** | | | 9801030000 | | | | |
| Silicone sea | al for e | xtenc | led te | mper | ature | rang | e (by | the r | netre) | on request | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| Maximum | possil | ble n | umbe | r of t | hrea | ds | | | | | | | | |
| ISO M | 12 | 16 | 20 | 25 | 32 | 40 | 50 | 63 | | | | | | |
| Side A/B | 36 | 17 | 12 | 7 | 4 | 3 | 3 | 0 | | | | | | |
| Side C/D | 8 | 4 | 3 | 2 | 2 | 0 | 0 | 0 | | | | | | |
| ** Enclosure preparation required | | | | | | | | | | | | | | |

^{*} Smaller dimension at mounting plate support

| Туре | | | | | | | | | CA-300 |
|----------------|-----------------------------------|------------|---------|--------|--------|--------------------|---------------|-------|------------------|
| Weight (g) | | | | | | | | | 1960 |
| External dim | ensic | n (mı | m) | | | | | | 260 x 160 x 90 |
| Ordering da | ta Er | nclosu | ıre (pa | aintec | l) wit | h seal | (PUF | ?) | Part number |
| with cover so | rews | | | | | | | | 130000000 |
| unwashed, n | ot pa | 1300041000 | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
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| | | | | | | | | | |
| | | | | | | | | | |
| Accessories | (indi | vidua | l part | or ins | tallat | tion k | it) | | |
| Mounting pla | ate | | | | | | | | 9511012000 |
| Mounting rai | il TS 1 | 15 | | | | | | | - |
| Mounting rai | il TS 3 | 32 | | | | | | | 9821008000 |
| Mounting rai | il TS 3 | 35 | | | | | | | 9822011000 |
| Earthing rail | | | | | | | | | 9810010000 |
| External mou | untin | g bra | ckets | | | | | | 9824024000 |
| External artic | culate | ed hin | iges | | | | | | 9801047000 |
| Internal artic | ulate | d hin | ges w | ith co | ver g | juide [,] | +* | | 9801030000 |
| Silicone seal | for e | xtend | led te | mper | ature | range | e (by | the m | etre) on request |
| | | | | | | | | | |
| | | | | | | | | | |
| Maximum p | ossil | ole nu | ımbe | r of t | hread | ds | | | |
| ISO M | 12 | 16 | 20 | 25 | 32 | 40 | 50 | 63 | |
| Side A/B | 36 | 17 | 12 | 7 | 4 | 3 | 3 | 0 | |
| Side C/D | 8 | 4 | 3 | 2 | 2 | 0 | 0 | 0 | |
| ** Enclosure | ** Enclosure preparation required | | | | | | | | |
| | <u> </u> | | | | | | _ | | |



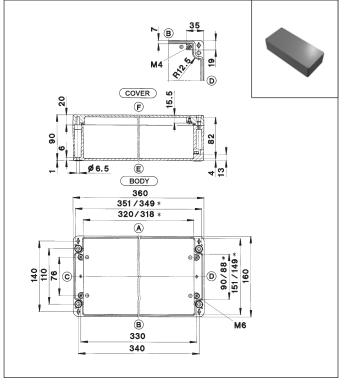
360 x 160 x 90 mm

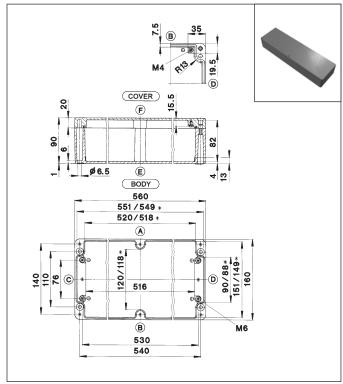
CA-310 Aluminium enclosures

560 x 160 x 90 mm

CAD files available at www.bernstein.eu

CA-330 Aluminium enclosures





^{*} Smaller dimension at mounting plate support

| Туре | | | | | | | | | | CA-310 |
|-----------------------------------|----------------|-------------|---------|---------|--------|--------|-------|-------|-------|----------------|
| Weight (g) | | | | | | | | | | 2550 |
| External dir | mensi | on (m | m) | | | | | | | 360 x 160 x 90 |
| Ordering of | lata E | Part number | | | | | | | | |
| with cover | screw | 1310000000 | | | | | | | | |
| unwashed, | not pa | 1310071000 | | | | | | | | |
| | | | | | | | | | | |
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| Accessorie | s (indi | ividua | ıl part | or in | stalla | tion k | it) | | | |
| Mounting p | olate | | | | | | | | | 9511175000 |
| Mounting r | ail TS | 15 | | | | | | | | - |
| Mounting r | ail TS | 32 | | | | | | | | 9821012000 |
| Mounting r | ail TS | 35 | | | | | | | | 9822015000 |
| Earthing ra | il | | | | | | | | | 9810042000 |
| External mo | ountin | ıg bra | ckets | | | | | | | 9824024000 |
| External art | iculat | ed hir | nges | | | | | | | 9801047000 |
| Internal art | iculate | ed hin | iges v | vith c | over g | guide | ** | | | 9801030000 |
| Silicone sea | al for e | xtend | led te | mper | ature | rang | e (by | the m | etre) | on request |
| | | | | | | | | | | |
| | | | | | | | | | | |
| Maximum | possi | ble n | umbe | er of t | hrea | ds | | | | |
| ISO M | 12 | 16 | 20 | 25 | 32 | 40 | 50 | 63 | | |
| Side A/B | 54 | 26 | 18 | 11 | 6 | 5 | 4 | 0 | | |
| Side C/D | 8 | 4 | 3 | 2 | 2 | 0 | 0 | 0 | | |
| ** Enclosure preparation required | | | | | | | | | | |

^{*} Smaller dimension at mounting plate support

| _ | | | | | | | | | | |
|-----------------------------------|---------|--------|------------|--------|--------|--------------------|---------------|-------|-------|----------------|
| Туре | | | | | | | | | | CA-330 |
| Weight (g) | | | | | | | | | | 4310 |
| External dim | ensi | on (m | m) | | | | | | | 560 x 160 x 90 |
| Ordering da | ita Ei | nclosu | ıre (p | ainted | d) wit | h seal | (PUF | ?) | | Part number |
| with cover so | rews | ; | | | | | | | | 1330000000 |
| unwashed, n | ot pa | | 1330022000 | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
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| | | | | | | | | | | |
| Accessories | (indi | vidua | l part | or in | stalla | tion k | it) | | | |
| Mounting pl | ate | | | | | | | | | 9511014000 |
| Mounting ra | il TS | 15 | | | | | | | | - |
| Mounting ra | il TS : | 32 | | | | | | | | 9821015000 |
| Mounting ra | il TS : | 35 | | | | | | | | 9822018000 |
| Earthing rail | | | | | | | | | | 9810016000 |
| External mou | untin | g bra | ckets | | | | | | | 9824024000 |
| External artic | culat | ed hir | nges | | | | | | | 9801047000 |
| Internal artic | ulate | d hin | ges v | ith co | over o | guide ³ | ×× | | | 9801030000 |
| Silicone seal | for e | xtend | led te | mper | ature | range | e (by | the m | etre) | on request |
| | | | | · | | | | | | • |
| | | | | | | | | | | |
| Maximum p | ossil | ole nu | ımbe | r of t | hrea | ds | | | | |
| ISO M | 12 | 16 | 20 | 25 | 32 | 40 | 50 | 63 | | |
| Side A/B | 84 | 40 | 28 | 16 | 10 | 8 | 6 | 0 | | |
| Side C/D | 8 | 4 | 3 | 2 | 2 | 0 | 0 | 0 | | |
| ** Enclosure preparation required | | | | | | | | | | |
| | | | | | | | | | | |

Aluminium Enclosures – Series CA

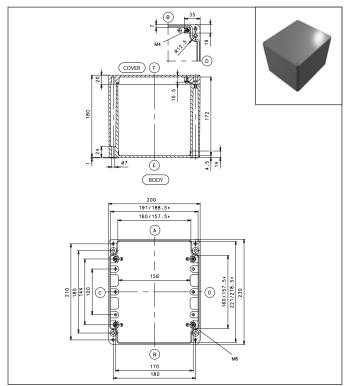
200 x 230 x 110 mm

CA-350 Aluminium enclosures

BODY 200 191/188.51 160/157.51 A BODY 200 191/188.51 160/157.51 A BODY A BODY A BODY BO

200 x 230 x 180 mm

CA-360 Aluminium enclosures



^{*} Smaller dimension at mounting plate support

| Туре | | | | | | | | | | CA-350 | | | | |
|--------------|-------------------|--------|--------|--------|--------|--------|--------|-----|-------|-----------------|--|--|--|--|
| Weight (g) | | | | | | | | | | 2730 | | | | |
| External di | mensio | on (m | m) | | | | | | | 200 x 230 x 110 | | | | |
| Ordering o | data E | nclosi | ıre (p | ainte | d) wit | h sea | I (PUF | ?) | | Part number | | | | |
| with cover | vith cover screws | | | | | | | | | | | | | |
| unwashed, | 1350017000 | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | |
| Accessorie | s (indi | vidua | l part | or in | stalla | tion k | it) | | | | | | | |
| Mounting p | olate | | | | | | | | | 9511015000 | | | | |
| Mounting r | rail TS | 15 | | | | | | | | - | | | | |
| Mounting r | rail TS : | 32 | | | | | | | | 9821003000 | | | | |
| Mounting r | rail TS | 35 | | | | | | | | 9822005000 | | | | |
| Earthing ra | il | | | | | | | | | 9810007000 | | | | |
| External me | ountin | g bra | ckets | | | | | | | 9824023000 | | | | |
| External ar | ticulat | ed hir | nges | | | | | | | 9801047000 | | | | |
| Internal art | iculate | d hin | iges v | vith c | over o | guide | ** | | | 9801030000 | | | | |
| Silicone sea | al for e | xtend | led te | mper | ature | rang | e (by | the | metre | e) on request | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| Maximum | possi | ble n | umbe | r of t | hrea | ds | | | | | | | | |
| ISO M | 12 | 16 | 20 | 25 | 32 | 40 | 50 | 63 | | | | | | |
| Side A/B | 35 | 15 | 12 | 8 | 4 | 3 | 2 | 2 | | | | | | |
| Side C/D | 26 | 12 | 8 | 5 | 3 | 2 | 2 | 1 | | | | | | |
| ** Enclosur | | 2-2+1 | on roc | uiroc | 1 | | | | | | | | | |

^{*} Smaller dimension at mounting plate support

| Туре | | | | | | | | | CA-360 | | | | |
|-----------------------------------|--------|----------|------------|--------|--------|---------------|-------|-------|-----------------|--|--|--|--|
| Weight (g) | | | | | | | | | 3680 | | | | |
| External dimens | sion (| mm) | | | | | | | 200 x 230 x 180 | | | | |
| Ordering data | Enclo | sure (pa | intec | l) wit | h seal | (PUF | ?) | | Part number | | | | |
| with cover screv | WS | | | | | | | | 1360000000 | | | | |
| unwashed, not | paint | | 1360043000 | | | | | | | | | | |
| | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | |
| Accessories (in | divid | ual part | or ins | tallat | tion k | it) | | | | | | | |
| Mounting plate | | | | | | | | | 9511015000 | | | | |
| Mounting rail T | S 15 | | | | | | | | - | | | | |
| Mounting rail T | S 32 | | | | | | | | 9821003000 | | | | |
| Mounting rail T | S 35 | | | | | | | | 9822005000 | | | | |
| Earthing rail | | | | | | | | | 9810007000 | | | | |
| External mount | ing b | rackets | | | | | | | 9824023000 | | | | |
| External articula | ated l | ninges | | | | | | | 9801047000 | | | | |
| Internal articula | ited h | ninges w | ith co | ver g | juide³ | (* | | | 9801030000 | | | | |
| Silicone seal for | exte | nded te | mpera | ature | range | e (by | the m | etre) | on request | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| Maximum pos | sible | numbe | r of tl | reac | ds | | | | | | | | |
| ISO M 12 | 2 16 | 5 20 | 25 | 32 | 40 | 50 | 63 | | | | | | |
| Side A/B 56 | 5 32 | 2 20 | 13 | 9 | 5 | 4 | 4 | | | | | | |
| Side C/D 52 | 2 27 | 7 18 | 12 | 8 | 5 | 3 | 3 | | | | | | |
| ** Enclosure preparation required | | | | | | | | | | | | | |



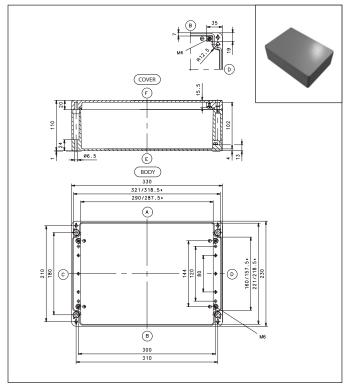
280 x 230 x 110 mm

330 x 230 x 110 mm

CAD files available at www.bernstein.eu

CA-370 Aluminium enclosures

CA-380 Aluminium enclosures



^{*} Smaller dimension at mounting plate support

| Туре | | | | | | | | | | CA-370 |
|--------------|----------|------------|--------|--------|--------|--------|--------|-------|-------|-----------------|
| Weight (g) | | | | | | | | | | 3840 |
| External di | mensi | on (m | m) | | | | | | | 280 x 230 x 110 |
| Ordering o | data E | nclosi | ıre (p | ainte | d) wit | h sea | I (PUF | ?) | | Part number |
| with cover | screws | 137000000 | | | | | | | | |
| unwashed, | not pa | 1370015000 | | | | | | | | |
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| | | | | | | | | | | |
| Accessorie | s (indi | vidua | l part | or in | stalla | tion k | it) | | | |
| Mounting | plate | | | | | | | | | 9511016000 |
| Mounting | rail TS | 15 | | | | | | | | - |
| Mounting | rail TS | 32 | | | | | | | | 9821009000 |
| Mounting | rail TS | 35 | | | | | | | | 9822012000 |
| Earthing ra | il | | | | | | | | | 9810011000 |
| External m | ountin | g bra | ckets | | | | | | | 9824023000 |
| External ar | ticulat | ed hir | nges | | | | | | | 9801047000 |
| Internal art | iculate | ed hin | ges v | vith c | over g | guide | ** | | | 9801030000 |
| Silicone sea | al for e | xtend | led te | mper | ature | rang | e (by | the m | etre) | on request |
| | | | | | | | | | | |
| | | | | | | | | | | |
| Maximum | possi | ble n | umbe | r of t | hrea | ds | | | | |
| ISO M | 12 | 16 | 20 | 25 | 32 | 40 | 50 | 63 | | |
| Side A/B | 53 | | | | | | | | | |
| Side C/D | 26 | 12 | 8 | 5 | 3 | 2 | 2 | 1 | | |
| ** Enclosur | e prep | | | | | | | | | |

^{*} Smaller dimension at mounting plate support

| Туре | | | | | | | | | | CA-380 |
|----------------|-----------------------------------|--------|------------|---------|--------|--------------------|----------------|------------|------------|-----------------|
| Weight (g) | | | | | | | | | | 4270 |
| External dim | ensic | n (mı | m) | | | | | | | 330 x 230 x 110 |
| Ordering da | ita Er | nclosu | ıre (pa | ainted |) wit | h seal | (PUR | () | | Part number |
| with cover so | rews | | | | | | | | | 1380000000 |
| unwashed, n | ot pa | | 1380014000 | | | | | | | |
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| | | | | | | | | | | |
| Accessories | (indi | vidua | l part | or ins | tallat | tion k | it) | | | |
| Mounting pl | ate | | | | | | | | | 9511017000 |
| Mounting ra | il TS 1 | 15 | | | | | | | | - |
| Mounting ra | il TS 3 | 32 | | | | | | | | 9821011000 |
| Mounting ra | il TS 3 | 35 | | | | | | | | 9822014000 |
| Earthing rail | | | | | | | | | | 9810013000 |
| External mou | nal mounting brackets | | | | | | | | 9824023000 | |
| External artic | culate | ed hin | iges | | | | | | | 9801047000 |
| Internal artic | ulate | d hin | ges w | ith co | ver g | juide [;] | * * | | | 9801030000 |
| Silicone seal | for e | xtend | ed te | mpera | ature | range | e (by | the m | etre) | on request |
| | | | | | | | | | | |
| | | | | | | | | | | |
| Maximum p | ossil | ole nu | ımbe | r of th | read | ds | | | | |
| ISO M | 12 | 16 | 20 | 25 | 32 | 40 | 50 | 63 | | |
| Side A/B | 65 | 30 | 23 | 12 | 9 | 5 | 4 | 3 | | |
| Side C/D | 24 | 12 | 8 | 5 | 3 | 2 | 2 | 1 | | |
| ** Enclosure | ** Enclosure preparation required | | | | | | | | | |
| | | | | | | | | | | |

Aluminium Enclosures – Series CA

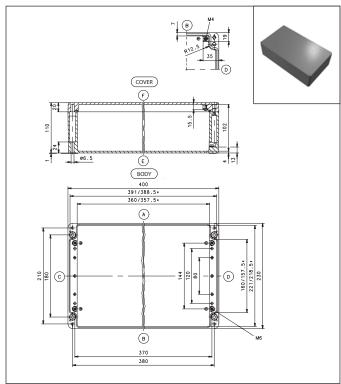
330 x 230 x 180 mm

CA-390 Aluminium enclosures

GODY 330 321/318.51 290/287.51 A B 35 321/318.51 290/287.51 A B 35 300 310

400 x 230 x 110 mm

CA-400 Aluminium enclosures



^{*} Smaller dimension at mounting plate support

| Туре | | | | | | | | | | CA-390 | | | |
|-----------------------------------|--|------------|---------|--------|--------|--------|-------|-------|-------|-----------------|--|--|--|
| Weight (g) |) | | | | | | | | | 5300 | | | |
| External d | imensi | on (m | m) | | | | | | | 330 x 230 x 180 | | | |
| Ordering | rdering data Enclosure (painted) with seal (PUR) | | | | | | | | | | | | |
| with cover | screw | 5 | | | | | | | | 1390000000 | | | |
| unwashed | 1390012000 | | | | | | | | | | | | |
| | , | | | | | | | | | | | | |
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| | | | | | | | | | | | | | |
| Accessori | es (indi | ividua | ıl part | or in | stalla | tion k | it) | | | | | | |
| Mounting | plate | | | | | | | | | 9511017000 | | | |
| Mounting | rail TS | 15 | | | | | | | | - | | | |
| Mounting | rail TS | rail TS 32 | | | | | | | | 9821011000 | | | |
| Mounting | unting rail TS 35 | | | | | | | | | 9822014000 | | | |
| Earthing ra | ail | | | | | | | | | 9810013000 | | | |
| External m | nountin | ıg bra | ckets | | | | | | | 9824023000 | | | |
| External a | rticulat | ed hir | nges | | | | | | | 9801047000 | | | |
| Internal ar | ticulate | ed hin | iges v | vith c | over o | guide | ** | | | 9801030000 | | | |
| Silicone se | al for e | xtenc | led te | mper | ature | rang | e (by | the m | etre) | on request | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| Maximum | possi | ble n | umbe | r of t | hrea | ds | | | | | | | |
| ISO M | 12 | 16 | 20 | 25 | 32 | 40 | 50 | 63 | | | | | |
| Side A/B | 108 | 54 | 40 | 25 | 15 | 9 | 8 | 6 | | | | | |
| Side C/D | 52 | 27 | 18 | 12 | 8 | 5 | 3 | 3 | | | | | |
| ** Enclosure preparation required | | | | | | | | | | | | | |

^{*} Smaller dimension at mounting plate support

| Туре | | | | | | | | | | CA-400 | | | |
|-----------------------------------|--------|--------|------------|---------|--------|------|------|-------|--------|-----------------|--|--|--|
| Weight (g) | | | | | | | | | | 4870 | | | |
| External dimen | sion | (mm) | | | | | | | | 400 x 230 x 110 | | | |
| Ordering data | Encl | osure | (pain | ited) v | vith s | eal | (PUF | ?) | | Part number | | | |
| with cover scre | WS | | | | | | | | | 140000000 | | | |
| unwashed, not | pain | | 1400013000 | | | | | | | | | | |
| | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | |
| Accessories (in | divic | lual p | art or | insta | llatio | n ki | t) | | | | | | |
| Mounting plate | | | | | | | | | | 9511294000 | | | |
| Mounting rail T | S 15 | | | | | | | | | - | | | |
| Mounting rail T | S 32 | | | | | | | | | 9821014000 | | | |
| Mounting rail T | S 35 | | | | | | | | | 9822017000 | | | |
| Earthing rail | | | | | | | | | | 9810015000 | | | |
| External mount | ting k | oracke | ets | | | | | | | 9824023000 | | | |
| External articul | ated | hinge | es es | | | | | | | 9801047000 | | | |
| Internal articula | ated I | hinge | s with | cove | r gui | de* | * | | | 9801030000 | | | |
| Silicone seal for | rexte | ended | temp | oeratu | ıre ra | nge | (by | the n | netre) | on request | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| Maximum pos | | | | | | | | | | | | | |
| ISO M 12 | 2 1 | 6 2 | 0 2 | 5 3 | 2 4 | 0 | 50 | 63 | | | | | |
| Side A/B 80 | 3 3 | 8 2 | 7 1 | 7 1 | 1 | 6 | 5 | 4 | | | | | |
| Side C/D 26 | 5 1 | 2 | 8 | 5 | 3 | 2 | 2 | 1 | | | | | |
| ** Enclosure preparation required | | | | | | | | | | | | | |



600 x 230 x 110 mm

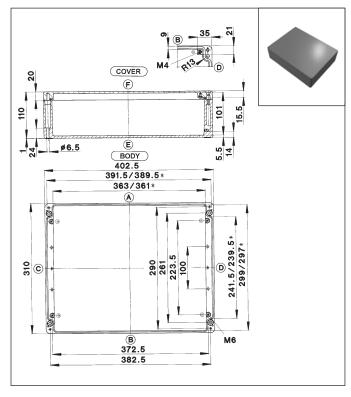
CA-420 Aluminium enclosures

М6

402,5 x 310 x 110 mm

CA-450 Aluminium enclosures

CAD files available at www.bernstein.eu



(B)

| Туре | | | | | | | | CA-420 | | | | | |
|--|------------------------------|---------|-----------------|--------|---------|----------------|----------|-------------|--|--|--|--|--|
| Weight (g) | | | | | | | | 6380 | | | | | |
| External dimen | external dimension (mm) | | | | | | | | | | | | |
| Ordering data | Enclos | ure (p | ainte | d) wit | h seal | l (PUF | () | Part number | | | | | |
| with cover scre | WS | | | | | | | 1420000000 | | | | | |
| Unwashed, not | painte | d, loos | se acc | essor | ies | | | 1420011000 | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| Accessories (in | | al part | or in | stalla | tion k | it) | | | | | | | |
| Mounting plate | | | | | | | | 9511019000 | | | | | |
| Mounting rail T | | | | | | | | - | | | | | |
| Mounting rail T | | | | | | | | 9821016000 | | | | | |
| Mounting rail T | S 35 | | | | | | | 9822019000 | | | | | |
| Earthing rail | | | | | | | | 9810017000 | | | | | |
| External moun | ing bra | ckets | | | | | | 9824023000 | | | | | |
| zaterria: rrio arr | atad bir | nges | | | | | | 9801047000 | | | | | |
| | ated IIII | | | | و ما ما | * * | | 9801030000 | | | | | |
| External articul | | iges v | vith co | over c | juide | | | 3001030000 | | | | | |
| External articul | ted hir | _ | | | | | the metr | | | | | | |
| External articul Internal articul | ted hir | _ | | | | | the metr | | | | | | |
| External articul Internal articul Silicone seal fo | extenc | ded te | mper | ature | rang | | the metr | | | | | | |
| External articul Internal articul Silicone seal fo Maximum pos | extend | ded te | mper | ature | rang | e (by | | | | | | | |
| External articul Internal articul Silicone seal fo Maximum pos ISO M 1: | extend extend sible no | umbe | mper er of t | hread | rang | 50 | 63 | | | | | | |
| External articul Internal articul Silicone seal fo Maximum pos | sible no | umbe | mper er of t | ature | rang | 50 8 | | | | | | | |

^{*} Smaller dimension at mounting plate support

| | | | | | | | | | | | _ | | |
|----------------|---------------|-------------------|------------|--------|-------|--------------------|----------------|-------|-------|------------|---|--|--|
| Туре | | | | | | | | | | CA-450 | | | |
| Weight (g) | | 5810 | | | | | | | | | | | |
| External dim | ensio | 402,5 x 310 x 110 | | | | | | | | | | | |
| Ordering da | ata Er | Part number | | | | | | | | | | | |
| with cover so | crews | 1450000000 | | | | | | | | | | | |
| Unwashed, r | not pa | 1450025000 | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| Accessories | (indi | vidua | l part | or ins | talla | tion k | it) | | | | | | |
| Mounting pl | ate | | 9511020000 | | | | | | | | | | |
| Mounting ra | il TS 1 | 15 | | | | | | | | - | | | |
| Mounting ra | il TS 3 | 32 | | | | | | | | 9821014000 | | | |
| Mounting ra | il TS 3 | 35 | | | | | | | | 9822017000 | | | |
| Earthing rail | | | | | | | | | | 9810015000 | | | |
| External mo | untin | g bra | ckets | | | | | | | 9824023000 | | | |
| External arti | culate | ed hir | iges | | | | | | | 9801047000 | | | |
| Internal artic | ulate | d hin | ges w | ith co | ver g | guide ³ | K X | | | 9801030000 | | | |
| Silicone seal | for e | xtend | led te | mper | ature | range | e (by | the m | etre) | on request | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| Maximum p | ossil | ole nu | ımbe | r of t | hrea | ds | | | | | | | |
| ISO M | 12 | 16 | 20 | 25 | 32 | 40 | 50 | 63 | | | | | |
| Side A/B | 80 | 38 | 27 | 17 | 11 | 6 | 5 | 4 | | | | | |
| Side C/D | 38 | | | | | | | | | | | | |
| ** Enclosure | prep | aratio | n rec | uired | | | | | | | | | |
| | | | | | | | - | | | | | | |

^{*} Smaller dimension at mounting plate support

Aluminium Enclosures – Series CA

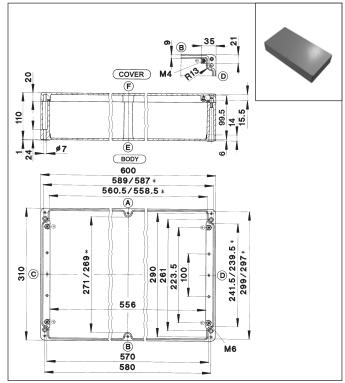
402,5 x 310 x 180 mm

CA-460 Aluminium enclosures

310 B 310 B 310 B 310 B 310 B 310 B 311.5/389.5* 363/361* A A 372.5 382.5 M6 372.5 382.5

600 x 310 x 110 mm

CA-470 Aluminium enclosures



^{*} Smaller dimension at mounting plate support

| Туре | | | | | | | | | | CA-460 | | |
|--|---|--------|--------|--------|--------|--------|-------|-------|-------|------------|--|--|
| Weight (g) | Veight (g) xternal dimension (mm) | | | | | | | | | | | |
| External d | 402,5 x 310 x 180 | | | | | | | | | | | |
| Ordering | Ordering data Enclosure (painted) with seal (PUR) | | | | | | | | | | | |
| with cover | screw | 5 | | | | | | | | 1460000000 | | |
| unwashed, not painted, loose accessories | | | | | | | | | | 1460049000 | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| Accessori | • | ividua | l part | or in | stalla | tion k | it) | | | | | |
| Mounting | | | | | | | | | | 9511020000 | | |
| Mounting | | | | | | | | | | - | | |
| Mounting | | | | | | | | | | 9821014000 | | |
| Mounting | | 35 | | | | | | | | 9822017000 | | |
| Earthing ra | | | | | | | | | | 9810015000 | | |
| External m | | _ | | | | | | | | 9824023000 | | |
| External a | | | | | | | | | | 9801047000 | | |
| Internal ar | | | | | | | | | | 9801030000 | | |
| Silicone se | al for e | xtenc | led te | mper | ature | rang | e (by | the m | etre) | on request | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| Maximum | • | | | | | | | | | | | |
| ISO M | 12 | 16 | 20 | 25 | 32 | 40 | 50 | 63 | | | | |
| Side A/B | | 68 | | | 21 | 12 | 10 | 8 | | | | |
| Side C/D | 74 | 38 | 28 | | 12 | 8 | 6 | 3 | | | | |
| ** Enclosu | re prep | aratio | on rec | quirec | ł | | | | | | | |

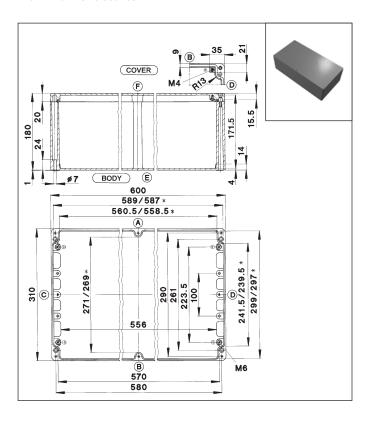
^{*} Smaller dimension at mounting plate support

| Туре | | | | | | | | | | CA-470 | | |
|---|----------|-----------------|------------|--------|--------|--------------------|-------|--------|-------|------------|--|--|
| Weight (g) | | | | | | | | | | 8480 | | |
| External di | mensio | 600 x 310 x 110 | 0 | | | | | | | | | |
| Ordering | data Er | Part number | | | | | | | | | | |
| with cover | screws | 1470000000 | | | | | | | | | | |
| unwashed, | , not pa | 1470062000 | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| Accessories (individual part or installation kit) | | | | | | | | | | | | |
| Mounting | plate | | 9511021000 | | | | | | | | | |
| Mounting | rail TS | 15 | | | | | | | | - | | |
| Mounting | rail TS | 32 | | | | | | | | 9821016000 | | |
| Mounting | rail TS | 35 | | | | | | | | 9822019000 | | |
| Earthing ra | ail | | | | | | | | | 9810017000 | | |
| External m | ountin | g bra | ckets | | | | | | | 9824023000 | | |
| External ar | ticulat | ed hir | nges | | | | | | | 9801047000 | | |
| Internal art | ticulate | ed hin | ges v | vith c | over o | guide [†] | ** | | | 9801030000 | | |
| Silicone se | al for e | xtend | led te | mper | ature | rang | e (by | the me | etre) | on request | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| Maximum | possil | ble nı | umbe | r of t | hrea | ds | | | | | | |
| ISO M | 12 | 16 | 20 | 25 | 32 | 40 | 50 | 63 | | | | |
| Side A/B | 120 | 56 | 42 | 24 | 16 | 8 | 8 | 6 | | | | |
| Side C/D | 38 | | | | | | | | | | | |
| ** Enclosure preparation required | | | | | | | | | | | | |
| | | | | | | | | | | | | |



600 x 310 x 180 mm

CA-480 Aluminium enclosures



* Smaller dimension at mounting plate support

| Туре | CA-480 |
|---|-----------------|
| Weight (g) | 10840 |
| External dimension (mm) | 600 x 310 x 180 |
| Ordering data Enclosure (painted) with seal (PUR) | Part number |
| with cover screws | 1480000000 |
| unwashed, not painted, loose accessories | 1480017000 |
| | |
| | |
| | |
| | |
| | |
| | |
| Accessories (individual part or installation kit) | |
| Mounting plate | 9511021000 |
| Mounting rail TS 15 | - |
| Mounting rail TS 32 | 9821016000 |
| Mounting rail TS 35 | 9822019000 |
| Earthing rail | 9810017000 |
| External mounting brackets | 9824023000 |
| External articulated hinges | 9801047000 |
| Internal articulated hinges with cover guide** | 9801030000 |
| Silicone seal for extended temperature range (by the metre) | on request |
| | |
| | |
| Maximum possible number of threads | |
| ISO M 12 16 20 25 32 40 50 63 | |
| Side A/B 200 100 76 46 30 18 14 12 | |
| Side C/D 74 38 28 18 12 8 6 5 | |
| ** Enclosure preparation required | |

Polycarbonate and ABS Enclosures – Series CT

BERNSTEIN Series CT plastic enclosures are manufactured from high-grade polycarbonate or ABS. They are particularly suitable for encapsulating electrical and electronic components as well as complete small-scale controllers. All enclosures are available with a transparent polycarbonate cover. The enclosures correspond to protection class IP 65 in accordance with DIN EN 60529.

Attachment bosses are provided on the base of the plastic enclosures for mounting built-in components. The components can be simply secured with the self-tapping mounting screws that come with the enclosure. With their attachment bosses in the base, BERNSTEIN plastic enclosures offer many direct mounting options. Mounting rails can be installed without mounting plates on the central bosses.

BERNSTEIN Series CT enclosures are supplied as standard with the quick-release fastener developed and patented by BERNSTEIN. The quick-release fasteners that come with the enclosure are simply pressed and locked into the holes in the cover. They are made from stainless steel. The protection class (on the standard enclosure) is ensured by a factory-fitted seal. BERNSTEIN polycarbonate and ABS enclosures are produced as standard in the colour RAL 7035 (light grey). On account of its material properties, the polycarbonate version offers specific advantages in terms of impact strength, UV resistance and operating temperature range. Thanks to the many attachment bosses in the body, both versions provide many direct mounting

Technical data

Material

Polycarbonate, transparent polycarbonate or ABS

Seal

Foamed PUR seal Neoprene (CR) round cord (silicone-free) Silicone round cord

Quick-release fastener

Stainless steel, self-locking, cross recessed head

Optionally:

Stainless steel cover screw, cross recessed head Sealed cover screws, galvanised steel, (9 S 20 K), slot head

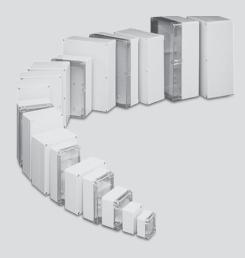
Colou

RAL 7035 (light grey)

Other colours (dyeing) for large quantities available on request

Temperature range of CT enclosures

- -40°C to +120°C (Polycarbonate)
- -40°C to +80°C (ABS)



Temperature range of seals

Standard:

-40°C to +100°C (PUR seal)

Optionally:

- -30°C to +80°C (Neoprene seal)
- -60°C to +130°C (silicone seal)

Protection class

IP 65

Approbations

(Label on demand)

c UL us (polycarbonate enclosures)

c CSA us (polycarbonate enclosures)



| | | | | | Polycarbonate er | nclosure | Polycarbonate er transparent cove | | ABS enclosure | | ABS enclosure wi transparent cove | - |
|------|------|-------|---|-----|------------------|----------|--------------------------------------|----------|----------------|--------|--------------------------------------|----------|
| Dime | nsic | ns/mn | n | | Article number | Туре | Article number | Туре | Article number | Туре | Article number | Туре |
| L | х | W | х | Н | | | | | | | | |
| 52 | Х | 50 | Х | 35 | 2500000000 | CT-501 | 2501000000 | CT-501 T | 3500000000 | CT-502 | 3501000000 | CT-502 T |
| 65 | Х | 50 | Х | 35 | 2520000000 | CT-521 | 2521000000 | CT-521 T | 3520000000 | CT-522 | 3521000000 | CT-522 T |
| 82 | Х | 80 | Х | 55 | 2540000000 | CT-541 | 2541000000 | CT-541 T | 3540000000 | CT-542 | 3541000000 | CT-542 T |
| 82 | Х | 80 | Х | 85 | 2560000000 | CT-561 | 2561000000 | CT-561 T | 3560000000 | CT-562 | 3561000000 | CT-562 T |
| 120 | Х | 80 | Х | 55 | 2580000000 | CT-581 | 2581000000 | CT-581 T | 3580000000 | CT-582 | 3581000000 | CT-582 T |
| 120 | Х | 80 | Х | 85 | 2600000000 | CT-601 | 2601000000 | CT-601 T | 3600000000 | CT-602 | 3601000000 | CT-602 T |
| 160 | Х | 80 | Х | 55 | 2620000000 | CT-621 | 2621000000 | CT-621 T | 3620000000 | CT-622 | 3621000000 | CT-622 T |
| 160 | Х | 80 | Х | 85 | 2640000000 | CT-641 | 2641000000 | CT-641 T | 3640000000 | CT-642 | 3641000000 | CT-642 T |
| 122 | Х | 120 | Х | 55 | 2660000000 | CT-661 | 2661000000 | CT-661 T | 3660000000 | CT-662 | 3661000000 | CT-662 T |
| 122 | Х | 120 | Х | 85 | 2680000000 | CT-681 | 2681000000 | CT-681 T | 3680000000 | CT-682 | 3681000000 | CT-682 T |
| 160 | Х | 120 | Х | 90 | 2720000000 | CT-721 | 2721000000 | CT-721 T | 3720000000 | CT-722 | 3721000000 | CT-722 T |
| 200 | Х | 120 | Х | 75 | 2760000000 | CT-761 | 2761000000 | CT-761 T | 3760000000 | CT-762 | 3761000000 | CT-762 T |
| 200 | Х | 120 | Х | 90 | 2780000000 | CT-781 | 2781000000 | CT-781 T | 3780000000 | CT-782 | 3781000000 | CT-782 T |
| 240 | Х | 120 | Х | 100 | 2800000000 | CT-801 | 2801000000 | CT-801 T | 3800000000 | CT-802 | 3801000000 | CT-802 T |
| 200 | Х | 150 | Х | 75 | 2820000000 | CT-821 | 2821000000 | CT-821 T | 3820000000 | CT-822 | 3821000000 | CT-822 T |
| 240 | Х | 160 | Х | 90 | 2840000000 | CT-841 | 2841000000 | CT-841 T | 3840000000 | CT-842 | 3841000000 | CT-842 T |
| 240 | Х | 160 | Х | 120 | 2860000000 | CT-861 | 2861000000 | CT-861 T | 3860000000 | CT-862 | 3861000000 | CT-862 T |
| 250 | Х | 160 | Х | 90 | 2900000000 | CT-901 | 2901000000 | CT-901 T | 390000000 | CT-902 | 3901000000 | CT-902 T |
| 250 | х | 160 | х | 120 | 2910000000 | CT-911 | 2911000000 | CT-911 T | 3910000000 | CT-912 | 3911000000 | CT-912 T |
| 360 | Х | 200 | Х | 150 | 2880000000 | CT-881 | 2881000000 | CT-881 T | 3880000000 | CT-882 | 3881000000 | CT-882 T |
| 300 | х | 230 | х | 86 | 2870000000 | CT-871 | 2871000000 | CT-871 T | 3870000000 | CT-872 | 3871000000 | CT-872 T |
| 300 | Х | 230 | Х | 110 | 289000000 | CT-891 | 2891000000 | CT-891 T | 3890000000 | CT-892 | 3891000000 | CT-892 T |

Assembling of components



This is just a selection of possible assembly components that BERNSTEIN offers. Contact us, we can incorporate components from all leading manufacturers to satisfy your individual demand. You find further information about "System solutions" on page 12.



Mounting plates

Made from laminated paper (Pertinax) (thickness: CT-50 to CT-60: 1.5 mm; CT-62 to CT-78: 2.0 mm; CT-80 to CT-91; 2.5 mm) for versatile mounting of built-in components.



Mounting rails

conforming to standards TS15 or TS32 and TS 35 made from steel; surface treated for accepting terminal blocks.



Terminal blocks

of all renowned manufacturers are used.



Earthing bars

made from galvanised steel for combining and connecting PE conductors.



External mounting brackets

made from polycarbonate for mounting enclosures without opening the covers. Different bracket arrangement options offset by 90°. Colour RAL 7035.



External articulated hinges

made from polycarbonate for hinged mounting of enclosure cover. Opening range of cover approx. 195°, latching at 170°, articulated hinges are simply pressed into holes (CT-88: secured by screws).



Flexible quick-release fastener/internal articulated hinges

for captive mounting and strain relief for enclosure cover. Cover opening range > 180°. Stainless steel with injection-moulded polyamide ends.



Silicon, EPDM or HF seal

with increased temperature resistance (see indications left side) or to protect sensitive electronic equipment against high-frequency radiation (HF seal). If a HF seal is used, an additional coating of the inside of the enclosure is required.



Brass press-in bushes

with metric fastening screws M3 (M4 on CT-88), for mounting built-in components with metric screws in the mounting bushes in the enclosure body.



Cable glands

Euro-2000 (Euro-Top) screwed cable glands, plastic (polyamide 6, RAL 7035), including integrated strain relief. Sealing element NEOPRENE. Temperature range: –30°C bis +80°C (see also page 71). Other cable glands on demand.



Polycarbonate and ABS Enclosures – Series CT

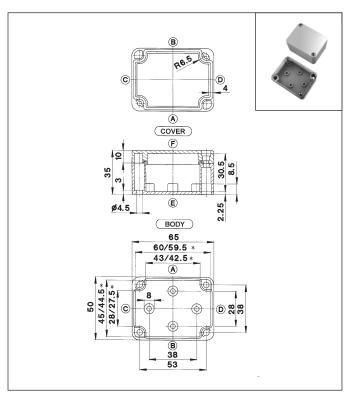
52 x 50 x 35 mm

CT-501 Polycarbonate enclosures CT-502 ABS enclosures

BODY 52 47/46.5* 30/29.5* BODY 52 47/46.5* 30/29.5* BB 16.4 40

65 x 50 x 35 mm

CT-521 Polycarbonate enclosures CT-522 ABS enclosures



^{*} Smaller dimension at mounting plate support

| Туре | | | | | | | | | | CT-501 PC | CT-502 ABS | | |
|--------------|----------------|-----------|--------|---------|--------|--------|--------|---------|------|--------------|------------|--|--|
| Weight (g) | | | | | | | | | | 40 (PC) | 38 (ABS) | | |
| External dir | nensio | on (m | m) | | | | | | | 52 x 50 x 35 | | | |
| Ordering d | lata Er | Part numb | er | | | | | | | | | | |
| PC, with qu | ick-rel | 25000000 | 00 | | | | | | | | | | |
| PC, with sci | ew fas | 25000010 | 00 | | | | | | | | | | |
| PC, with tra | nspar | ent co | over (| PC) ar | nd qu | ick-re | lease | fastene | er | 25010000 | 00 | | |
| ABS, with o | uick-r | eleas | e fast | ener | | | | | | 35000000 | 00 | | |
| ABS, with s | crew f | asten | er | | | | | | | 35000010 | 00 | | |
| ABS, with t | ranspa | arent | cover | (PC) | and q | uick- | releas | e faste | ner | 35010000 | 00 | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| Accessorie | s (indi | vidua | l part | or in | stalla | tion k | (it) | | | | | | |
| Mounting p | olate | | | | | | | | | 95120090 | 00 | | |
| Mounting r | ail TS 1 | 15 | | | | | | | | - | | | |
| Mounting r | ail TS 3 | 32 | | | | | | | | - | | | |
| Mounting r | ail TS 3 | 35 | | | | | | | | - | | | |
| Earthing rai | il (secu | ured c | n cer | itral b | osse | s C/D) |) | | | - | | | |
| External mo | ountin | g bra | ckets | | | | | | | - | | | |
| External art | iculate | ed hir | nges* | * | | | | | | - | | | |
| Internal art | iculate | ed hin | ges, f | lexibl | e, | | | | | | | | |
| for enclosu | re with | n quic | k-rele | ase f | asten | er | | | | - | | | |
| Silicone sea | l for e | xtend | led te | mper | ature | rang | e (by | the me | tre) | - | | | |
| Mounting b | oushes | with | 4 scr | ews N | 13 x 8 | | | | | - | | | |
| Maximum | possil | ble ni | umbe | r of t | hrea | ds | | | | | | | |
| ISO M | 12 | 16 | 20 | 25 | 32 | 40 | 50 | 63 | | | | | |
| Side A/B | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | |
| Side C/D | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | |
| ** Enclosur | e prep | aratio | on rec | uired | | | | | | | | | |

^{*} Smaller dimension at mounting plate support

| Туре | CT-521 PC CT-522 ABS | | | | | | | | | | |
|--|----------------------|--|--|--|--|--|--|--|--|--|--|
| Weight (g) | 50 (PC) 47 (ABS) | | | | | | | | | | |
| External dimension (mm) | 65 x 50 x 35 | | | | | | | | | | |
| Ordering data Enclosure (painted) with seal (PUR) | Part number | | | | | | | | | | |
| PC, with quick-release fastener | 2520000000 | | | | | | | | | | |
| PC, with screw fastener | 2520001000 | | | | | | | | | | |
| PC , with transparent cover (PC) and quick-release fastener | 2521000000 | | | | | | | | | | |
| ABS, with quick-release fastener | 3520000000 | | | | | | | | | | |
| ABS, with screw fastener | 3520001000 | | | | | | | | | | |
| ABS, with transparent cover (PC) and quick-release fastene | r 3521000000 | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| Accessories (individual part or installation kit) | | | | | | | | | | | |
| Mounting plate | 9512010000 | | | | | | | | | | |
| Mounting rail TS 15 | 9820001000 | | | | | | | | | | |
| Mounting rail TS 32 | - | | | | | | | | | | |
| Mounting rail TS 35 | - | | | | | | | | | | |
| Earthing rail (secured on central bosses C/D) – | | | | | | | | | | | |
| External mounting brackets | _ | | | | | | | | | | |
| External articulated hinges** | - | | | | | | | | | | |
| Internal articulated hinges, flexible, | | | | | | | | | | | |
| for enclosure with quick-release fastener | - | | | | | | | | | | |
| Silicone seal for extended temperature range (by the metre | e) – | | | | | | | | | | |
| Mounting bushes with 4 screws M3 x 8 | 9800025000 | | | | | | | | | | |
| Maximum possible number of threads | | | | | | | | | | | |
| ISO M 12 16 20 25 32 40 50 63 | | | | | | | | | | | |
| Side A/B 2 0 0 0 0 0 0 0 | | | | | | | | | | | |
| Side C/D 0 0 0 0 0 0 0 | | | | | | | | | | | |
| ** Enclosure preparation required | | | | | | | | | | | |

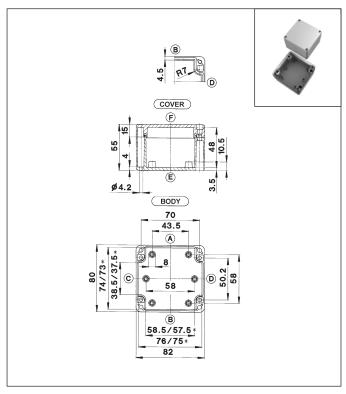


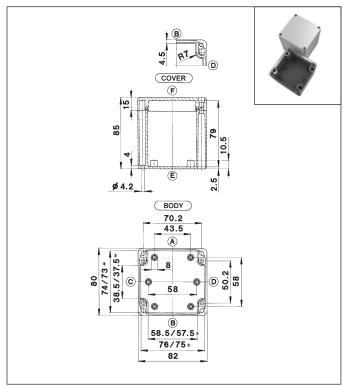
82 x 80 x 55 mm

CT-541 Polycarbonate enclosures CT-542 ABS enclosures

82 x 80 x 85 mm

CT-561 Polycarbonate enclosures CT-562 ABS enclosures





^{*} Smaller dimension at mounting plate support

| Туре | | | | | | | | CT-541 PC | CT-542 ABS | | |
|---|--------------|---------|---------|--------|---------|--------|------------|-----------|------------|--|--|
| Weight (g) | | | | | | | | 140 (PC) | 116 (ABS) | | |
| External dimen | 82 x 80 x 55 | | | | | | | | | | |
| Ordering data | Part number | | | | | | | | | | |
| PC, with quick- | 25400000 | 00 | | | | | | | | | |
| PC, with screw t | 25400010 | 00 | | | | | | | | | |
| PC, with transp | 25410000 | 00 | | | | | | | | | |
| ABS, with quick | releas | e faste | ener | | | | | 35400000 | 00 | | |
| ABS, with screv | v faster | ner | | | | | | 35400010 | 00 | | |
| ABS, with trans | parent | cover | (PC) | and q | ıuick-ı | releas | e fastener | 35410000 | 00 | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| Accessories (individual part or installation kit) | | | | | | | | | | | |
| Mounting plate | | | | | | | | 95120110 | 00 | | |
| Mounting rail T | S 15 | | | | | | | 98200040 | 00 | | |
| Mounting rail T | S 32 | | | | | | | - | | | |
| Mounting rail T | S 35 | | | | | | | 98220000 | 00 | | |
| Earthing rail (se | cured o | on cer | itral b | osses | s C/D) | | | - | | | |
| External mount | ing bra | ckets | | | | | | 98020020 | 00 | | |
| External articula | ated hi | nges* | * | | | | | 98020250 | 00 | | |
| Internal articula | ited hir | nges, f | lexibl | e, | | | | | | | |
| for enclosure w | ith qui | ck-rele | ease fa | asten | er | | | 98010760 | 00 | | |
| Silicone seal for | extend | ded te | mper | ature | rang | e (by | the metre) | on reques | t | | |
| Mounting bush | es with | 4 scr | ews N | 13 x 8 | | | | 98000250 | 00 | | |
| Maximum pos | sible n | umbe | r of t | hrea | ds | | | | | | |
| ISO M 12 | 16 | 20 | 25 | 32 | 40 | 50 | 63 | | | | |
| Side A/B 5 | 5 2 | | | | | | | | | | |
| Side C/D 2 | 2 1 | 0 | | | | | | | | | |
| ** Enclosure pre | eparati | on rec | uired | | | | | | | | |

^{*} Smaller dimension at mounting plate support

| Туре | CT-561 PC CT-562 ABS | | | | | | | | | | |
|---|----------------------|--|--|--|--|--|--|--|--|--|--|
| Weight (g) | 175 (PC) 150 (ABS) | | | | | | | | | | |
| External dimension (mm) | 82 x 80 x 85 | | | | | | | | | | |
| Ordering data Enclosure (painted) with seal (PUR) | Part number | | | | | | | | | | |
| PC, with quick-release fastener | 2560000000 | | | | | | | | | | |
| PC, with screw fastener | 2560001000 | | | | | | | | | | |
| PC, with transparent cover (PC) and quick-release fastener | 2561000000 | | | | | | | | | | |
| ABS, with quick-release fastener | 3560000000 | | | | | | | | | | |
| ABS, with screw fastener | 3560001000 | | | | | | | | | | |
| ABS, with transparent cover (PC) and quick-release fastener | 3561000000 | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| Accessories (individual part or installation kit) | | | | | | | | | | | |
| Mounting plate | 9512011000 | | | | | | | | | | |
| Mounting rail TS 15 | 9820004000 | | | | | | | | | | |
| Mounting rail TS 32 | - | | | | | | | | | | |
| Mounting rail TS 35 | 9822000000 | | | | | | | | | | |
| Earthing rail (secured on central bosses C/D) | - | | | | | | | | | | |
| External mounting brackets | 9802002000 | | | | | | | | | | |
| External articulated hinges** | 9802025000 | | | | | | | | | | |
| Internal articulated hinges, flexible, | | | | | | | | | | | |
| for enclosure with quick-release fastener | 9801076000 | | | | | | | | | | |
| Silicone seal for extended temperature range (by the metre) | on request | | | | | | | | | | |
| Mounting bushes with 4 screws M3 x 8 | 9800025000 | | | | | | | | | | |
| Maximum possible number of threads | | | | | | | | | | | |
| ISO M 12 16 20 25 32 40 50 63 | | | | | | | | | | | |
| Side A/B 10 5 3 2 1 1 1 0 | | | | | | | | | | | |
| Side C/D 5 2 1 1 1 0 0 0 | | | | | | | | | | | |
| ** Enclosure preparation required | | | | | | | | | | | |

Polycarbonate and ABS Enclosures – Series CT

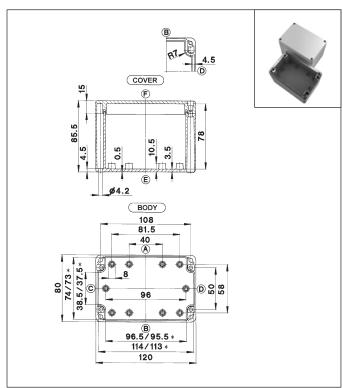
120 x 80 x 55 mm

CT-581 Polycarbonate enclosures CT-582 ABS enclosures

BODY 108.2 81.5 40 A) 108.2 81.5 40 A) BODY 114./13* 120

120 x 80 x 85 mm

CT-601 Polycarbonate enclosures CT-602 ABS enclosures



^{*} Smaller dimension at mounting plate support

| Туре | CT-581 PC CT-582 ABS |
|---|----------------------|
| Weight (g) | 180 (PC) 135 (ABS) |
| External dimension (mm) | 120 x 80 x 55 |
| Ordering data Enclosure (painted) with seal (PUR) | Part number |
| PC, with quick-release fastener | 2580000000 |
| PC, with screw fastener | 2580001000 |
| PC, with transparent cover (PC) and quick-release fastener | 2581000000 |
| ABS, with quick-release fastener | 3580000000 |
| ABS, with screw fastener | 3580001000 |
| ABS, with transparent cover (PC) and quick-release fastener | 3581000000 |
| | |
| | |
| Accessories (individual part or installation kit) | |
| Mounting plate | 9512012000 |
| Mounting rail TS 15 | 9820009000 |
| Mounting rail TS 32 | - |
| Mounting rail TS 35 | 9822002000 |
| Earthing rail (secured on central bosses C/D) | 9810001000 |
| External mounting brackets | 9802002000 |
| External articulated hinges** | 9802025000 |
| Internal articulated hinges, flexible, | |
| for enclosure with quick-release fastener | 9801076000 |
| Silicone seal for extended temperature range (by the metre) | auf Anfrage |
| Mounting bushes with 4 screws M3 x 8 | 9800040000 |
| Maximum possible number of threads | |
| ISO M 12 16 20 25 32 40 50 63 | |
| Side A/B 9 4 3 2 0 0 0 0 | |
| Side C/D 2 1 1 0 0 0 0 0 | |
| ** Enclosure preparation required | |

^{*} Smaller dimension at mounting plate support

| Type | | CT-601 PC | CT-602 ABS | | | | | | | | | |
|--------------------------|----------|------------|------------|-----------|--------|--------|-------|---------|----|--------------|----|--|
| Weight (g) | | | 225 (PC) | 192 (ABS) | | | | | | | | |
| External dime | ension | (mn | ո) | | | | | | | 120 x 80 x 8 | 35 | |
| Ordering dat | a Enc | losui | re (pa | inted |) with | n seal | (PUR |) | | Part number | | |
| PC, with quic | k-rele | 2600000000 | | | | | | | | | | |
| PC, with screv | 26000010 | 00 | | | | | | | | | | |
| PC, with trans | parer | | 26010000 | 00 | | | | | | | | |
| ABS, with qui | ck-rel | | 36000000 | 00 | | | | | | | | |
| ABS, with scre | ew fas | | 36000010 | 00 | | | | | | | | |
| ABS, with trai | nspar | er | 36010000 | 00 | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| Accessories (| indivi | | | | | | | | | | | |
| Mounting pla | te | | | | | | | | | 95120120 | 00 | |
| Mounting rail | TS 15 | ; | | | | | | | | 98200090 | 00 | |
| Mounting rail | TS 32 | | | | | | | | | - | | |
| Mounting rail | TS 35 | ; | | | | | | | | 98220020 | 00 | |
| Earthing rail (| secur | ed or | n cent | ral bo | osses | C/D) | | | | 98100010 | 00 | |
| External mou | nting | brac | kets | | | | | | | 98020020 | 00 | |
| External artic | ulated | hing | ges** | | | | | | | 98020250 | 00 | |
| Internal articu | ılated | hing | jes, fle | exible | 2, | | | | | | | |
| for enclosure | with o | quick | -relea | ase fa | stene | er | | | | 98010760 | 00 | |
| Silicone seal f | or ext | ende | ed ten | npera | ture | range | (by t | he metr | e) | on reques | t | |
| Mounting bu | shes v | vith 4 | 1 scre | ws M | 3 x 8 | | | | | 98000250 | 00 | |
| Maximum po | ssibl | e nu | mber | of th | read | ls | | | | | | |
| ISO M | 12 | 16 | 20 | 25 | 32 | 40 | 50 | 63 | | | | |
| Side A/B | 15 | | | | | | | | | | | |
| Side C/D 5 2 1 1 1 0 0 0 | | | | | | | | | | | | |
| ** Enclosure p | orepai | | | | | | | | | | | |

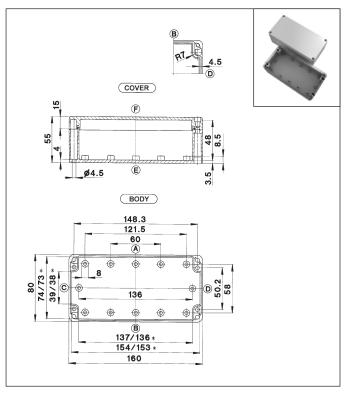


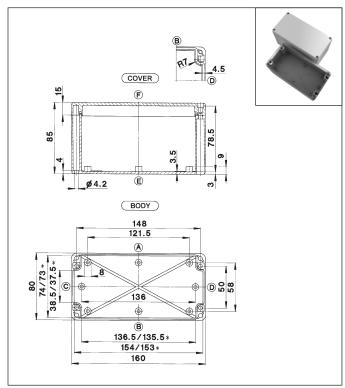
160 x 80 x 55 mm

CT-621 Polycarbonate enclosures CT-622 ABS enclosures

160 x 80 x 85 mm

CT-641 Polycarbonate enclosures CT-642 ABS enclosures





^{*} Smaller dimension at mounting plate support

| Туре | | CT-622 ABS | | |
|---|--------------|------------|--|--|
| Weight (g) | 225 (PC) | (, | | |
| External dimension (mm) | 160 x 80 x 5 | | | |
| Ordering data Enclosure (painted) with seal (PUR) | Part numb | er | | |
| PC, with quick-release fastener | 262000000 | 00 | | |
| PC, with screw fastener | 2620001000 | | | |
| PC, with transparent cover (PC) and quick-release fastener | 2621000000 | | | |
| ABS, with quick-release fastener | 362000000 | 00 | | |
| ABS, with screw fastener | 362000100 | 00 | | |
| ABS, with transparent cover (PC) and quick-release fastener | 362100000 | 00 | | |
| | | | | |
| | | | | |
| Accessories (individual part or installation kit) | | | | |
| Mounting plate | 951201300 | 00 | | |
| Mounting rail TS 15 | 9820013000 | | | |
| Mounting rail TS 32 | - | | | |
| Mounting rail TS 35 | 982202800 | 00 | | |
| Earthing rail (secured on central bosses C/D) | 981000500 | 00 | | |
| External mounting brackets | 980200200 | 00 | | |
| External articulated hinges** | 980202500 | 00 | | |
| Internal articulated hinges, flexible, | | | | |
| for enclosure with quick-release fastener | 980107600 | 00 | | |
| Silicone seal for extended temperature range (by the metre) | on request | | | |
| Mounting bushes with 4 screws M3 x 8 | 980004000 | 00 | | |
| Maximum possible number of threads | | | | |
| ISO M 12 16 20 25 32 40 50 63 | | | | |
| Side A/B 11 5 4 3 0 0 0 0 | | | | |
| Side C/D 2 1 1 0 0 0 0 0 | | | | |
| | | | | |

^{*} Smaller dimension at mounting plate support

| Туре | CT-641 PC CT-642 ABS | | |
|---|----------------------|--|--|
| Weight (g) | 240 (PC) 225 (ABS) | | |
| External dimension (mm) | 160 x 80 x 85 | | |
| Ordering data Enclosure (painted) with seal (PUR) | Part number | | |
| PC, with quick-release fastener | 2640000000 | | |
| PC, with screw fastener | 2640001000 | | |
| PC, with transparent cover (PC) and quick-release fastener | 2641000000 | | |
| ABS, with quick-release fastener | 3640000000 | | |
| ABS, with screw fastener | 3640001000 | | |
| ABS , with transparent cover (PC) and quick-release fastener | 3641000000 | | |
| | | | |
| | | | |
| Accessories (individual part or installation kit) | | | |
| Mounting plate | 9512013000 | | |
| Mounting rail TS 15 | 9820013000 | | |
| Mounting rail TS 32 | - | | |
| Mounting rail TS 35 | 9822028000 | | |
| Earthing rail (secured on central bosses C/D) | 9810005000 | | |
| External mounting brackets | 9802002000 | | |
| External articulated hinges** | 9802025000 | | |
| Internal articulated hinges, flexible, | | | |
| for enclosure with quick-release fastener | 9801076000 | | |
| Silicone seal for extended temperature range (by the metre) | auf Anfrage | | |
| Mounting bushes with 4 screws M3 x 8 | 9800025000 | | |
| Maximum possible number of threads | | | |
| ISO M 12 16 20 25 32 40 50 63 | | | |
| Side A/B 22 10 8 5 3 2 2 0 | | | |
| Side C/D 5 2 1 1 1 0 0 0 | | | |
| ** Enclosure preparation required | | | |

Polycarbonate and ABS Enclosures – Series CT

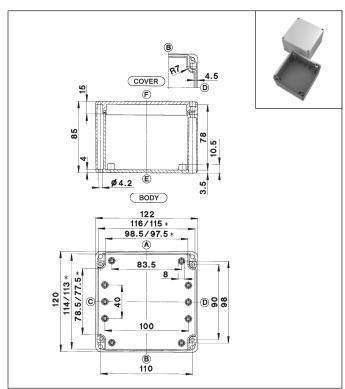
122 x 120 x 55 mm

CT-661 Polycarbonate enclosures CT-662 ABS enclosures

BODY 122 116/115* 98.5/97.5* A 83.5 BODY 120 110 BODY 121 100 B 110

122 x 120 x 85 mm

CT-681 Polycarbonate enclosures CT-682 ABS enclosures



^{*} Smaller dimension at mounting plate support

| Туре | | | | | | | | | | CT-661 PC | CT-662 ABS | | |
|--|----------------|--------|--------|------------|--------|--------|--------|----------|----------|-------------|------------|--|--|
| Weight (g) | | | | | | | | | | 240 (PC) | 218 (ABS) | | |
| External di | mensic | n (m | m) | | | | | | | 122 x 120 x | 55 | | |
| Ordering of | data Er | ıclosı | ıre (p | ainte | d) wit | h seal | (PUF | R) | | Part numb | er | | |
| PC, with qu | uick-rel | ease | faster | ner | | | | | | 26600000 | 00 | | |
| PC, with sc | rew fas | tene | r | | | | | | | 2660001000 | | | |
| PC, with transparent cover (PC) and quick-release fastener | | | | | | | | | | | 00 | | |
| ABS, with quick-release fastener | | | | | | | | | | 36600000 | 00 | | |
| ABS, with s | screw f | asten | er | | | | | | | 36600010 | 00 | | |
| ABS, with t | transpa | rent | cover | (PC) | and q | uick-ı | releas | e faste | ener | 36610000 | 00 | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| Accessorie | s (indi | vidua | l part | or in | stalla | tion k | it) | | | | | | |
| Mounting plate | | | | | | | | 95120140 | 00 | | | | |
| Mounting rail TS 15 | | | | | | | | | 98200080 | 00 | | | |
| Mounting rail TS 32 | | | | | | | | | - | | | | |
| Mounting rail TS 35 | | | | | | | | | 98220020 | 00 | | | |
| Earthing rail (secured on central bosses C/D) | | | | | | | | | | 98100030 | 00 | | |
| External m | ountin | g bra | ckets | | | | | | | 98020020 | 00 | | |
| External ar | ticulate | ed hir | nges* | K - | | | | | | 98020250 | 00 | | |
| Internal art | iculate | d hin | ges, f | lexibl | e, | | | | | | | | |
| for enclosu | ire with | quic | k-rele | ease f | asten | er | | | | 98010760 | 00 | | |
| Silicone sea | al for ex | ktend | led te | mper | ature | rang | e (by | the m | etre) | on reques | t | | |
| Mounting I | bushes | with | 4 scr | ews N | 13 x 8 | | | | | 98000250 | 00 | | |
| Maximum | possik | ole ni | umbe | r of t | hrea | ds | | | | | | | |
| ISO M | 12 | 16 | 20 | 25 | 32 | 40 | 50 | 63 | | | | | |
| Side A/B | 9 | 4 | 3 | 2 | 0 | 0 | 0 | 0 | | | | | |
| Side C/D | 4 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | | | | | |
| ** Enclosur | e prep | aratio | n rec | uirec | | | | | | | | | |

^{*} Smaller dimension at mounting plate support

| Туре | CT-681 PC CT-682 ABS |
|--|----------------------|
| Weight (g) | 295 (PC) 269 (ABS) |
| External dimension (mm) | 122 x 120 x 85 |
| Ordering data Enclosure (painted) with seal (PUR) | Part number |
| PC, with quick-release fastener | 2680000000 |
| PC, with screw fastener | 2680001000 |
| PC, with transparent cover (PC) and quick-release fastener | r 2681000000 |
| ABS, with quick-release fastener | 3680000000 |
| ABS, with screw fastener | 3680001000 |
| ABS, with transparent cover (PC) and quick-release fasten | er 3681000000 |
| | |
| | |
| Accessories (individual part or installation kit) | |
| Mounting plate | 9512014000 |
| Mounting rail TS 15 | - |
| Mounting rail TS 32 | 9821001000 |
| Mounting rail TS 35 | 9822002000 |
| Earthing rail (secured on central bosses C/D) | 9810003000 |
| External mounting brackets | 9802002000 |
| External articulated hinges** | 9802025000 |
| Internal articulated hinges, flexible, | |
| for enclosure with quick-release fastener | 9801076000 |
| Silicone seal for extended temperature range (by the met | re) on request |
| Mounting bushes with 4 screws M3 x 8 | 9800025000 |
| Maximum possible number of threads | |
| ISO M 12 16 20 25 32 40 50 63 | |
| Side A/B 15 6 6 3 20 1 1 0 | |
| Side C/D 10 3 3 2 1 0 0 0 | |
| ** Enclosure preparation required | |

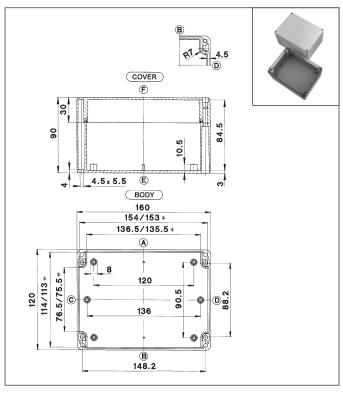


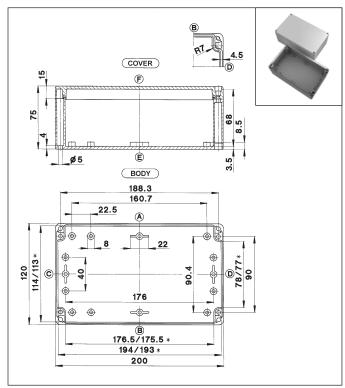
160 x 120 x 90 mm

CT-721 Polycarbonate enclosures CT-722 ABS enclosures

200 x 120 x 75 mm

CT-761 Polycarbonate enclosures CT-762 ABS enclosures





^{*} Smaller dimension at mounting plate support

| Туре | CT-721 PC CT-722 ABS | | |
|---|----------------------|--|--|
| Weight (g) | 360 (PC) 310 (ABS) | | |
| External dimension (mm) | 160 x 120 x 90 | | |
| Ordering data Enclosure (painted) with seal (PUR) | Part number | | |
| PC, with quick-release fastener | 2720000000 | | |
| PC, with screw fastener | 2720001000 | | |
| PC, with transparent cover (PC) and quick-release fastener | 2721000000 | | |
| ABS, with quick-release fastener | 3720000000 | | |
| ABS, with screw fastener | 3720001000 | | |
| ABS, with transparent cover (PC) and quick-release fastener | 3721000000 | | |
| | | | |
| | | | |
| Accessories (individual part or installation kit) | | | |
| Mounting plate | 9512036000 | | |
| Mounting rail TS 15 | - | | |
| Mounting rail TS 32 | 9821025000 | | |
| Mounting rail TS 35 | 9822028000 | | |
| Earthing rail (secured on central bosses C/D) | 9810040000 | | |
| External mounting brackets | 9802002000 | | |
| External articulated hinges** | 9802025000 | | |
| Internal articulated hinges, flexible, | | | |
| for enclosure with quick-release fastener | 9801079000 | | |
| Silicone seal for extended temperature range (by the metre) | on request | | |
| Mounting bushes with 4 screws M3 x 8 | 9800025000 | | |
| Maximum possible number of threads | | | |
| ISO M 12 16 20 25 32 40 50 63 | | | |
| Side A/B 18 10 7 3 3 0 0 0 | | | |
| Side C/D 9 5 2 2 1 0 0 0 | | | |
| ** Enclosure preparation required | | | |

^{*} Smaller dimension at mounting plate support

| Type CT-761 PC CT-762 AI Weight (g) 400 (PC) 373 (ABS) External dimension (mm) 200 x 120 x 75 Ordering data Enclosure (painted) with seal (PUR) Part number PC, with quick-release fastener 276000000 PC, with screw fastener 2760001000 PC, with transparent cover (PC) and quick-release fastener 2761000000 ABS, with quick-release fastener 3760000000 ABS, with screw fastener 3760001000 ABS, with screw fastener 3760001000 ABS, with transparent cover (PC) and quick-release fastener 37610000000 ACCESSORIES (individual part or installation kit) Mounting plate 9512015000 |
|---|
| External dimension (mm) 200 x 120 x 75 Ordering data Enclosure (painted) with seal (PUR) Part number PC, with quick-release fastener 276000000 PC, with screw fastener 2760001000 PC, with transparent cover (PC) and quick-release fastener 2761000000 ABS, with quick-release fastener 3760000000 ABS, with screw fastener 3760001000 ABS, with transparent cover (PC) and quick-release fastener 3761000000 ACCESSORIES (individual part or installation kit) |
| Ordering data Enclosure (painted) with seal (PUR) PC, with quick-release fastener PC, with screw fastener PC, with screw fastener PC, with screw fastener PC, with transparent cover (PC) and quick-release fastener PC, with screw |
| PC, with quick-release fastener 276000000 PC, with screw fastener 2760001000 PC, with transparent cover (PC) and quick-release fastener 2761000000 ABS, with quick-release fastener 3760000000 ABS, with screw fastener 3760001000 ABS, with transparent cover (PC) and quick-release fastener 3761000000 ACCESSORIES (individual part or installation kit) |
| PC, with screw fastener PC, with transparent cover (PC) and quick-release fastener |
| PC, with transparent cover (PC) and quick-release fastener ABS, with quick-release fastener ABS, with screw fastener ABS, with transparent cover (PC) and quick-release fastener Accessories (individual part or installation kit) |
| ABS, with quick-release fastener 376000000 ABS, with screw fastener 3760001000 ABS, with transparent cover (PC) and quick-release fastener 3761000000 Accessories (individual part or installation kit) |
| ABS, with screw fastener ABS, with transparent cover (PC) and quick-release fastener 3761000000 Accessories (individual part or installation kit) |
| ABS, with transparent cover (PC) and quick-release fastener 3761000000 Accessories (individual part or installation kit) |
| Accessories (individual part or installation kit) |
| • |
| • |
| • |
| Mounting plate 9512015000 |
| |
| Mounting rail TS 15 – |
| Mounting rail TS 32 9821004000 |
| Mounting rail TS 35 9822006000 |
| Earthing rail (secured on central bosses C/D) 9810006000 |
| External mounting brackets 9802002000 |
| External articulated hinges** 9802025000 |
| Internal articulated hinges, flexible, |
| for enclosure with quick-release fastener 9801076000 |
| Silicone seal for extended temperature range (by the metre) on request |
| Mounting bushes with 4 screws M3 x 8 9800040000 |
| Maximum possible number of threads |
| ISO M 12 16 20 25 32 40 50 63 |
| Side A/B 26 12 8 5 3 0 0 0 |
| Side C/D 10 5 2 2 1 0 0 0 |
| ** Enclosure preparation required |

Polycarbonate and ABS Enclosures – Series CT

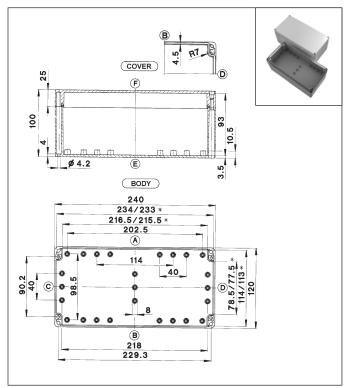
200 x 120 x 90 mm

CT-781 Polycarbonate enclosures CT-782 ABS enclosures

COVER (E) (B) (COVER (COVE

240 x 120 x 100 mm

CT-801 Polycarbonate enclosures CT-802ABS enclosures



^{*} Smaller dimension at mounting plate support

| Туре | CT-781 PC | CT-782 ABS |
|--|-------------|------------|
| Weight (g) | 420 (PC) | 365 (ABS) |
| External dimension (mm) | 200 x 120 x | 90 |
| Ordering data Enclosure (painted) with seal (PUR) | Part numb | er |
| PC, with quick-release fastener | 27800000 | 00 |
| PC, with screw fastener | 27800010 | 00 |
| PC , with transparent cover (PC) and quick-release fastener | 27810000 | 00 |
| ABS, with quick-release fastener | 37800000 | 00 |
| ABS, with screw fastener | 37800010 | 00 |
| ABS, with transparent cover (PC) and quick-release fastener | 37810000 | 00 |
| | | |
| | | |
| Accessories (individual part or installation kit) | | |
| Mounting plate | 95120150 | 00 |
| Mounting rail TS 15 | - | |
| Mounting rail TS 32 | 98210040 | 00 |
| Mounting rail TS 35 | 98220060 | 00 |
| Earthing rail (secured on central bosses C/D) | 98100060 | 00 |
| External mounting brackets | 98020020 | 00 |
| External articulated hinges** | 98020250 | 00 |
| Internal articulated hinges, flexible, | | |
| for enclosure with quick-release fastener | 98010790 | 00 |
| Silicone seal for extended temperature range (by the metre | on reques | t |
| Mounting bushes with 4 screws M3 x 8 | 98000400 | 00 |
| Maximum possible number of threads | | |
| ISO M 12 16 20 25 32 40 50 63 | | |
| Side A/B 26 12 8 5 3 0 0 0 | | |
| Side C/D 10 5 2 2 1 0 0 0 | | |
| ** Enclosure preparation required | | |

^{*} Smaller dimension at mounting plate support

| Fype CT-801 PC CT-802 Meight (g) 540 (PC) 478 (AB External dimension (mm) 240 x 120 x 100 240 x 120 x 120 240 x 120 x 120< | |
|--|----|
| External dimension (mm) 240 x 120 x 100 Ordering data Enclosure (painted) with seal (PUR) Part number 2800000000 2800000000 | 5) |
| Ordering data Enclosure (painted) with seal (PUR) Part number 2800000000 2800000000 | |
| PC, with quick-release fastener 2800000000 | |
| • | |
| PC, with screw fastener 2800001000 | |
| | |
| PC, with transparent cover (PC) and quick-release fastener 2801000000 | |
| ABS, with quick-release fastener 3800000000 | |
| ABS, with screw fastener 3800001000 | |
| ABS, with transparent cover (PC) and quick-release fastener 3801000000 | |
| | |
| | |
| Accessories (individual part or installation kit) | |
| Mounting plate 9512016000 | |
| Mounting rail TS 15 – | |
| Mounting rail TS 32 9821006000 | |
| Mounting rail TS 35 9822008000 | |
| Earthing rail (secured on central bosses C/D) 9810009000 | |
| External mounting brackets 9802002000 | |
| External articulated hinges** 9802025000 | |
| nternal articulated hinges, flexible, | |
| or enclosure with quick-release fastener 9801078000 | |
| Silicone seal for extended temperature range (by the metre) on request | |
| Mounting bushes with 4 screws M3 x 8 9800025000 | |
| Maximum possible number of threads | |
| SO M 12 16 20 25 32 40 50 63 | |
| Side A/B 34 17 12 6 5 3 3 2 | |
| Side C/D 10 6 3 2 1 1 0 0 | |
| ** Enclosure preparation required | |

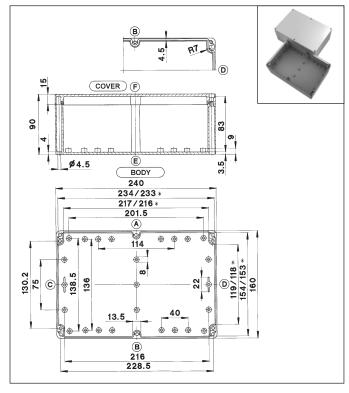


200 x 150 x 75 mm

CT-821 Polycarbonate enclosures CT-822 ABS enclosures

240 x 160 x 90 mm

CT-841 Polycarbonate enclosures CT-842 ABS enclosures CAD files available at www.bernstein.eu



176.5/175.5 *

| Туре | CT-821 PC | CT-822 ABS |
|---|-------------|------------|
| Weight (g) | 475 (PC) | 425 (ABS) |
| External dimension (mm) | 200 x 150 x | 75 |
| Ordering data Enclosure (painted) with seal (PUR) | Part numb | er |
| PC, with quick-release fastener | 282000000 | 00 |
| PC, with screw fastener | 282000100 | 00 |
| PC, with transparent cover (PC) and quick-release fastener | 282100000 | 00 |
| ABS, with quick-release fastener | 382000000 | 00 |
| ABS, with screw fastener | 382000100 | 00 |
| ABS, with transparent cover (PC) and quick-release fastener | 382100000 | 00 |
| | | |
| | | |
| Accessories (individual part or installation kit) | | |
| Mounting plate | 951201700 | 00 |
| Mounting rail TS 15 | - | |
| Mounting rail TS 32 | 982101700 | 00 |
| Mounting rail TS 35 | 982202000 | 00 |
| Earthing rail (secured on central bosses C/D) | 981000600 | 00 |
| External mounting brackets | 980200200 | 00 |
| External articulated hinges** | 980202500 | 00 |
| Internal articulated hinges, flexible, | | |
| for enclosure with quick-release fastener | 980107600 | 00 |
| Silicone seal for extended temperature range (by the metre) | on request | |
| Mounting bushes with 4 screws M3 x 8 | 980002500 | 00 |
| Maximum possible number of threads | | |
| ISO M 12 16 20 25 32 40 50 63 | | |
| Side A/B 22 12 9 5 3 0 0 0 | | |
| | | |
| Side C/D 12 6 3 2 2 0 0 0 | | |

^{*} Smaller dimension at mounting plate support

| Туре | CT-841 PC CT-842 ABS | | |
|---|----------------------|--|--|
| Weight (g) | 650 (PC) 528 (ABS) | | |
| External dimension (mm) | 240 x 160 x 90 | | |
| Ordering data Enclosure (painted) with seal (PUR) | Part number | | |
| PC, with quick-release fastener | 2840000000 | | |
| PC, with screw fastener | 2840001000 | | |
| PC, with transparent cover (PC) and quick-release fastener | 2841000000 | | |
| ABS, with quick-release fastener | 3840000000 | | |
| ABS, with screw fastener | 3840001000 | | |
| ABS , with transparent cover (PC) and quick-release fastener | 3841000000 | | |
| | | | |
| | | | |
| Accessories (individual part or installation kit) | | | |
| Mounting plate | 9512018000 | | |
| Mounting rail TS 15 | - | | |
| Mounting rail TS 32 | 9821006000 | | |
| Mounting rail TS 35 | 9822008000 | | |
| Earthing rail (secured on central bosses C/D) | 9810009000 | | |
| External mounting brackets | 9802002000 | | |
| External articulated hinges** | 9802025000 | | |
| Internal articulated hinges, flexible, | | | |
| for enclosure with quick-release fastener | 9801076000 | | |
| Silicone seal for extended temperature range (by the metre) | on request | | |
| Mounting bushes with 4 screws M3 x 8 | 9800040000 | | |
| Maximum possible number of threads | | | |
| ISO M 12 16 20 25 32 40 50 63 | | | |
| Side A/B 36 16 12 8 4 2 2 2 | | | |
| Side C/D 17 8 5 3 2 2 1 0 | | | |
| ** Enclosure preparation required | | | |

^{*} Smaller dimension at mounting plate support

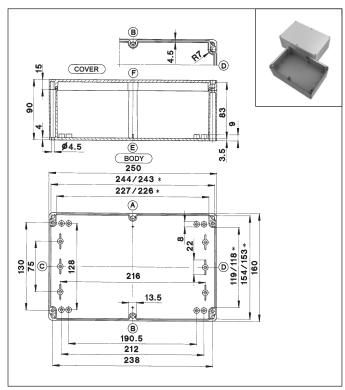
Polycarbonate and ABS Enclosures – Series CT

240 x 160 x 120 mm

CT-861 Polycarbonate enclosures CT-862 ABS enclosures

250 x 160 x 90 mm

CT-901 Polycarbonate enclosures CT-902 ABS enclosures



^{*} Smaller dimension at mounting plate support

| Туре | | | | | | | | | C | T-861 PC | CT-862 ABS | | |
|--|----------------|--------|---------|--------|--------|--------|--------|----------|--------------|------------|------------|--|--|
| Weight (g) | | | | | | | | | 7 | 85 (PC) | 636 (ABS) | | |
| External di | mensio | on (m | m) | | | | | | 2 | 40 x 160 x | 120 | | |
| Ordering o | data Er | nclosi | ıre (p | ainte | d) wit | h sea | l (PUF | () | P | art numb | er | | |
| PC, with qu | uick-rel | lease | faster | ner | | | | | 2 | 8600000 | 00 | | |
| PC, with screw fastener | | | | | | | | | | | 2860001000 | | |
| PC, with transparent cover (PC) and quick-release fastener | | | | | | | | | | | 2861000000 | | |
| ABS, with quick-release fastener | | | | | | | | | | 3860000000 | | | |
| ABS, with s | screw f | asten | er | | | | | | 3 | 8600010 | 00 | | |
| ABS, with t | ranspa | arent | cover | (PC) | and q | uick- | releas | e faster | ner 3 | 8610000 | 00 | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| Accessorie | s (indi | vidua | ıl part | or in | stalla | tion k | it) | | | | | | |
| Mounting | plate | | | | | | | | 9 | 5120180 | 00 | | |
| Mounting I | rail TS 1 | 15 | | | | | | | - | | | | |
| Mounting rail TS 32 | | | | | | | | | 9 | 8210060 | 00 | | |
| Mounting rail TS 35 | | | | | | | | | 9 | 8220080 | 00 | | |
| Earthing rail (secured on central bosses C/D) | | | | | | | | | | 8100090 | 00 | | |
| External mounting brackets | | | | | | | | | 9 | 8020020 | 00 | | |
| External ar | ticulate | ed hir | nges* | * | | | | | 9 | 8020250 | 00 | | |
| Internal art | iculate | ed hin | iges, f | lexib | le, | | | | | | | | |
| for enclosu | re with | n quic | k-rele | ase f | asten | er | | | 9 | 8010800 | 00 | | |
| Silicone sea | al for e | xtend | led te | mpei | ature | rang | e (by | the met | re) o | n reques | t | | |
| Mounting I | bushes | with | 4 scr | ews N | 13 x 8 | | | | 9 | 8000400 | 00 | | |
| Maximum | possil | ble n | umbe | r of t | hrea | ds | | | | | | | |
| ISO M | 12 | 16 | 20 | 25 | 32 | 40 | 50 | 63 | | | | | |
| Side A/B | 36 | 16 | 12 | 8 | 4 | 2 | 2 | 2 | | | | | |
| Side C/D | 17 | 8 | 5 | 3 | 2 | 2 | 1 | 0 | | | | | |
| ** Enclosur | e prep | aratio | on rec | uirec | 1 | | | | | | | | |

^{*} Smaller dimension at mounting plate support

| Type CT-901 PC CT-902 A Weight (g) 680 (PC) 550 (ABS External dimension (mm) 250 x 160 x 90 Ordering data Enclosure (painted) with seal (PUR) Part number PC, with quick-release fastener 290000000 PC, with screw fastener 2900001000 PC, with transparent cover (PC) and quick-release fastener 2901000000 | |
|---|----|
| External dimension (mm) 250 x 160 x 90 Ordering data Enclosure (painted) with seal (PUR) Part number PC, with quick-release fastener 290000000 PC, with screw fastener 2900001000 | 5) |
| Ordering data Enclosure (painted) with seal (PUR) PC, with quick-release fastener PC, with screw fastener 2900001000 | |
| PC, with quick-release fastener 290000000 PC, with screw fastener 2900001000 | |
| PC, with screw fastener 2900001000 | |
| • | |
| With transparent cover (PC) and quick-release fastener 290100000 | |
| 290100000 | |
| ABS, with quick-release fastener 390000000 | |
| ABS, with screw fastener 3900001000 | |
| ABS, with transparent cover (PC) and quick-release fastener 3901000000 | |
| | |
| | |
| Accessories (individual part or installation kit) | |
| Mounting plate 9512187000 | |
| Mounting rail TS 15 – | |
| Mounting rail TS 32 9821006000 | |
| Mounting rail TS 35 9822008000 | |
| Earthing rail (secured on central bosses C/D) 9810009000 | |
| External mounting brackets 9802002000 | |
| External articulated hinges** 9802025000 | |
| Internal articulated hinges, flexible, | |
| for enclosure with quick-release fastener 9801076000 | |
| Silicone seal for extended temperature range (by the metre) on request | |
| Mounting bushes with 4 screws M3 x 8 9800040000 | |
| Maximum possible number of threads | |
| ISO M 12 16 20 25 32 40 50 63 | |
| Side A/B 38 16 12 8 4 2 2 2 | |
| Side C/D 17 8 5 3 2 2 1 0 | |
| ** Enclosure preparation required | |

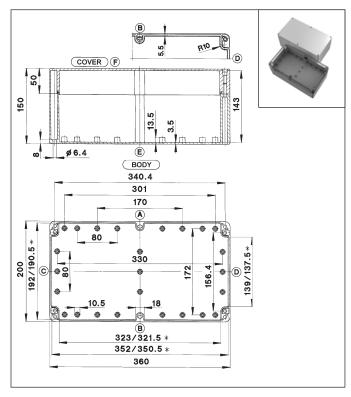


250 x 160 x 120 mm

CT-911 Polycarbonate enclosures CT-912 ABS enclosures

360 x 200 x 150 mm

CT-881 Polycarbonate enclosures CT-882 ABS enclosures



^{*} Smaller dimension at mounting plate support

| Туре | CT-911 PC | CT-912 ABS | | | | | | | | | | | |
|---|-------------|------------|--|--|--|--|--|--|--|--|--|--|--|
| Weight (g) | 830 (PC) | 660 (ABS) | | | | | | | | | | | |
| External dimension (mm) | 250 x 160 x | 120 | | | | | | | | | | | |
| Ordering data Enclosure (painted) with seal (PUR) | Part numb | er | | | | | | | | | | | |
| PC, with quick-release fastener | 29100000 | 00 | | | | | | | | | | | |
| PC, with screw fastener | 29100010 | 00 | | | | | | | | | | | |
| PC, with transparent cover (PC) and quick-release fastener | 29110000 | 00 | | | | | | | | | | | |
| ABS, with quick-release fastener | 39100000 | 00 | | | | | | | | | | | |
| ABS, with screw fastener | 39100010 | 00 | | | | | | | | | | | |
| ABS, with transparent cover (PC) and quick-release fastener | 39110000 | 00 | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| Accessories (individual part or installation kit) | | | | | | | | | | | | | |
| Mounting plate | 95121870 | 00 | | | | | | | | | | | |
| Mounting rail TS 15 | - | | | | | | | | | | | | |
| Mounting rail TS 32 | 9821006000 | | | | | | | | | | | | |
| Mounting rail TS 35 | 9822008000 | | | | | | | | | | | | |
| Earthing rail (secured on central bosses C/D) | 98100090 | 00 | | | | | | | | | | | |
| External mounting brackets | 98020020 | 00 | | | | | | | | | | | |
| External articulated hinges** | 98020250 | 00 | | | | | | | | | | | |
| Internal articulated hinges, flexible, | | | | | | | | | | | | | |
| for enclosure with quick-release fastener | 98010800 | 00 | | | | | | | | | | | |
| Silicone seal for extended temperature range (by the metre) | on request | t | | | | | | | | | | | |
| Mounting bushes with 4 screws M3 x 8 | 98000400 | 00 | | | | | | | | | | | |
| Maximum possible number of threads | | | | | | | | | | | | | |
| ISO M 12 16 20 25 32 40 50 63 | | | | | | | | | | | | | |
| Side A/B 38 16 12 8 4 2 2 2 | | | | | | | | | | | | | |
| Side C/D 17 8 5 3 2 2 1 0 | | | | | | | | | | | | | |
| ** Enclosure preparation required | | | | | | | | | | | | | |

^{*} Smaller dimension at mounting plate support

| Town a | | | | | | | | | | | | |
|--|----------------------|--|--|--|--|--|--|--|--|--|--|--|
| Туре | CT-881 PC CT-882 ABS | | | | | | | | | | | |
| Weight (g) | 1550 (PC) 1375 (ABS) | | | | | | | | | | | |
| External dimension (mm) | 360 x 200 x 150 | | | | | | | | | | | |
| Ordering data Enclosure (painted) with seal (PUR) | Part number | | | | | | | | | | | |
| PC, with quick-release fastener | 2880000000 | | | | | | | | | | | |
| PC, with screw fastener | 2880001000 | | | | | | | | | | | |
| PC , with transparent cover (PC) and quick-release fastener | 2881000000 | | | | | | | | | | | |
| ABS, with quick-release fastener | 3880000000 | | | | | | | | | | | |
| ABS, with screw fastener | 3880001000 | | | | | | | | | | | |
| ABS, with transparent cover (PC) and quick-release fastener | 3881000000 | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| Accessories (individual part or installation kit) | | | | | | | | | | | | |
| Mounting plate | 9512020000 | | | | | | | | | | | |
| Mounting rail TS 15 | - | | | | | | | | | | | |
| Mounting rail TS 32 | 9821013000 | | | | | | | | | | | |
| Mounting rail TS 35 | 9822016000 | | | | | | | | | | | |
| Earthing rail (secured on central bosses C/D) | 9810034000 | | | | | | | | | | | |
| External mounting brackets | - | | | | | | | | | | | |
| External articulated hinges** | 9802026000 | | | | | | | | | | | |
| Internal articulated hinges, flexible, | | | | | | | | | | | | |
| for enclosure with quick-release fastener | - | | | | | | | | | | | |
| Silicone seal for extended temperature range (by the metre) | on request | | | | | | | | | | | |
| Mounting bushes with 4 screws M3 x 8 | 9800026000 (M4 x 8) | | | | | | | | | | | |
| Maximum possible number of threads | | | | | | | | | | | | |
| ISO M 12 16 20 25 32 40 50 63 | | | | | | | | | | | | |
| Side A/B 70 32 24 16 10 6 4 4 | | | | | | | | | | | | |
| Side C/D 26 11 8 5 3 2 2 1 | | | | | | | | | | | | |
| ** Enclosure preparation required | | | | | | | | | | | | |

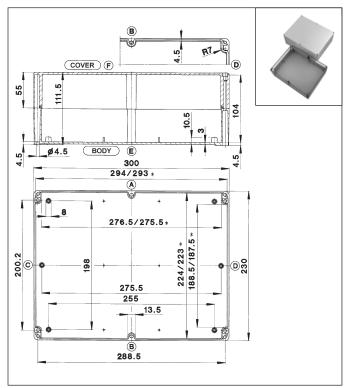
Polycarbonate and ABS Enclosures – Series CT

300 x 230 x 86 mm

CT-871 Polycarbonate enclosures CT-872 ABS enclosures

300 x 230 x 110 mm

CT-891 Polycarbonate enclosures CT-892 ABS enclosures



^{*} Smaller dimension at mounting plate support

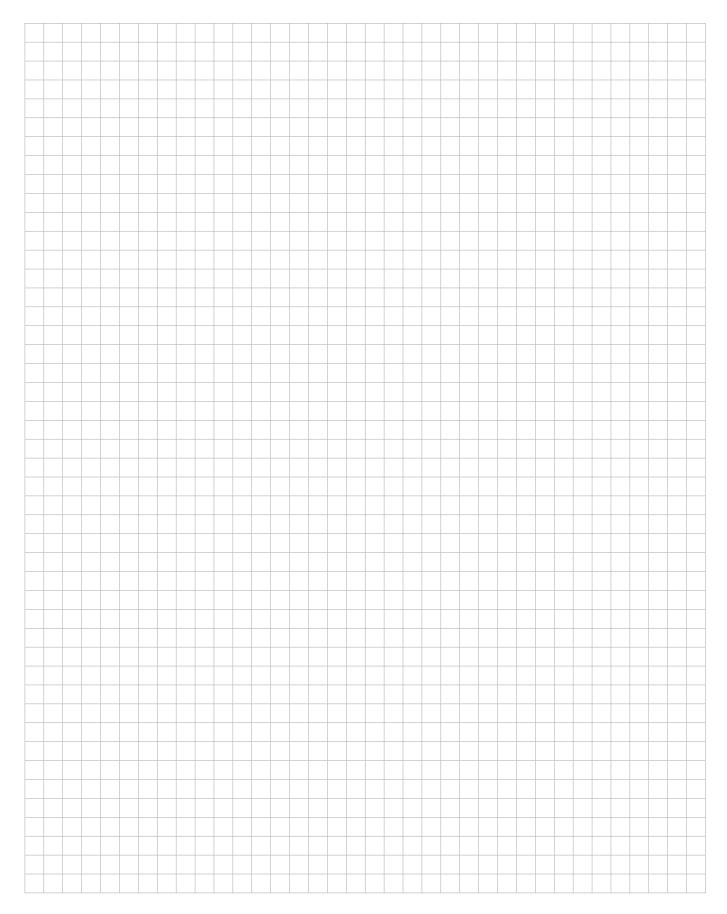
| Туре | | | | | | | | | | CT-871 PC | CT-872 ABS | | |
|---|-----------|--------|----------|---------|--------|--------|--------|--------|------|-------------|------------|--|--|
| Weight (g) | | | | | | | | | | 915 (PC) | 850 (ABS) | | |
| External di | mensio | on (m | m) | | | | | | | 300 x 230 x | ¢ 86 | | |
| Ordering o | data Er | nclosi | ıre (p | ainte | d) wit | h sea | l (PUF | R) | | Part number | | | |
| PC, with qu | ıick-re | | 28700000 | 00 | | | | | | | | | |
| PC, with sc | rew fa | | 28700010 | 00 | | | | | | | | | |
| PC, with tra | anspar | er | 28710000 | 00 | | | | | | | | | |
| ABS, with o | quick-r | | 38700000 | 00 | | | | | | | | | |
| ABS, with s | crew f | | 38700010 | 00 | | | | | | | | | |
| ABS, with t | ranspa | ner | 38710000 | 00 | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| Accessories (individual part or installation kit) | | | | | | | | | | | | | |
| Mounting p | olate | | | | | | | | | 95120190 | 00 | | |
| Mounting r | rail TS | 15 | | | | | | | | - | | | |
| Mounting r | rail TS | 32 | | | | | | | | 9821010000 | | | |
| Mounting r | rail TS : | 35 | | | | | | | | 9822013000 | | | |
| Earthing ra | il (secu | ured c | n cer | itral b | osses | s C/D) | | | | 98100120 | 00 | | |
| External me | ountin | ıg bra | ckets | | | | | | | 98020020 | 00 | | |
| External art | ticulat | ed hir | nges* | * | | | | | | 98020250 | 00 | | |
| Internal art | iculate | ed hin | iges, f | lexibl | e, | | | | | | | | |
| for enclosu | re with | n quic | k-rele | ase f | asten | er | | | | 98010790 | 00 | | |
| Silicone sea | al for e | xtend | led te | mper | ature | rang | e (by | the me | tre) | _ | | | |
| Mounting I | oushes | with | 4 scr | ews N | 13 x 8 | | | | | 98000250 | 00 | | |
| Maximum | possi | ble n | umbe | r of t | hrea | ds | | | | | | | |
| ISO M | 12 | 16 | 20 | 25 | 32 | 40 | 50 | 63 | | | | | |
| Side A/B | 34 | 14 | 10 | 6 | 4 | 0 | 0 | 0 | | | | | |
| Side C/D | 21 | 13 | 5 | 4 | 2 | 0 | 0 | 0 | | | | | |
| ** Enclosure preparation required | | | | | | | | | | | | | |

^{*} Smaller dimension at mounting plate support

| Type | | | | | | | | CT-891 PC CT-892 ABS | | | | | |
|---|---------------------|---------|---------|--------|--------|-------|---------|----------------------|--|--|--|--|--|
| Weight (g) | | | | | | | | 1155 (PC) 1000 (ABS) | | | | | |
| External dimensi | on (mr | n) | | | | | | 300 x 230 x 110 | | | | | |
| Ordering data E | nclosu | re (pa | inted |) with | n seal | (PUR |) | Part number | | | | | |
| PC, with quick-re | lease f | asten | er | | | | | 2890000000 | | | | | |
| PC, with screw fa | 2890001000 | | | | | | | | | | | | |
| PC, with transpar | 2891000000 | | | | | | | | | | | | |
| ABS, with quick- | 3890000000 | | | | | | | | | | | | |
| ABS, with screw | 3890001000 | | | | | | | | | | | | |
| ABS, with transp | er 389100000 | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| Accessories (individual part or installation kit) | | | | | | | | | | | | | |
| Mounting plate | 9512019000 | | | | | | | | | | | | |
| Mounting rail TS | 15 | | | | | | | - | | | | | |
| Mounting rail TS | 32 | | | | | | | 9821010000 | | | | | |
| Mounting rail TS | 35 | | | | | | | 9822013000 | | | | | |
| Earthing rail (sec | ured o | n cen | tral bo | osses | C/D) | | | 9810012000 | | | | | |
| External mountin | ng brac | kets | | | | | | 9802002000 | | | | | |
| External articulat | ed hin | ges** | | | | | | 9802025000 | | | | | |
| Internal articulat | ed hin | ges, fl | exible | 2, | | | | | | | | | |
| for enclosure wit | h quicl | k-relea | ase fa | stene | er | | | 9801082000 | | | | | |
| Silicone seal for e | extend | ed ter | npera | ture | range | (by t | he metr | e) – | | | | | |
| Mounting bushe | s with | 4 scre | ws M | 3 x 8 | | | | 9800025000 | | | | | |
| Maximum possi | ble nu | mbei | of th | read | s | | | | | | | | |
| ISO M 12 | 16 | 20 | 25 | 32 | 40 | 50 | 63 | | | | | | |
| Side A/B 34 | 14 | 10 | 6 | 4 | 0 | 0 | 0 | | | | | | |
| Side C/D 21 | 13 | 5 | 4 | 2 | 0 | 0 | 0 | | | | | | |
| ** Enclosure preparation required | | | | | | | | | | | | | |



Notes



Polyester Enclosures – Series CP

BERNSTEIN Series CP and CPS polyester enclosures are produced from highgrade glass fibre-reinforced polyester. Thanks to their reduced surface resistance (Ro < 109 Ohm), the black polyester enclosures meet the requirements for Ex applications. Polyester enclosures are therefore particularly suitable for accepting and encapsulating electrical and electronic components as well as control components in harsh environments or potentially explosive atmospheres (see Page 14). All enclosures achieve protection class IP 66 in accordance with DIN EN 60529 (optionally IP 67).

Corresponding to their size, BERNSTEIN polyester enclosures feature M4 or M6 mounting elements in the enclosure body. These mounting bushes are embedded in a flange on the narrow sides of the base and accept mounting plates, mounting rails, pc boards etc.

The captive stainless steel cover screws are retained by a self-latching element integrated in the cover. The threaded bushes for mounting the cover are also made from stainless steel. The protection class (on the standard enclosure) is ensured by a factory-fitted seal. The polyester enclosures are available as standard in grey (RAL 7000, squirrel grey) or black (RAL 9005, jet black) material.

Technical data

Material

Glass fibre-reinforced polyester in grey or black

Seal

Foamed PUR seal Neoprene (CR) round cord (siliconized), EPDM round cord

Cover screws

Stainless steel, captive, cross recessed head

Optionally:

Socket head cap screws, stainless steel, captive Sealed cover screws, stainless steel, slot head

Colour

RAL 7000 (squirrel grey) bzw. RAL 9005 (jet black)

Other colours (coating or dyeing) available on request for large quantities.

Temperature range of CP enclosures

-60°C to +165°C

| | | | | | Polyester enclos | ure (grey) | Polyester enclos | ure (black) |
|------|-------|-------|---|------|------------------|------------|------------------|-------------|
| Dime | ensic | ns/mr | n | | Article number | Туре | Article number | Туре |
| L | х | W | х | Н | | | | |
| 80 | Х | 75 | Х | 55 | 4140000000 | CP-140 | 5140000000 | CPS-140 |
| 80 | Х | 75 | Х | 75 | 4140000050 | CP-145 | 5140000050 | CPS-145 |
| 110 | Х | 75 | Х | 55 | 4150000000 | CP-150 | 5150000000 | CPS-150 |
| 110 | Х | 75 | Х | 75 | 4150000050 | CP-155 | 5150000050 | CPS-155 |
| 160 | Х | 75 | Х | 55 | 4170000000 | CP-170 | 5170000000 | CPS-170 |
| 160 | Х | 75 | Х | 75 | 4170000050 | CP-175 | 5170000050 | CPS-175 |
| 190 | Х | 75 | Х | 55 | 4190000000 | CP-190 | 5190000000 | CPS-190 |
| 190 | Х | 75 | Х | 75 | 4190000050 | CP-195 | 5190000050 | CPS-195 |
| 122 | Х | 120 | Х | 90,5 | 422000000 | CP-220 | 5220000000 | CPS-220 |
| 220 | Х | 120 | Х | 90,5 | 424000000 | CP-240 | 524000000 | CPS-240 |
| 160 | Х | 160 | Х | 91 | 4280000000 | CP-280 | 5280000000 | CPS-280 |
| 260 | Х | 160 | Х | 91 | 430000000 | CP-300 | 530000000 | CPS-300 |
| 360 | Х | 160 | Х | 91 | 4320000000 | CP-320 | 5320000000 | CPS-320 |
| 560 | Х | 160 | Х | 91 | 433000000 | CP-330 | 533000000 | CPS-330 |
| 255 | Х | 250 | Х | 120 | 4370000000 | CP-370 | 5370000000 | CPS-370 |
| 400 | Х | 250 | Х | 120 | 440000000 | CP-400 | 540000000 | CPS-400 |
| 400 | х | 405 | Х | 120 | 4450000000 | CP-450 | 5450000000 | CPS-450 |
| 400 | х | 405 | х | 165 | 4460000000 | CP-460 | 5460000000 | CPS-460 |



Temperature range of seals

Standard:

-40°C to +100°C (PUR seal)

Optionally:

- -30°C to +80°C (Neoprene seal)
- -60°C to +130°C (silicone seal) or
- -35°C to +100°C (EPDM seal)

Protection class

IP 66

IP 67 with PUR seal

Approbations

Germanischer Lloyd c UL us (Label on demand) c CSA us (Label on demand) ATEX



Assembling of components



This is just a selection of possible assembly components that BERNSTEIN offers. Contact us, we can incorporate components from all leading manufacturers to satisfy your individual demand. You find further information about "System solutions" on page 12.



Mounting plates

made from galvanised steel plate or laminated paper (thickness: CP-140 to CP 195 laminated paper 1.5 mm; CP-220 to CP-320 and CP-370 to CP-460 steel plate 1.5 mm; CP-330 steel plate 2.5 mm) for versatile mounting of built-in components.



Mounting rails

conforming to Standards TS 15 or TS 32 and TS 35 made from steel; surface treated for accepting terminal blocks.



Terminal blocks

of all renowned manufacturers are used.



Earthing bars

made from galvanised steel for combining and connecting PE conductors.



External mounting brackets

made from metal for mounting enclosures without opening the covers. The brackets are always fitted across the shorter sides of the enclosure.



External articulated hinges

for hinged mounting of enclosure cover. Opening range of cover approx. 155°. Cast aluminium (painted in RAL 7001 – specific colour according to enclosure specification possible).

Machining is required for mounting on enclosures.



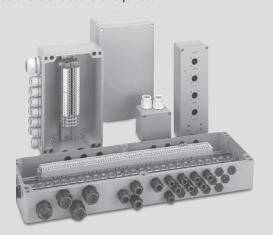
Internal articulated hinges

for hinged mounting of enclosure cover. Opening range of cover approx. 95°. Stainless steel. Machining is required for mounting on enclosures.



Silicon, EPDM or HF seal

with increased temperature resistance (see indications left side) or to protect sensitive electronic equipment against high-frequency radiation (HF seal). If a HF seal is used, an additional coating of the inside of the enclosure is required.





Cable glands

plastic cable glands (polyamide PAGV-2, RAL 7001) or brass cable glands. Sealing element CR/NBR. Temperature range: -20°C to +100°C (see also page 71). Other cable glands on demand.

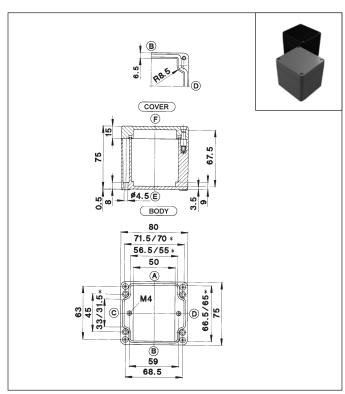
Polyester Enclosures – Series CP

80 x 75 x 55 mm

CP-140 RAL 7000 (squirrel grey) CPS-140 RAL 9005 (jet black)

80 x 75 x 75 mm

CP-145 RAL 7000 (squirrel grey) CPS-145 RAL 9005 (jet black)



^{*} Smaller dimension at mounting plate support

| Туре | | | | | | | | | | CP-140 | CPS-140 | |
|---|---------------|--------|---------|--------|--------|--------|-------|-------|--------|-------------|---------|--|
| Weight (g) | | | | | | | | | | 230 | 230 | |
| External dir | nensio | n (m | m) | | | | | | | 80 x 75 x | 55 | |
| Ordering d | ata Er | nclosi | ıre wi | th se | al (PU | IR) | | | | Part number | | |
| RAL 7000 (s | quirre | l grey | /), wit | h cov | er scr | ews | | | | 4140000 | 0000 | |
| RAL 9005 (jet black), with cover screws | | | | | | | | | | | 0000 | |
| | | | | | | | | | | | | |
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| Accessorie | s (indi | vidua | l part | or in | stalla | tion k | it) | | | | | |
| Mounting p | late | | | | | | | | | 9823000 | 0000 | |
| Mounting r | ail TS 1 | 15 | | | | | | | | 9820003000 | | |
| Mounting r | ail TS 3 | 32 | | | | | | | | _ | | |
| Mounting r | ail TS 3 | 35 | | | | | | | | - | | |
| Earthing rai | l | | | | | | | | | - | | |
| External mo | ountin | g bra | ckets | | | | | | | 9824000 | 0000 | |
| External art | iculate | ed hir | nges f | or CP | ** en | closui | res | | | - | | |
| External art | iculate | ed hir | nges f | or CP | S** e | nclosi | ures | | | - | | |
| Internal art | iculate | d hin | ges w | ith c | over o | guide | ** | | | - | | |
| Silicone sea | I for e | xtend | led te | mper | ature | rang | e (by | the n | netre) | on requ | est | |
| | | | | | | | | | | | | |
| Maximum | possil | ole nu | umbe | r of t | hrea | ds | | | | | | |
| ISO M | 12 | 16 | 20 | 25 | 32 | 40 | 50 | 63 | | | | |
| Side A/B | 5 | 2 | 2 | 1 | 0 | 0 | 0 | 0 | | | | |
| Side C/D | 2 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | | | | |
| ** Enclosur | e prep | aratio | n rec | uirec | 1 | | | | | | | |

^{*} Smaller dimension at mounting plate support

| Type | | | | | | | | | | CP-145 | CPS-145 | |
|------------------|--------------|------------|--------|--------|--------|--------|-------|------|-------|-------------|---------|--|
| Weight (g) | | | | | | | | | | 300 | 300 | |
| External dime | nsior | n (mn | า) | | | | | | | 80 x 75 x | 75 | |
| Ordering data | a End | losui | re wit | h sea | l (PUI | ₹) | | | | Part number | | |
| RAL 7000 (squ | irrel | grey) | , with | cove | r scre | ews | | | | 4140000050 | | |
| RAL 9005 (jet | | 5140000 | 050 | | | | | | | | | |
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| | | | | | | | | | | | | |
| Accessories (i | ndivi | idual | part | or ins | tallat | ion ki | t) | | | | | |
| Mounting plat | | 9823000000 | | | | | | | | | | |
| Mounting rail | TS 15 | 5 | | | | | | | | 9820003000 | | |
| Mounting rail | TS 32 | 2 | | | | | | | | - | | |
| Mounting rail | TS 35 | 5 | | | | | | | | - | | |
| Earthing rail | | | | | | | | | | - | | |
| External mour | nting | brac | kets | | | | | | | 9824000 | 000 | |
| External articu | ılated | d hing | ges fo | r CP* | * enc | losure | es | | | - | | |
| External articu | ılated | d hing | ges fo | or CPS | ** en | closu | res | | | - | | |
| Internal articu | lated | l hing | jes w | ith co | ver g | uide* | * | | | - | | |
| Silicone seal fo | or ext | tende | ed ter | npera | ature | range | (by t | he m | etre) | on reque | est | |
| | | | | | | | | | | | | |
| Maximum po | ssibl | e nu | mbei | of th | read | ls | | | | | | |
| ISO M | 12 | 16 | 20 | 25 | 32 | 40 | 50 | 63 | | | | |
| Side A/B | 8 | 4 | 2 | 1 | 1 | 0 | 0 | 0 | | | | |
| Side C/D | 4 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | | | | |
| ** Enclosure p | repa | ratio | ı requ | uired | | | | | | | | |
| | | | | | | | | | | | | |

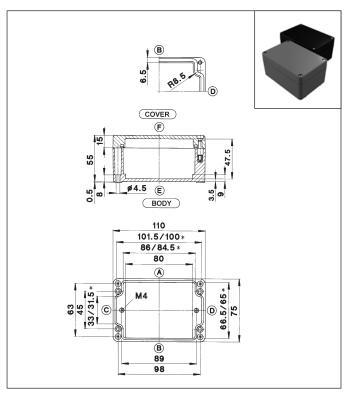


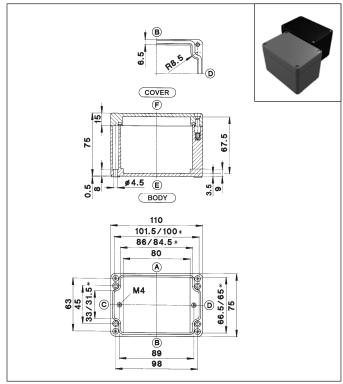
110 x 75 x 55 mm

CP-150 RAL 7000 (squirrel grey) CPS-150 RAL 9005 (jet black)

110 x 75 x 75 mm

CP-155 RAL 7000 (squirrel grey) CPS-155 RAL 9005 (jet black)





 $[\]hbox{* Smaller dimension at mounting plate support}\\$

| Туре | CP-150 | CPS-150 | |
|---|-------------|---------|--|
| Weight (g) | 295 | 295 | |
| External dimension (mm) | 110 x 75 | x 55 | |
| Ordering data Enclosure with seal (PUR) | Part number | | |
| RAL 7000 (squirrel grey), with cover screws | 4150000 | 0000 | |
| RAL 9005 (jet black), with cover screws | 5150000 | 0000 | |
| | | | |
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| | | | |
| | | | |
| Accessories (individual part or installation kit) | | | |
| Mounting plate | 9823001 | 000 | |
| Mounting rail TS 15 | 9820006000 | | |
| Mounting rail TS 32 | - | | |
| Mounting rail TS 35 | - | | |
| Earthing rail | - | | |
| External mounting brackets | 9824000 | 0000 | |
| External articulated hinges for CP** enclosures | - | | |
| External articulated hinges for CPS** enclosures | - | | |
| Internal articulated hinges with cover guide** | - | | |
| Silicone seal for extended temperature range (by the metre) | on reque | est | |
| | | | |
| Maximum possible number of threads | | | |
| ISO M 12 16 20 25 32 40 50 63 | | | |
| Side A/B 8 3 2 2 0 0 0 0 | | | |
| Side C/D 2 1 1 0 0 0 0 0 | | | |
| ** Enclosure preparation required | | | |

^{*} Smaller dimension at mounting plate support

| _ | | | | | | | | | | | | | |
|---------------------|--|------------|--------|--------|---------|--------|-----|-------|-------|-------------|------|--|--|
| Туре | | | | | | | | | | CP-155 | | | |
| Weight (g) | | | | | | | | | | 360 | 360 | | |
| External dime | nsior | n (mm | 1) | | | | | | | 110 x 75 | x 75 | | |
| Ordering dat | a End | losur | e wit | h sea | l (PUF | R) | | | | Part number | | | |
| RAL 7000 (squ | ıirrel | grey), | with | cove | r scre | ews. | | | | 4150000050 | | | |
| RAL 9005 (jet | AL 9005 (jet black), with cover screws | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | |
| Accessories (| indiv | idual | part (| or ins | tallati | ion ki | t) | | | | | | |
| Mounting pla | | 9823001000 | | | | | | | | | | | |
| Mounting rail | TS 15 | 5 | | | | | | | | 9820006000 | | | |
| Mounting rail | TS 32 | 2 | | | | | | | | - | | | |
| Mounting rail | TS 35 | 5 | | | | | | | | _ | | | |
| Earthing rail | | | | | | | | | | _ | | | |
| External mou | nting | bracl | kets | | | | | | | 9824000 | 000 | | |
| External articu | ulated | d hing | ges fo | r CP* | * enc | losure | es | | | _ | | | |
| External articu | ulated | d hind | es fo | r CPS | ** en | closu | res | | | _ | | | |
| Internal articu | lated | l hing | es wi | th co | ver q | uide* | * | | | _ | | | |
| Silicone seal fo | | | | | | | | he me | etre) | on reque | st | | |
| | | | | | | , | , . | | -, | - 1 | | | |
| Maximum po | ssibl | e nui | mber | of th | read | s | | | | | | | |
| ISO M | 12 | 16 | 20 | 25 | 32 | 40 | 50 | 63 | | | | | |
| Side A/B | 12 | 6 | 3 | 2 | 2 | 0 | 0 | 0 | | | | | |
| Side C/D | 4 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | | | | | |
| ** Enclosure p | repa | ratior | reau | ired | | _ | | - | | | | | |
| 2 | сри | | | | | | | | | | | | |

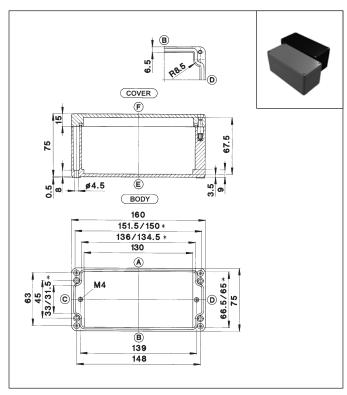
Polyester Enclosures – Series CP

160 x 75 x 55 mm

CP-170 RAL 7000 (squirrel grey) CPS-170 RAL 9005 (jet black)

160 x 75 x 75 mm

CP-175 RAL 7000 (squirrel grey) CPS-175 RAL 9005 (jet black)



^{*} Smaller dimension at mounting plate support

| Туре | | | | | | | | | | CP-170 | CPS-170 | |
|--------------|----------------|--------|---------|--------|--------|--------|-------|-------|--------|-------------|---------|--|
| Weight (g) | | | | | | | | | | 405 | 405 | |
| External di | mensio | on (m | m) | | | | | | | 160 x 75 | x 55 | |
| Ordering of | data Er | nclosi | ıre wi | th se | al (PU | R) | | | | Part number | | |
| RAL 7000 (| squirre | l grey | /), wit | h cov | er scr | ews | | | | 4170000 | 0000 | |
| RAL 9005 (| 5170000 | 0000 | | | | | | | | | | |
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| Accessorie | s (indi | vidua | l part | or in | stalla | tion k | it) | | | | | |
| Mounting | plate | | | | | | | | | 9823002 | 2000 | |
| Mounting | rail TS 1 | 15 | | | | | | | | 9820012000 | | |
| Mounting | rail TS 3 | 32 | | | | | | | | - | | |
| Mounting | rail TS 3 | 35 | | | | | | | | - | | |
| Earthing ra | il | | | | | | | | | - | | |
| External m | ountin | g bra | ckets | | | | | | | 9824000 | 0000 | |
| External ar | ticulate | ed hir | nges f | or CP | ** en | closui | res | | | - | | |
| External ar | ticulate | ed hir | nges f | or CP | S** e | nclosi | ıres | | | - | | |
| Internal art | ticulate | d hin | ges w | ith c | over o | guide | ** | | | - | | |
| Silicone sea | al for e | xtend | led te | mper | ature | rang | e (by | the n | netre) | on requ | est | |
| | | | | | | | | | | | | |
| Maximum | possil | ole ni | umbe | r of t | hrea | ds | | | | | | |
| ISO M | 12 | 16 | 20 | 25 | 32 | 40 | 50 | 63 | | | | |
| Side A/B | 12 | 5 | 4 | 3 | 0 | 0 | 0 | 0 | | | | |
| Side C/D | 2 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | | | | |
| ** Enclosur | re prep | aratio | on rec | uirec | 1 | | | | | | | |

^{*} Smaller dimension at mounting plate support

| Туре | | | | | | | | | | CP-175 | CPS-175 | | |
|-----------------------------------|---------|------------|--------|--------|---------|--------|-------|-------|-------|------------|---------|--|--|
| Weight (g) | | | | | | | | | | 460 | 460 | | |
| External dime | nsior | n (mn | n) | | | | | | | 160 x 75 | x 75 | | |
| Ordering dat | a End | losu | re wit | h sea | I (PUF | ₹) | | | | Part nun | nber | | |
| RAL 7000 (squ | uirrel | grey) | , with | cove | er scre | ews | | | | 4170000050 | | | |
| RAL 9005 (jet | | 5170000 | 050 | | | | | | | | | | |
| | | | | | | | | | | | | | |
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| Accessories (| indiv | idual | part | or ins | tallat | ion ki | t) | | | | | | |
| Mounting pla | 9823002 | 9823002000 | | | | | | | | | | | |
| Mounting rail | TS 15 | 5 | | | | | | | | 9820012000 | | | |
| Mounting rail | TS 32 | 2 | | | | | | | | - | | | |
| Mounting rail | TS 35 | 5 | | | | | | | | - | | | |
| Earthing rail | | | | | | | | | | - | | | |
| External mou | nting | brac | kets | | | | | | | 9824000 | 000 | | |
| External articu | ulated | d hin | ges fo | or CP* | * enc | losure | es | | | - | | | |
| External articu | ulated | d hing | ges fo | or CPS | 5** en | closu | res | | | - | | | |
| Internal articu | ılated | hing | ges w | ith co | ver g | uide* | * | | | - | | | |
| Silicone seal fo | or ext | tende | ed ter | npera | ature | range | (by t | he me | etre) | on reque | est | | |
| | | | | | | | | | | | | | |
| Maximum po | ssibl | le nu | mbei | of th | read | ls | | | | | | | |
| ISO M | 12 | 16 | 20 | 25 | 32 | 40 | 50 | 63 | | | | | |
| Side A/B | 18 | 10 | 6 | 4 | 3 | 0 | 0 | 0 | | | | | |
| Side C/D | 4 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | | | | | |
| ** Enclosure preparation required | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |



190 x 75 x 55 mm

CP-190 RAL 7000 (squirrel grey) CPS-190 RAL 9005 (jet black)

(COVER F) (B) (COVER F) (COVER F) (D) (A) (A) (B) (COVER F) (COVER F) (D) (A) (A) (A) (B) (COVER F) (B) (COVER F) (COVER F)

(A)

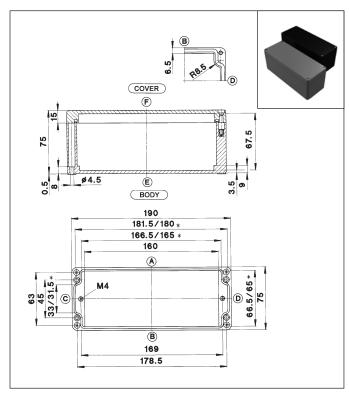
169

178.5

66.5/65* 75

190 x 75 x 75 mm

CP-195 RAL 7000 (squirrel grey) CPS-195 RAL 9005 (jet black)



 $[\]hbox{* Smaller dimension at mounting plate support}\\$

| Туре | | | | | | | | | | CP-190 | CPS-190 | |
|--------------|----------------|--------|--------|---------|--------|--------|-------|-------|-------|-------------|---------|--|
| Weight (g) | | | | | | | | | | 450 | 450 | |
| External di | mensio | on (m | m) | | | | | | | 190 x 75 | x 55 | |
| Ordering o | data Er | nclosu | ıre wi | ith sea | al (PU | IR) | | | | Part number | | |
| RAL 7000 (| squirre | l grey |), wit | h cov | er scr | ews | | | | 4190000 | 0000 | |
| RAL 9005 (| 5190000 | 0000 | | | | | | | | | | |
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| Accessorie | s (indi | vidua | l part | or in | stalla | tion k | it) | | | | | |
| Mounting | plate | | | | | | | | | 9823003000 | | |
| Mounting I | rail TS 1 | 15 | | | | | | | | 9820015000 | | |
| Mounting I | rail TS 3 | 32 | | | | | | | | - | | |
| Mounting I | rail TS 3 | 35 | | | | | | | | - | | |
| Earthing ra | il | | | | | | | | | - | | |
| External m | ountin | g bra | ckets | | | | | | | 9824000 | 0000 | |
| External ar | ticulate | ed hir | nges f | or CP | ** en | closu | res | | | - | | |
| External ar | ticulate | ed hir | nges f | or CP | S** e | nclos | ures | | | - | | |
| Internal art | iculate | d hin | ges v | vith c | over g | guide | ** | | | - | | |
| Silicone sea | al for e | xtend | led te | mper | ature | rang | e (by | the m | etre) | on requ | est | |
| | | | | | | | | | | | | |
| Maximum | possil | ole nu | ımbe | r of t | hrea | ds | | | | | | |
| ISO M | 12 | 16 | 20 | 25 | 32 | 40 | 50 | 63 | | | | |
| Side A/B | 16 | 7 | 5 | 4 | 0 | 0 | 0 | 0 | | | | |
| Side C/D | 2 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | | | | |
| ** Enclosur | e prep | aratio | n rec | uired | | | | | | | | |

^{*} Smaller dimension at mounting plate support

| Туре | | | | | | | | | | CP-195 | CPS-195 | |
|-----------------|--------|---------|--------|--------|--------|--------|-------|-------|-------|------------|---------|--|
| Weight (g) | | | | | | | | | | 530 | 530 | |
| External dime | ensio | n (mn | n) | | | | | | | 190 x 75 | x 75 | |
| Ordering dat | ta En | closui | re wit | h sea | l (PUI | ₹) | | | | Part nun | nber | |
| RAL 7000 (squ | uirrel | grey) | , with | cove | r scre | ews | | | | 4190000 | 050 | |
| RAL 9005 (jet | blacl | k), wit | h cov | er sc | rews | | | | | 5190000 | 050 | |
| | | | | | | | | | | | | |
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| Accessories (| (indiv | idual | part | or ins | tallat | ion ki | t) | | | | | |
| Mounting pla | ite | | | | | | | | | 9823003 | 000 | |
| Mounting rail | ITS 1 | 5 | | | | | | | | 9820015000 | | |
| Mounting rail | ITS 3 | 2 | | | | | | | | - | | |
| Mounting rail | ITS 3 | 5 | | | | | | | | | | |
| Earthing rail | | | | | | | | | | - | | |
| External mou | nting | brac | kets | | | | | | | 9824000 | 000 | |
| External artic | ulate | d hing | ges fo | r CP* | * enc | losure | es | | | - | | |
| External artic | ulate | d hing | ges fo | or CPS | ** en | closu | res | | | - | | |
| Internal articu | ulated | d hing | ges w | ith co | ver g | uide* | * | | | - | | |
| Silicone seal f | or ex | tende | ed ter | npera | ature | range | (by t | he me | etre) | on reque | est | |
| | | | | | | | | | | | | |
| Maximum po | ossib | le nu | mbei | of th | read | ls | | | | | | |
| ISO M | 12 | 16 | 20 | 25 | 32 | 40 | 50 | 63 | | | | |
| Side A/B | 24 | 12 | 8 | 4 | 3 | 0 | 0 | 0 | | | | |
| Side C/D | 4 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | | | | |
| ** Enclosure | orepa | ratio | n requ | uired | | | | | | | | |
| | | | | | | | | | | | | |

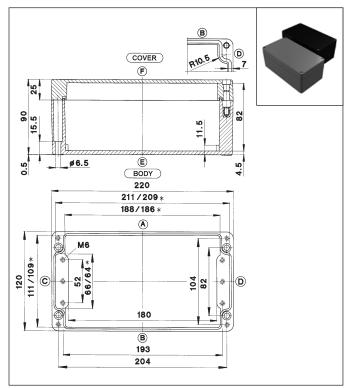
Polyester Enclosures – Series CP

122 x 120 x 90,5 mm

CP-220 RAL 7000 (squirrel grey) CPS-220 RAL 9005 (jet black)

220 x 120 x 90,5 mm

CP-240 RAL 7000 (squirrel grey) CPS-240 RAL 9005 (jet black)



^{*} Smaller dimension at mounting plate support

| Туре | | | | | | | | | | CP-220 | CPS-220 | | | |
|--------------|----------------|--------|---------|--------|--------|--------|-------|-------|--------|------------|---|--|--|--|
| Weight (g) | | | | | | | | | | 750 | 750 | | | |
| External di | mensic | n (m | m) | | | | | | | 122 x 120 | 0 x 90,5 | | | |
| Ordering of | data Er | nclosi | ıre wi | th se | al (PU | R) | | | | Part nun | nber | | | |
| RAL 7000 (| squirre | l grey | /), wit | h cov | er scr | ews | | | | 4220000 | 122 x 120 x 90,5 Part number 422000000 5220000000 9823004000 - 9821000000 9822001000 9810002000 9824001000 9801045000 9801046000 - | | | |
| RAL 9005 (| jet blad | k), w | ith co | ver so | rews | | | | | 5220000 | 0000 | | | |
| | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | |
| Accessorie | s (indi | vidua | l part | or in | stalla | tion k | it) | | | | | | | |
| Mounting | plate | | | | | | | | | 9823004 | 1000 | | | |
| Mounting I | rail TS 1 | 15 | | | | | | | | - | | | | |
| Mounting I | rail TS 3 | 32 | | | | | | | | 9821000 | 0000 | | | |
| Mounting I | rail TS 3 | 35 | | | | | | | | 9822001000 | | | | |
| Earthing ra | il | | | | | | | | | 9810002 | 2000 | | | |
| External m | ountin | g bra | ckets | | | | | | | 9824001 | 000 | | | |
| External ar | ticulate | ed hir | nges f | or CP | ** en | closu | res | | | 9801045 | 5000 | | | |
| External ar | ticulate | ed hir | nges f | or CP | S** e | nclosi | ures | | | 9801046 | 5000 | | | |
| Internal art | iculate | d hin | ges w | ith c | over g | guide | ** | | | - | | | | |
| Silicone sea | al for e | xtend | led te | mper | ature | rang | e (by | the n | netre) | on requ | est | | | |
| | | | | | | | | | | | | | | |
| Maximum | possil | ole ni | umbe | r of t | hrea | ds | | | | | | | | |
| ISO M | 12 | 16 | 20 | 25 | 32 | 40 | 50 | 63 | | | | | | |
| Side A/B | 13 | 6 | | 3 | | 1 | 0 | 0 | | | | | | |
| Side C/D | 6 | 3 | 2 | 2 | 1 | 0 | 0 | 0 | | | | | | |
| ** Enclosur | e prep | aratio | n rec | uirec | l | | | | | | | | | |

^{*} Smaller dimension at mounting plate support

| Туре | | | | | | | | | | CP-240 | CPS-240 | |
|------------------|-------------|---------|--------|--------|---------|--------|-------|-------|-------|------------|---------|--|
| Weight (g) | | | | | | | | | | 1060 | 1060 | |
| External dimer | nsior | n (mn | 1) | | | | | | | 220 x 120 | x 90,5 | |
| Ordering data | E nc | losui | e wit | h sea | I (PUF | R) | | | | Part num | ber | |
| RAL 7000 (squi | irrel | grey) | , with | cove | r scre | ws | | | | 4240000 | 000 | |
| RAL 9005 (jet k | olack | (), wit | h cov | er sci | rews | | | | | 5240000 | 000 | |
| | | | | | | | | | | | | |
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| | | | | | | | | | | | | |
| Accessories (i | ndiv | idual | part (| or ins | tallati | ion ki | t) | | | | | |
| Mounting plat | е | | | | | | | | | 9823005 | 000 | |
| Mounting rail | TS 15 | 5 | | | | | | | | - | | |
| Mounting rail | TS 32 | 2 | | | | | | | | 9821005 | 000 | |
| Mounting rail | TS 35 | 5 | | | | | | | | 9822007000 | | |
| Earthing rail | | | | | | | | | | 9810008 | 000 | |
| External moun | ting | brac | kets | | | | | | | 9824001 | 000 | |
| External articu | lated | d hing | ges fo | r CP* | * enc | losure | 25 | | | 9801045 | 000 | |
| External articu | lated | d hing | ges fo | r CPS | ** en | closu | res | | | 9801046 | 000 | |
| Internal articul | lated | hing | jes wi | th co | ver g | uide* | * | | | - | | |
| Silicone seal fo | r ext | tende | d ten | npera | ture | range | (by t | he me | etre) | on reque | st | |
| | | | | | | | | | | | | |
| Maximum pos | ssibl | le nu | mber | of th | read | s | | | | | | |
| ISO M | 12 | 16 | 20 | 25 | 32 | 40 | 50 | 63 | | | | |
| Side A/B | 27 | 12 | 9 | 6 | 4 | 3 | 0 | 0 | | | | |
| Side C/D | 6 | 3 | 2 | 2 | 1 | 0 | 0 | 0 | | | | |
| ** Enclosure p | repa | ratio | ı requ | iired | | | | | | | | |

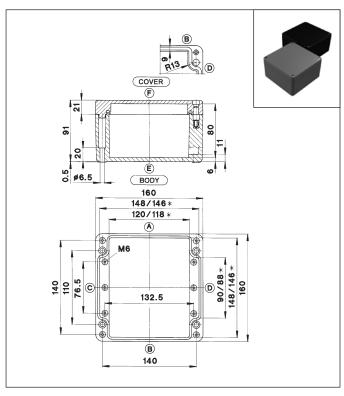


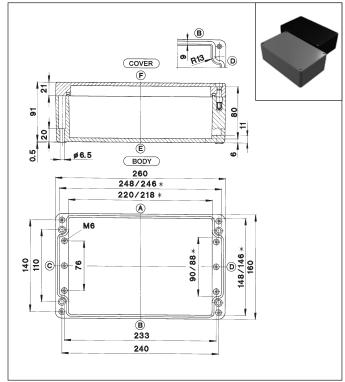
160 x 160 x 91 mm

CP-280 RAL 7000 (squirrel grey) CPS-280 RAL 9005 (jet black)

260 x 160 x 91 mm

CP-300 RAL 7000 (squirrel grey) CPS-300 RAL 9005 (jet black)





 $[\]hbox{* Smaller dimension at mounting plate support}\\$

| Туре | c | P-280 | CPS-280 | | |
|--|-----------------|---|---------|--|--|
| Weight (g) | 1 | P-280 CPS-280 1130 1130 160×160×91 Part number 4280000000 5280000000 - 9821002000 9821002000 9824004000 9824004000 9801045000 | | | |
| External dimension (mm) | 1 | 60 x 160 | x 91 | | |
| Ordering data Enclosure with seal (PUR) | P | art num | ber | | |
| RAL 7000 (squirrel grey), with cover screws | 4 | 280000 | 000 | | |
| RAL 9005 (jet black), with cover screws | 5 | 280000 | 000 | | |
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| | | | | | |
| | | | | | |
| Accessories (individual part or installation kit) | | | | | |
| Mounting plate | 9 | 823006 | 000 | | |
| Mounting rail TS 15 | - | | | | |
| Mounting rail TS 32 | 9 | 9821002000 | | | |
| Mounting rail TS 35 | 9 | 9822003000 | | | |
| Earthing rail | 9 | 810004 | 000 | | |
| External mounting brackets | 9 | 824004 | 000 | | |
| External articulated hinges for CP** enclosures | 9 | 801045 | 000 | | |
| External articulated hinges for CPS** enclosures | 9 | 801046 | 000 | | |
| Internal articulated hinges with cover guide** | 9 | 801032 | 000 | | |
| Silicone seal for extended temperature range (by the r | netre) o | n reque | st | | |
| | | | | | |
| Maximum possible number of threads | | | | | |
| ISO M 12 16 20 25 32 40 50 63 | | | | | |
| Side A/B 18 8 6 4 2 2 1 0 | | | | | |
| Side C/D 9 4 3 2 2 1 0 0 | | | | | |
| ** Enclosure preparation required | | | | | |

^{*} Smaller dimension at mounting plate support

| Туре | CP-300 CPS-300 |
|---|------------------|
| Weight (g) | 1710 1710 |
| External dimension (mm) | 260 x 160 x 91 |
| Ordering data Enclosure with seal (PUR) | Part number |
| RAL 7000 (squirrel grey), with cover screws | 430000000 |
| RAL 9005 (jet black), with cover screws | 530000000 |
| | |
| | |
| | |
| | |
| | |
| | |
| Accessories (individual part or installation kit) | |
| Mounting plate | 9823007000 |
| Mounting rail TS 15 | - |
| Mounting rail TS 32 | 9821008000 |
| Mounting rail TS 35 | 9822011000 |
| Earthing rail | 9810010000 |
| External mounting brackets | 9824004000 |
| External articulated hinges for CP** enclosures | 9801045000 |
| External articulated hinges for CPS** enclosures | 9801046000 |
| Internal articulated hinges with cover guide** | 9801032000 |
| Silicone seal for extended temperature range (by the me | etre) on request |
| | |
| Maximum possible number of threads | |
| ISO M 12 16 20 25 32 40 50 63 | |
| Side A/B 33 15 12 8 4 3 3 0 | |
| Side C/D 9 4 3 2 2 1 0 0 | |
| ** Enclosure preparation required | |

Polyester Enclosures – Series CP

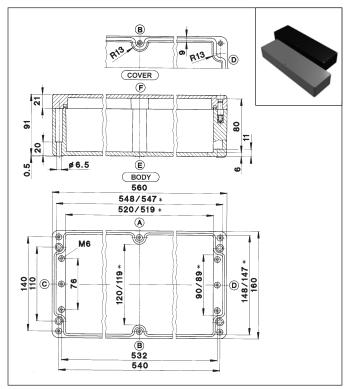
360 x 160 x 91 mm

CP-320 RAL 7000 (squirrel grey) CPS-320 RAL 9005 (jet black)

COVER BODY 366.5 BODY 360 348/346* 320/318* A B B 333 340

560 x 160 x 91 mm

CP-330 RAL 7000 (squirrel grey) CPS-330 RAL 9005 (jet black)



^{*} Smaller dimension at mounting plate support

| * Smaller dimension at mounting plate support | | |
|--|-----------|---------|
| Туре | CP-320 | CPS-320 |
| Weight (g) | 2150 | 2150 |
| External dimension (mm) | 360 x 160 |) x 91 |
| Ordering data Enclosure with seal (PUR) | Part nun | nber |
| RAL 7000 (squirrel grey), with cover screws | 4320000 | 000 |
| RAL 9005 (jet black), with cover screws | 5320000 | 000 |
| | | |
| | | |
| | | |
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| | | |
| | | |
| Accessories (individual part or installation kit) | | |
| Mounting plate | 9823008 | 000 |
| Mounting rail TS 15 | - | |
| Mounting rail TS 32 | 9821012 | 000 |
| Mounting rail TS 35 | 9822015 | 000 |
| Earthing rail | 9810014 | 000 |
| External mounting brackets | 9824004 | 000 |
| External articulated hinges for CP** enclosures | 9801045 | 000 |
| External articulated hinges for CPS** enclosures | 9801046 | 000 |
| Internal articulated hinges with cover guide** | 9801032 | 000 |
| Silicone seal for extended temperature range (by the metre | on reque | est |
| | | |
| Maximum possible number of threads | | |
| ISO M 12 16 20 25 32 40 50 63 | | |
| Side A/B 48 23 18 11 7 5 4 0 | | |
| Side C/D 9 4 3 2 2 1 0 0 | | |
| ** Enclosure preparation required | | |

^{*} Smaller dimension at mounting plate support

| Туре | | | | | | | | | | CP-330 | CPS-330 | |
|-------------------|-------|---------|--------|--------|--------|--------|-------|-------|-------|------------|---------|--|
| Weight (g) | | | | | | | | | | 3185 | 3185 | |
| External dimen | sior | n (mn | 1) | | | | | | | 560 x 160 | x 91 | |
| Ordering data | Enc | losur | e wit | h sea | I (PUF | ₹) | | | | Part num | ber | |
| RAL 7000 (squi | rrel | grey) | , with | cove | r scre | ews | | | | 4330000 | 000 | |
| RAL 9005 (jet b | lack | c), wit | h cov | er sci | rews | | | | | 5330000 | 000 | |
| | | | | | | | | | | | | |
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| | | | | | | | | | | | | |
| Accessories (in | ndivi | idual | part (| or ins | tallat | ion ki | t) | | | | | |
| Mounting plate | 9 | | | | | | | | | 9823085 | 000 | |
| Mounting rail T | S 15 | 5 | | | | | | | | - | | |
| Mounting rail T | S 32 | 2 | | | | | | | | 9821015 | 000 | |
| Mounting rail T | S 35 | 5 | | | | | | | | 9822018000 | | |
| Earthing rail | | | | | | | | | | 9810016 | 000 | |
| External mount | ting | brac | kets | | | | | | | 9824004 | 000 | |
| External articul | ated | d hing | ges fo | r CP* | * enc | losure | es | | | 9801045 | 000 | |
| External articul | ated | d hing | ges fo | r CPS | ** en | closu | res | | | 9801046 | 000 | |
| Internal articula | ated | l hing | jes wi | ith co | ver g | uide* | * | | | 9801032 | 000 | |
| Silicone seal for | r ext | tende | d ten | npera | ture | range | (by t | he me | etre) | on reque | st | |
| | | | | | | | | | | | | |
| Maximum pos | sibl | e nu | mber | of th | read | ls | | | | | | |
| ISO M 1 | 2 | 16 | 20 | 25 | 32 | 40 | 50 | 63 | | | | |
| Side A/B 7 | 76 | 40 | 28 | 18 | 10 | 8 | 6 | 0 | | | | |
| Side C/D | 9 | 4 | 3 | 2 | 2 | 1 | 0 | 0 | | | | |
| ** Enclosure pr | ера | ratior | ı requ | uired | | | | | | | | |

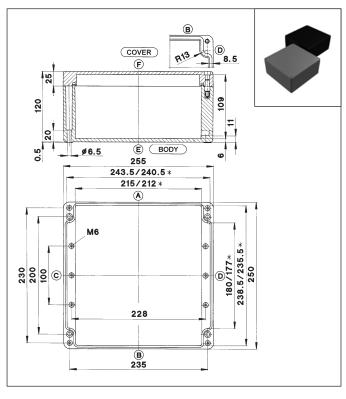


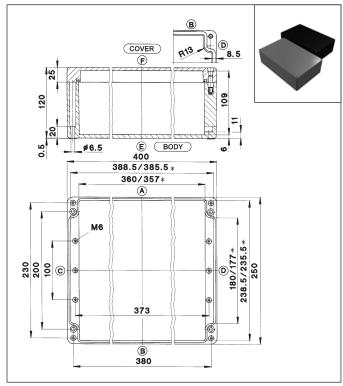
255 x 250 x 120 mm

CP-370 RAL 7000 (squirrel grey) CPS-370 RAL 9005 (jet black)

CP-400 RAL 7000 (squirrel grey) CPS-400 RAL 9005 (jet black)

400 x 250 x 120 mm





 $[\]hbox{* Smaller dimension at mounting plate support}\\$

| Туре | | | | | | | | | | | | |
|---------------------|---------|---------|--------|--------|--------|-------|--------|------|--|------|--|--|
| Weight (g) | | | | | | | | | CP-370 CPS-370 2650 2650 255 x 250 x 120 Part number 4370000000 5370000000 9823009000 - 9821007000 9824011000 9801045000 9801045000 9801032000 on request | | | |
| External dimensi | • • | | | | | | | | | | | |
| Ordering data E | nclos | ure wi | th se | al (PU | R) | | | | Part nun | nber | | |
| RAL 7000 (squirre | el grey | y), wit | h cov | er scr | ews | | | | 4370000 | 0000 | | |
| RAL 9005 (jet bla | ck), w | ith co | ver so | crews | | | | | 5370000 | 0000 | | |
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| | | | | | | | | | | | | |
| Accessories (ind | ividua | al part | or in | stalla | tion k | it) | | | | | | |
| Mounting plate | | | | | | | | | 9823009 | 0000 | | |
| Mounting rail TS | 15 | | | | | | | | - 0931007000 | | | |
| Mounting rail TS | 32 | | | | | | | | 9821007 | 000 | | |
| Mounting rail TS | 35 | | | | | | | | 9822010000 | | | |
| Earthing rail | | | | | | | | | 9810035 | 000 | | |
| External mounting | ng bra | ckets | | | | | | | 9824011 | 000 | | |
| External articulat | ed hii | nges f | or CP | ** en | closui | res | | | 9801045 | 000 | | |
| External articulat | ed hii | nges f | or CP | S** eı | nclosi | ures | | | 9801046 | 000 | | |
| Internal articulat | ed hir | iges v | ith c | over g | guide | ** | | | 9801032 | 2000 | | |
| Silicone seal for e | extend | ded te | mper | ature | rang | e (by | the me | tre) | on reque | est | | |
| | | | | | | | | | | | | |
| Maximum possi | ble n | umbe | r of t | hrea | ds | | | | | | | |
| ISO M 12 | 16 | 20 | 25 | 32 | 40 | 50 | 63 | | | | | |
| Side A/B 42 | 23 | 17 | 11 | 7 | 4 | 3 | 3 | | | | | |
| Side C/D 32 | 14 | 10 | 16 | 4 | 3 | 2 | 2 | | | | | |
| ** Enclosure prep | paratio | on rec | uirec | l | | | | | | | | |

^{*} Smaller dimension at mounting plate support

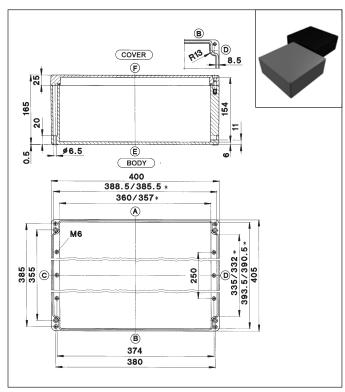
| Type | | | | | | | | | | CP-400 | CPS-400 | |
|-----------------|----------------|---------|--------|--------|--------|--------|-------|-------|------|-------------------------------|---------|--|
| Weight (g) | | | | | | | | | | 3650 | 3650 | |
| External dime | ensior | n (mn | า) | | | | | | | 400 x 250 | x 120 | |
| Ordering dat | t a End | closui | re wit | h sea | I (PUF | R) | | | | Part nun | nber | |
| RAL 7000 (squ | uirrel | grey) | , with | cove | r scre | ews. | | | | 4400000 | 000 | |
| RAL 9005 (jet | black | c), wit | h cov | er sci | rews | | | | | 5400000 | 000 | |
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| Accessories (| indiv | idual | part | or ins | tallat | ion ki | t) | | | | | |
| Mounting plate | | | | | | | | | | 9823010000 - | | |
| Mounting rail | TS 15 | 5 | | | | | | | | 9823010000 - 9821014000 | | |
| Mounting rail | TS 32 | 2 | | | | | | | | 9821014 | 000 | |
| Mounting rail | TS 35 | 5 | | | | | | | | 9822017000 | | |
| Earthing rail | | | | | | | | | | 9810015 | 000 | |
| External mou | nting | brac | kets | | | | | | | 9824011 | 000 | |
| External artic | ulated | d hing | ges fo | or CP* | * enc | losure | es | | | 9801045 | 000 | |
| External artic | ulated | d hing | ges fo | or CPS | ** en | closu | res | | | 9801046 | 000 | |
| Internal articu | ulated | hing | jes w | ith co | ver g | uide* | * | | | 9801032 | 000 | |
| Silicone seal f | or ext | tende | d ter | npera | ture | range | (by t | he me | tre) | on reque | est | |
| | | | | | | | | | | | | |
| Maximum po | ossibl | le nu | mbei | of th | read | s | | | | | | |
| ISO M | 12 | 16 | 20 | 25 | 32 | 40 | 50 | 63 | | | | |
| Side A/B | 74 | 38 | 27 | 17 | 13 | 6 | 5 | 4 | | | | |
| Side C/D | 32 | 14 | 10 | 8 | 4 | 3 | 2 | 2 | | | | |
| ** Enclosure | orepa | ratio | ı requ | uired | | | | | | | | |
| | | | | _ | | | | | | | | |

400 x 405 x 120 mm

CP-450 RAL 7000 (squirrel grey) CPS-450 RAL 9005 (jet black)

400 x 405 x 165 mm

CP-460 RAL 7000 (squirrel grey) CPS-460 RAL 9005 (jet black)



^{*} Smaller dimension at mounting plate support

| Туре | | | | | | | | | CP-450 | CPS-450 | | |
|---------------------|----------|-----------|---------|--------|--------------------|---------------|-------|-------|------------|---------|--|--|
| Weight (g) | | | | | | | | | 5580 | 5580 | | |
| External dime | nsion | (mm) | | | | | | | 400 x 40 | 5 x 120 | | |
| Ordering dat | a Encl | osure w | ith se | al (PU | R) | | | | Part nun | nber | | |
| RAL 7000 (squ | ıirrel g | rey), wit | h cov | er scr | ews | | | | 4450000 | 0000 | | |
| RAL 9005 (jet | black), | with co | ver so | crews | | | | | 5450000000 | | | |
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| | | | | | | | | | | | | |
| Accessories (| individ | ual par | t or in | stalla | tion k | it) | | | | | | |
| Mounting pla | te | | | | | | | | 9823011 | 000 | | |
| Mounting rail | TS 15 | | | | | | | | - | | | |
| Mounting rail | TS 32 | | | | | | | | 9821014000 | | | |
| Mounting rail | TS 35 | | | | | | | | 9822017000 | | | |
| Earthing rail | | | | | | | | | 9810015 | 000 | | |
| External mou | nting b | rackets | | | | | | | 9824012 | 2000 | | |
| External articu | ulated | hinges 1 | for CP | ** en | closur | es | | | 9801045 | 000 | | |
| External articu | ulated | hinges 1 | for CP | S** eı | nclosu | ıres | | | 9801046 | 000 | | |
| Internal articu | ılated l | ninges v | vith c | over o | guide [:] | ** | | | 9801032 | 2000 | | |
| Silicone seal fo | or exte | nded te | emper | ature | rang | e (by | the m | etre) | on requ | est | | |
| | | | | | | | | | | | | |
| Maximum po | ssible | numbe | er of t | hrea | ds | | | | | | | |
| ISO M | 12 1 | 6 20 | 25 | 32 | 40 | 50 | 63 | | | | | |
| Side A/B | 74 3 | 8 27 | 17 | 13 | 6 | 5 | 4 | | | | | |
| Side C/D | 57 2 | 9 20 | 15 | 7 | 5 | 4 | 4 | | | | | |
| ** Enclosure p | | tion ro | | | | | | | | | | |

^{*} Smaller dimension at mounting plate support

| Туре | | | | | | | | | | CP-460 | CPS-460 | | |
|----------------|---------------|---------|--------|--------|--------|--------|-------|------|-------|------------|---------|--|--|
| Weight (g) | | | | | | | | | | 7740 | 7740 | | |
| External dim | nensio | n (mn | n) | | | | | | | 400 x 405 | 5 x 165 | | |
| Ordering da | ata En | closu | re wit | h sea | l (PUI | R) | | | | Part nun | nber | | |
| RAL 7000 (so | quirrel | grey) | , with | cove | r scre | ews | | | | 4460000 | 0000 | | |
| RAL 9005 (je | et blac | k), wit | th cov | er sc | rews | | | | | 5460000 | 0000 | | |
| | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | |
| Accessories | (indiv | ridual | part | or ins | tallat | ion ki | t) | | | | | | |
| Mounting p | late | | | | | | | | | 9823011 | 000 | | |
| Mounting ra | il TS 1 | 5 | | | | | | | | 9821014000 | | | |
| Mounting ra | il TS 3 | 2 | | | | | | | | 9821014 | 1000 | | |
| Mounting ra | il TS 3 | 5 | | | | | | | | 9822017000 | | | |
| Earthing rail | | | | | | | | | | 9810015000 | | | |
| External mo | unting | brac | kets | | | | | | | 9824012 | 2000 | | |
| External arti | culate | d hin | ges fo | or CP* | * enc | losure | es | | | 9801045 | 000 | | |
| External arti | culate | d hin | ges fo | or CPS | ** en | ıclosu | res | | | 9801046 | 000 | | |
| Internal artic | culated | d hing | ges w | ith co | ver g | uide* | * | | | 9801032 | 2000 | | |
| Silicone seal | for ex | tende | ed ter | npera | ature | range | (by t | he m | etre) | on reque | est | | |
| | | | | | | | | | | | | | |
| Maximum p | ossib | le nu | mbe | of th | read | ls | | | | | | | |
| ISO M | 12 | 16 | 20 | 25 | 32 | 40 | 50 | 63 | | | | | |
| Side A/B | 105 | 56 | 40 | 27 | 20 | 10 | 9 | 8 | | | | | |
| Side C/D | 92 | 45 | 30 | 23 | 12 | 9 | 6 | 5 | | | | | |
| ** Enclosure | prepa | ratio | n req | uired | | | | | | | | | |
| | | | - 1 | | | | | | | | | | |

Screwed Cable Glands for Standard Enclosures



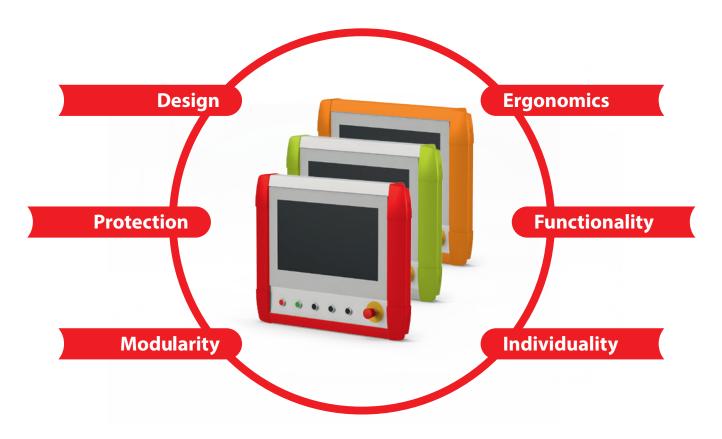
| Plastic cable glands in RAL 7001 | | | | | | | | | |
|----------------------------------|----------------------|--|-------------|--------------|-----|----------------|--|--|--|
| General technical dat | a | | Thread size | Cable ø (mm) | * 🖰 | Article number | | | |
| Colour | RAL 7001 | | M12 x 1,5 | 3–6 | 15 | 9432462000 | | | |
| Temperature range | −20°C to +100°C | | M16 x 1,5 | 5–10 | 20 | 9432463000 | | | |
| Protection class | IP68 | | M20 x 1,5 | 8–13 | 24 | 9432464000 | | | |
| Material | Polyamide PAG V-2 | | M25 x 1,5 | 11–17 | 29 | 9432465000 | | | |
| Sealing element | CR/NBR | | M32 x 1,5 | 15–21 | 36 | 9432466000 | | | |
| | | | M40 x 1,5 | 19–28 | 46 | 9432467000 | | | |
| | | | M50 x 1,5 | 27–35 | 55 | 9432468000 | | | |
| | | and the same of th | M63 x 1,5 | 32-42 | 68 | 9432469000 | | | |
| | | | PG7 | 3–6,5 | 15 | 9432291000 | | | |
| | | Provis | PG9 | 4–8 | 19 | 9432292000 | | | |
| | | 0.7441.5 | PG11 | 5–10 | 22 | 9432293000 | | | |
| | | | PG13,5 | 6–12 | 24 | 9432294000 | | | |
| | | | PG16 | 10–14 | 27 | 9432295000 | | | |
| | | | PG21 | 13–18 | 33 | 9432296000 | | | |
| | | | PG29 | 18–25 | 42 | 9432297000 | | | |
| | | | PG36 | 22–32 | 53 | 9432298000 | | | |
| | | | PG42 | 30–38 | 60 | 9432299000 | | | |
| | | | PG48 | 34-44 | 65 | 9432300000 | | | |

| Plastic cable glands in RAL 7035 | | | | | | | | | |
|----------------------------------|----------------|--|-------------|--------------|-----|--------------|--|--|--|
| General technical data | | | Thread size | Cable ø (mm) | * 🖰 | Article numl | | | |
| our | RAL 7035 | | M12 x 1,5 | 3–6,5 | 15 | 9432549000 | | | |
| emperature range | −30°C to +80°C | | M16 x 1,5 | 5–10 | 22 | 9432455000 | | | |
| rotection class | IP68 | | M20 x 1,5 | 6–12 | 24 | 9432548000 | | | |
| Material | Polyamide 6 | | M20 x 1,5 | 10–14 | 27 | 9432456000 | | | |
| Sealing element | Neoprene | | M25 x 1,5 | 13–18 | 33 | 9432457000 | | | |
| | | | M32 x 1,5 | 18–25 | 36 | 9432458000 | | | |
| | | | M40 x 1,5 | 22-23 | 46 | 9432459000 | | | |
| | | | M50 x 1,5 | 30–38 | 60 | 9432460000 | | | |
| | | | M63 x 1,5 | 34-44 | 65 | 9432461000 | | | |
| | | | PG7 | 3–6,5 | 15 | 9432445000 | | | |
| | | | PG9 | 4–8 | 19 | 9432446000 | | | |
| | | | PG11 | 5–10 | 22 | 9432447000 | | | |
| | | | PG13,5 | 6–12 | 24 | 9432448000 | | | |
| | | | PG16 | 10–14 | 27 | 9432449000 | | | |
| | | | PG21 | 13–18 | 33 | 9432450000 | | | |
| | | | PG29 | 18–25 | 42 | 9432451000 | | | |

| General technical data | | | | Thread size | Cable ø (mm) | * () | Article number | |
|------------------------|-----------------|--|--|-------------|--------------|------|----------------|--|
| Temperature range | -20°C to +100°C | | | M12 x 1,5 | 3–6 | 14 | 9431280000 | |
| Protection class | IP68 | | | M16 x 1,5 | 5–9 | 17 | 9431281000 | |
| Material | Brass | | | M20 x 1,5 | 9–13 | 22 | 9431282000 | |
| Sealing element | CR/NBR | | | M25 x 1,5 | 11–16 | 27 | 9431283000 | |
| | | | | M32 x 1,5 | 14–21 | 34 | 9431284000 | |
| | | | | M40 x 1,5 | 19–27 | 43 | 9431285000 | |
| | | | | M50 x 1,5 | 24–35 | 55 | 9431286000 | |
| | | | | M63 x 1,5 | 32-42 | 65 | 9431287000 | |
| | | | | PG7 | 3–6,5 | 14 | 9431165000 | |
| | | | | PG9 | 4–8 | 17 | 9431166000 | |
| | | | | PG11 | 5–10 | 20 | 9431167000 | |
| | | | | PG13,5 | 6–12 | 22 | 9431168000 | |
| | | | | PG16 | 10-14 | 24 | 9431169000 | |
| | | | | PG21 | 13–18 | 30 | 9431170000 | |
| | | | | PG29 | 18–25 | 40 | 9431171000 | |
| | | | | PG36 | 24–32 | 50 | 9431172000 | |
| | | | | PG42 | 30-38 | 57 | 9431173000 | |
| | | | | PG48 | 34–44 | 64 | 9431174000 | |

Control Enclosures by BERNSTEIN

Design aspects along with modularity, functionality and ergonomics, are rapidly becoming more and more important for plant and machinery manufacturers, especially when selecting the appropriate control enclosure for their machines and installations. To meet the increasing demand for aesthetically pleasing enclosures, we have developed a new BERNSTEIN Control Enclosure System. See for yourself.



Optimum heat dissipation due to single-walled sections

Due to the single-walled version of the aluminium sections, a good and passive heat dissipation that complies with the protection class IP 65 is assured. For applications with an increased requirement for heat dissipation, wear resistant and maintenance-free ventilators or air conditioners are available.

Suspension system attachment

The suspension systems from BERNSTEIN also combine functionality with attractive design. The high quality material is extremely stable, easy to clean, and simple and quick to install. An extremely high load capacity allows individual configurations for different requirements.





Modular Aluminium Control Enclosure CC-5009

Protection in its most beautiful form

The aluminium control enclosure CC-5000 neXt offers a unique design with a number of accessories such as the status light. The rounded contours ensure the enclosure is highly recognisable in machinery and mechanical engineering applications. Dimensions up to a maximum 1000 mm in height and width with possible installation depths from 53 to 334 mm.



NEW

Modular Aluminium Control Enclosures CC-4000 and CC-4000 SL

The technical features of the CC-4000 enclosures encapsulate industrial controllers and operator control panels for centralised and decentralised automation in production processes. Thanks to the modular design, the enclosure dimensions can be freely selected (up to 800×800) with depths ranging from 52 mm up to maximum 646 mm.

The CC-4000 SL has an elegant and lean profile design, making the complete machine and system appear modern and dynamic.



Modular Aluminium Light-Duty Control Enclosure CC-3000

The CC-3000 is especially suitable for encapsulating control units, industrial computers and display components. It can be freely selected in height and width up to a maximum dimension of approximately 600×600 mm.

Different enclosure depths are possible due to the combination of aluminium sections (120 mm and 200 mm) with the additional door section (55 mm). BERNSTEIN offers sections in standard and handle versions.



Modular Aluminium Control Enclosure CC-5000

Product features

- Custom versions can be supplied to meet individual customer specifications (see "Checklists" chapter)
- Innovative and modern industrial design
- Rounded edges, no risk of physical injury
- High-quality extruded aluminium sections (naturally anodised)
- Customised colours from RAL range
- Single-walled sections that provide outstanding heat dissipation
- Integrated recessed grips for simple handling
- Protection class IP 65
- Operating temperature -30 °C to +80 °C
- Internally mounted front panel
- Door configurations for direct access to the interior
- Slimline design for configuring flat screen systems

Material

Extruded sections Aluminium
 Die-cast corners Aluminium
 Die-cast caps Aluminium
 Sealings between section and corner module

Sealings for front panel

and rear panel EPDM, PUR and PVC

Hinge (for section combinations)
 Aluminium

Articulated hinge

(for enclosure with single sections) Aluminium

• Front panel, rear panel Aluminium

Colour

Sections naturally anodised (standard)

Front panel, rear panel naturally anodised (standard)

- Corner modules RAL 9006, white aluminium (standard)
- All components can be optionally powder-coated to a wide variety of RAL colours

Dimensions

• Width x height maximum: 1000 mm x 1000 mm

• Width x height minimum: 277 mm x 377 mm

Control Enclosure versions

The dimensions of the new control enclosure CC-5000 neXt (along with our existing series CC-3000, CC-4000 and CC-4000 SL) are freely selectable. Nine possible depths are available. The obtained installation depths range from 53 mm to 334 mm. The width and height dimensions are offered up to 1000 mm in either direction.

Frames can be used in individual or multiple combinations. Innovative console configurations are possible thanks to a connecting element which has been designed in line with the new design.

~

Checklist CC-5000 neXt on page 94.

Modular system



Approvals

c UL us (label on demand)



Front panel

- Internally-mounted front panel through clamping tie bar
- Machining for integrating IPCs or Panel-PCs, push buttons and interfaces or engravings on demand
- Screen print according to your specifications





Individual colour combination

You are even able to personalise the colour of the enclosure to your specific corporate identity.

Corner modules, front and rear panel, as well as the sections can all be optionally powder-coated to a wide variety of RAL colours.

The corner modules are powder coated to RAL 9006 as standard, and the extruded sections are anodised (see CC-5000 neXt on page 74).



Console version



System features

For console versions, the keyboard is located in a separate housing. The coupling head specially aligned to this enclosure series makes the control panel (upper section) and the keyboard console (lower section) a compact unit.

The keyboard console can be inclined downwards by 20 degrees (when the control panel is positioned vertically) or 10 degrees (when the control panel is inclined backwards by 10 degrees).



Modular Aluminium Control Enclosure CC-5000

Highlights

Hinge



- New concealed hinge design
- Hinge is unseen when door is closed
- Unique in the market today

Door centring



- Door centred via alignment feature
- Invisible in closed position
- Secure door closing

Optional signal light



 Signal light integrated in the design (RGB-LED)



Individual frames



| External dimension | Internal dimension | Horizo | ontal section | Vertical (ha | andle) section |
|---------------------------|--------------------|---------------------------|---------------|---|----------------|
| 75 mm | 53 mm | 65 47 13.5 | | 13.5 | |
| 125 mm | 103 mm | 97 745 245 365 | Sea of Sea | 102 41 135 | |
| 185 mm | 163 mm | 157 1155 965 365 | E WATAN TO SE | 163 92 44 135 135 135 135 135 135 135 135 135 135 | P. Carlo |

Double frames (see figure vertical handle sections)



| External dimension | Internal dimension | |
|--|--------------------|--|
| 150 mm (75 + 75) | 114 mm | |
| 200 mm (75 +125 or 125 + 75) | 164 mm | |
| 250 mm (125 + 125) | 214 mm | P. P. P. |
| 260 mm (75 + 185 or 185 + 75) | 224 mm | The state of the s |
| 310 mm (125 + 185 or 185 + 125) | 274 mm | |
| 370 mm (185 + 185) | 334 mm | F. C. T. P. C. T. C. F. F. F. C. F. F. F. F. F. F. F. |

Modular Aluminium Control Enclosures CC-4000 and CC-4000 SL

Product features

- Custom versions can be supplied to meet individual customer specifications (see "Checklists" chapter)
- Simple and modern industrial design
- Freely selectable width and height (max. 800 x 800)
- Depths from 52 mm up to max. 646 mm
- High-quality aluminium casting with surface finish
- Coloured areas that emphasize the design
- Single-walled aluminium sections that provide outstanding heat dissipatione
- Integrated handle elements with vertical section
- Protection class IP 65
- Front panels internally-mounted or externally-mounted
- Simple installation of control units, or visualisation devices, thanks to all-round mounting grooves inside the enclosure

Product features SL (in addition to CC-4000)

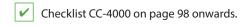
- Two enclosure depths (55 and 99 mm)
- Slimline design



Approvals

- c UL us (label on demand)
- TÜV







Handle sections left: CC-4000 SL Handle sections right: CC-4000



Application with control unit, partition and two-row operator control panel



Application with control unit



CC-4000 SL with suspension system attachment CS-2000 SL and front panel aperture



CC-4000 SL with partition and externally-mounted two-row operator control panel

- Externally mounted front panel:
 Inner depth = Outer depth 14 mm
- Internally mounted front panel:
 Inner depth = Outer depth 20 mm



CC-4000

Thanks to a variant modular system, we are able to offer enclosures according to customer needs. The desired width or height can be achieved by cutting and processing the sections. Based on our aluminium frame sections, depths from 52 mm up to maximum of 646 mm are possible.

You determine the type of access

- Hinged rear panel
- Frame section as front door for hinged mounted controller
- Frame section as rear door with articulated hinge (fixed or detachable) for servicing purposes



The single-walled aluminium section offers superior heat dissipation. In double-walled enclosures, the entrapped air acts as an insulator. Rear panel heatsink, internal ventilators or climate devices can be used for challenging applications. You will find further information in our accessory program for control enclosures.

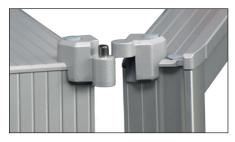
The BERNSTEIN suspension systems are ideal for attaching control enclosures to machines, walls or the floor (see "suspension systems" chapter). Selection of the suitable system depends on the arm length and the total weight of the enclosure. We would be pleased to assist you in selecting the right system for your application.



Opening CC-4000 enclosure from front with hinged frame section



Opening CC-4000 enclosure from rear with flush-closing door



Detaching entire frame section



Ergonomically formed handles make safe handling easy



Generously sized cable channels and all-round mounting grooves to install control units



Different enclosure depths thanks to the combination of frame and extension sections

Modular Aluminium Control Enclosures CC-4000 and CC-4000 SL

Dimensions

Externally mounted front panel:

- Front panel support 3.0 mm deep (sections 140, 200 and 290)
- Front panel support 6.5 mm deep (sections 52 and 80)

Installation depths

| | External dimension (mm) | Installation depth (mm) |
|-------------------------------------|-------------------------|----------------------------|
| Front profile | 52 | 38 |
| | 80 | 66 |
| | 140 | 106 |
| | 200 | 186 |
| | 290 | 276 |
| Front section SL version | 55 | 35 |
| | 99 | 79 |
| Extension section for front section | 68 | 68 |
| | 128 | 128 |
| | 228 | 228 |

Example configuration

| | External dimension (mm) | Installation depth (mm) |
|--------------------|-------------------------|-------------------------|
| Front profile | 52 | 38 |
| Extensions section | + 228 | + 228 |
| Dimensions | = 280 | = 266 |

The internal depth increases by 6 mm when the front panel is externally mounted.

Front profile

| External dimension | Internal dimension | Horizont | al section | Vertical (ha | ndle) section |
|--------------------|--------------------|--|------------|--|---------------|
| 52 mm | 38 mm | 56 56 56 21 21 21 21 21 21 21 21 21 21 21 21 21 | Page 1 | 33.1 2 2 3 8 | No. |
| 80 mm | 66 mm | 83 20.5 22 20.5 23 48.5 | F-45 | 555 22 | |
| 140 mm | 106 mm | 16.3 16.3 16.3 17.2 17.2 17.2 17.3 | MI III | 14.0 125 122 | 1 15 |
| 200 mm | 186 mm | 203 20 0 0 10 20 22 | and half | | Matter Halls |
| 290 mm | 276 mm | 299 | | *** *** *** *** *** *** *** *** *** *** *** *** ** *** *** *** *** *** *** *** *** *** *** *** *** ** *** *** *** *** *** *** *** *** *** *** *** *** ** *** *** *** *** *** *** *** *** *** *** *** *** ** *** *** *** *** *** *** *** *** *** *** *** *** ** *** *** *** *** *** *** *** *** *** *** *** *** ** *** *** *** *** *** *** *** *** *** *** *** *** ** *** *** *** *** *** * | Anna rate |



Front section SL version

| External dimension Internal dimension | | Horizontal section | | Vertical (handle) section | |
|---------------------------------------|-------|---|-------|--------------------------------|------|
| 55 mm | 35 mm | 21 22 38.5. | Left. | 53 22 23 38.5 41.5 | k- |
| 99 mm | 79 mm | \$9.5 \$1.5 \$2.5 \$3.5 \$3.5 \$3.5 \$4.5 \$5.5 | 1 45 | 97.5 97.5 22 83 86 | F TE |

Extension section for front section

| External dimension | Internal dimension | |
|--------------------|--------------------|-------------------|
| 68 mm | 68 mm | MISTE |
| 128 mm | 128 mm | MII |
| 228 mm | 228 mm | HII III a III IIE |

Modular Aluminium Light-Duty Control Enclosure CC-3000

Product features

- Custom versions can be supplied to meet individual customer specifications (see "Checklists" chapter)
- Monitor-based industrial design
- Freely selectable width and height (max. 600 x 600)
- Customised colours from RAL range
- Five possible enclosure designs
- Optimum heat dissipation due to single-walled sections
- Front panels internally-mounted or externally-mounted
- Protection class IP 65
- Screw-fixed or hinged rear panel
- Rear panel attachments without restricting installation space
- Internal grooves for fixing components
- Extensive range of accessories (see chapter, "Accessories")

Material

Extruded aluminium section Al Mg Si 05
 Pressure die-cast aluminium corners Al Si 12

Seals between section and corner module

Plastic

Seal between front panel and rear panel

CR

Hinge, articulated hinge

Al Mg Si 05

Front panel, rear panel

Al Mg

Colour

Sections naturally anodised
 Front panel, rear panel naturally anodised
 Corner modules RAL 9006



Approvals

c UL us (label on demand)



~

Checklist CC-3000 on page 102.







No handles



Handles on left, right and bottom (U-shaped)

Handles on left and right



Handles all round

Besides width, the height and depth can also be freely selected:

- Door hinge mounted on left or right
- Machining of the enclosures for mounting suspension systems
- Colour of corner modules
- Ready-to-use front panels according to customer specifications (incl. screen print or engraving)
- Specific preparation and wiring (see page 12, "System Solutions")

A checklist will help you to define the required enclosure configuration while also serving as enquiry and order form (see page 102, "Checklists").

Modular Aluminium Light-Duty Control Enclosure CC-3000





Fixed rear panel

Hinged rear panel with lock

The rear panel can be screwed down or configured as a door. The door version is used with hinges or articulated hinges and the installation space is not restricted.



Internally-mounted front panel

BERNSTEIN offers a practical assembly system to make installation simple - machining of the front plate is not necessary in this case. The fixing elements can easily be moved inside the enclosure, making it easier for the user to adjust if required.



Externally-mounted front panel

The advantages of an externally mounted front panel are that there is no longer a profile edge, and an additional installation space is created. Elements including threaded studs welded on the back of the front panel enable fixing - the same applies when the door extension is used.

Built-in components

The extruded aluminium section features all-round grooves, allowing components to be simply secured with spring nuts without the need for mechanical modification to the enclosure.



All-round mounting grooves simplify installation



Frame section

| External dimension | Internal dimension | Horizontal section | Handle section | |
|--------------------|--------------------|---|--|--|
| 120 mm | 103 mm | 77.5 | 77.5 77.5 77.5 77.5 77.5 77.5 77.5 77.5 | |
| 200 mm | 183 mm | 50.5 50.5 50.5 50.5 50.5 50.5 50.5 50.5 | 57.5 % 10.5 % | |

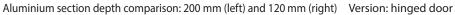
Door section

| External dimension | Internal dimension | Horizontal section | Handle section |
|--------------------|--------------------|--------------------|----------------|
| 55 mm | 46 mm | F-1-1 | Fred, |

Double frames (see figure vertical handle sections)

| External dimension | Internal dimension | |
|--------------------------|--------------------|----------|
| 175 mm (120 + 55) | 149 mm | |
| 255 mm (200 +55) | 229 mm | C teller |

Front panel / rear panel externally mounted lead to an additional installation depth of 8 mm.





Example photo Single frame



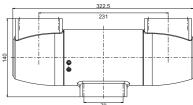
Example photo Double frame

Accessories for control enclosures

BERNSTEIN attachment solutions

Single coupling head (suspended console version)





The coupling head (single) combines the upper section of the console that is attached to a suspension system from above with the lower section. The lower section of the console can be seamlessly adjusted between 0 and 30°. Through the installation openings to the sides, cables can easily be positioned. The coupling head is available in RAL 7035 or in RAL 9006. Other colours are available on request.

Double coupling head (console version with suspension system attachment)



The coupling head (double) combines the upper section of the console with the lower section. The suspension system is attached using a CS-3000 coupling head. An infinitely variable angle adjustment of the upper section (0 - 30°) and of the lower section (0 - 20°) is possible. The coupling head is available as standard in RAL 7016 and in RAL 9006, other colours are available on request.

New coupling head 10° 10°

The new coupling head section is particularly suitable for applications where the focus is on a design-based solution. The section offers a very solid connection when using heavy and large enclosures thanks to plane support. The rear side has an installation opening for optimal cable leadthrough.

The section is anodised and the side caps are offered in RAL 9006 as standard other colours can be defined when filling out the checklist.

Rigid coupling head



For the attachment of the console upper section to the lower section. The lower section of the console is fixed and inclined by 30°. The cable channel is realised by the coupling head. The coupling heads are coated similar to RAL 9006.



BERNSTEIN attachment solutions

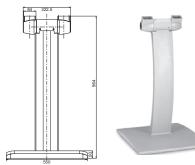




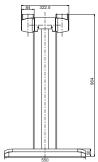
Single stand Article number 1016786000

Console stand Article number 1016787000

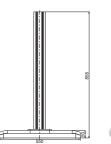
Stand CC-3000 Article number 1016509100













Upright stand with integrated coupling head for hinged attachment (infinitely variable adjustment from 0° to 30°) on BERNSTEIN control enclosures. Colour RAL 7035

Complete with installation material and instructions; mechanical machining in control enclosures is necessary.

Upright stand with integrated coupling head for hinged attachment of BERNSTEIN control enclosures (infinitely variable adjustment from 0° to 30°) and keyboard enclosures (infinitely variable adjustment from 0° to 20°).

Colour RAL 7035

Complete with installation material and instructions; mechanical machining in control and keyboard enclosures is necessary.

Upright stand with straight column for mounting control enclosures. Coated similar to RAL 7035. Please order castors and coupling components separately.

Tube 80 with cable channel

Article number 9808012800



Set of castors, consisting of 4 swivel castors. Complete with installation material and instructions. Load-bearing capacity of each castor 50 kg

Construction height 100 mm Castors Ø 75 mm

Equipment castors Article number 9808015300



Set of castors, consisting of 4 swivel castors. 2 castors with brake. Load-bearing capacity of each castor 70 kg.

Construction height 90 mm

Castors Ø 75 mm

Support feet Article number 9808012900



Vertically adjustable feet (1 set = 4 pieces). Complete with installation material and instructions.

Adjustable construction height approx. 37 - 50 mm

Accessories for control enclosures

Accessories for control enclosures CC-3000, CC-4000, CC-4000 SL and CC-5000

BERNSTEIN not only offers innovative control enclosures that can be perfectly configured to suit your specific requirements with our comprehensive range of accessories that you will find on the following pages but our system solution service also realises complete enclosure solutions.n".

The range of accessories covers the following areas:

Attachment solutions

Whether suspended, upright or mobile – we have the right system for any configuration.

Interface solutions

With the interfaces laptops, programming devices, diagnostic facilities, modems etc. can be easily connected to built-in components for servicing purposes. Simply open the cover and connect. Protection class IP 65 is retained (cover closed).

Keyboard solutions

Data input devices do not always have to be in the way. We have available excellent solutions for storing such devices and cleverly integrating them in the overall concept while retaining the user-friendly ergonomics of the system.

Handle solutions

The BERNSTEIN range of accessories also includes practical handles to ensure the enclosures are handled safely.

Safety solutions

Your safety is our concern – we therefore offer a range of accessories that help and protect.

Heat dissipation solutions

Heat dissipation is a key problem which we will gladly resolve for you. Take the easy way out and contact us. We have the right enclosures, suitable equipment and the necessary knowhow to effectively solve heat dissipation problems.

Cable solutions

It is often necessary to route cables into the enclosure – whether single core or preassembled cables, we have the right solution.

Front panel solutions

The front is the most important side of the enclosure. Here everything must be right and should look exactly as you imagined. Take advantage of our service to help you find the appropriate accessories.

Our comprehensive range of accessories is listed on the following pages.



Article Thin Client wall mount bracket – Console connector kit Suspended console coupling head enclosure attachment Article number 9806493000 9808013100 9805332000 **Attachment** solutions Design Rigid elements for connecting upper Suspended coupling head for all CC-4000 Particularly suitable for mounting an section of console to lower section, set of control enclosure suspended console enclosure on safety gate posts that can 2 connectors, finish similar to RAL 9006. versions attached to a CS-2000 suspension accept 40, 60 and 80 mm post attachments. Lower section of console, 30° inclination. system; hinged keyboard console (infinitely The plastic mount is silicone-free. Designed variable from 0° to 30°). Colour RAL 7035. for standard M6 attachment. The maximum Complete with installation material and load for central mounting is 20 kg. instructions The wall / post attachment, Art. No. 9805333000, is additionally required for a complete system. Article Tabletop feet, adjustable Tabletop feet (StopChoc) Suspension system covers CS-2000 SL/CS-3000/ CS-2000 System 80 CS-3000 neXt 9806014000 9806500000 9806495000 9806499000 Article number Design Simple plastic tabletop feet for control Vibration-absorbing tabletop feet for control For closing off unused BERNSTEIN suspension enclosures; feet can be set upright to adjust enclosures, ideal for mobile use in close system connection points (Couplings). enclosure inclination. proximity to machines or sensitive electronic Finish similar to RAL 9006. Other RAL colours equipment. available on request. Installation altitude 48 mm Set of 4 pieces Set of 4 pieces **9806495000** Flange size 60 mm **9806499000** Flange size 80 mm **Carrying handle Article number** 9806490000 Handle solutions

Design

Black carrying handle especially for small enclosures in mobile applications.

Accessories for control enclosures

Article CC handle Corner handle set **Positioning handle** Article number see specification 9806026000 see specification Handle solutions Design Straight, anodised aluminium handle. 2x black foam-coated corner handles. Anodised, ergonomically designed, formed **9808015000** Length 140 mm aluminium positioning handle. 9808015100 Length 250 mm 9808014900 Length 200 mm 9808015200 Length 350 mm 9808014600 Length 350 mm Fold-down keyboard panel Article **Keyboard shelf** Keyboard drawer 483 x 89 x 155 mm (19"/2HM) Article number 9806175000 9806488000 9806744000 **Keyboard** / support solutions Design Sheet metal, finish similar to RAL 9006. Made from coated sheet steel, finish similar With mounting pin, no lock, IP65 rating when 2x M5 holes required in enclosure. to RAL 9006. Dimensions: 483x249x50 mm. closed. Including German USB keyboard with Stainless steel version available on request. IP54 rating when open. integrated trackball. Other language-version keyboards and drawer with lock available. 495 x 255 mm Keyboard drawer 483 x 134 x 155 mm Keyboard drawer 483 x 89 x 155 mm Keyboard drawer 483 x 134 x 155 mm (19"/3HM) 20° inclination (19"/2HM) without keyboard (19"/3HM) 20° inclination without keyboard **Article number** 9806745000 9286098000 9286112000

With mounting pin, no lock, IP65 rating when

closed.

With mounting pin, no lock, IP65 rating when

closed, without keyboard.

Design

With mounting pin, no lock, IP65 rating

Other language-version keyboards and drawer with lock available. Keyboard is

inclined by 20°.

when closed Including German USB keyboard.



| Article | Interface insert | | Interface insert | | Interface insert | |
|-------------------------|--|--------------|---|-----------------------|--|---|
| Article number | | | | | 9421311000 | |
| Interface solutions | | | * (2000000000) | Õ | | |
| Design | 9421300000 2x USB 2.0 Type A shielded 9421284000 2x USB 2.0 Type A with 0.7 m cable and connector | | 9421310000 1x Sub-D9 / 1xSub-D25, female / male 9421308000 1x Sub-D9 / 1xSub-D15, female / female | | 1x RJ45 / USB BF-A / S Other interface insert | |
| Article | Interface insert | | Interface flap single | double | RJ-45 interface | USB interface |
| Article number | 9421307000 | | 9421283000 | 9421306000 | 9806519000 | 9421319000 |
| | | | in de | | | |
| Design | Earthed socket outlet | 250V | Metal silver-coloured i snap-in inserts for mor Plastic, transparent ver request. 3 mm two-wa Dimension: 66 x 120 mm | rsion and latching on | class IP65. | e dust cap, protection hole in the enclosure or ble |
| Article | Set of spring nuts M4 | M5 | Mounting brackets | | Mounting rail servic | e |
| Article number | 9806006000 | 9806007000 | 9806008000 | | On request | |
| Interior accessories | | 4 4 4 | | | | |
| Design | Set of 10 | | For attaching mountin built-in components in Dimension: 30 x 20 mr | n enclosures. | | t mounting rails to size |

Accessories for control enclosures

| Article | Earthing kit, door and externally mounted front panel | Earthing kit, door and externally mounted front panel | Set of clamping elements (PC477/577/677) |
|------------------------|---|---|--|
| Article number | 9806507000 | 9806506000 | 9806324000 |
| | 0.0000 | | |
| Design | Copper strap | Additional earthing kit for earthing externally mounted front panels or doors (green / yellow). | Set of 6 clamping elements for direct installation of Siemens Simatic Panel PC 477/577/677 |
| Article | Front panel seal | Front panel mounting kit CC-3000 / CC-4000 | Front panel mounting kit CC-5000 neXt |
| Article number | 9806373000 | 9806508000 | 9806893000 |
| Design | 2 m front panel flat seal, 6 x 2 mm, grey | For internal / external mounting of the front panel | For internal fixing of the front panel |
| | | 10 mounting elements | 10 mounting elements |
| Article Article number | 9806503000 | | |
| THE HUMBEL | | | |
| Design | For locking door in open position and for limiting opening range (approx.100°) for CC-3000 / CC-4000. | | |

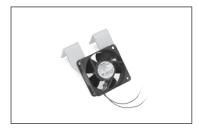
Article Front panel preparation service Crystal clear makrolon front cover **TFT** monitor mounting bracket Article number on request 9806679000 on request Machining service / special solutions Design We machine aluminium front and rear Please contact us regarding the protection Commercially available displays can be easily panels individually to suit your specific of a commercially available monitor that is secured in modern control enclosures, thus requirements. Engraving or various printing secured in the enclosure by means of a TFT encapsulating them in a way that meets processes also possible on request. monitor mounting bracket. industrial standards. Simply provide us with a drawing with your requirements. For display, pivotable with Vesa adapters 75 or 100 (15" to 20"). Article Fan mounting bracket set Filter fan set PF1000 Air conditioner 230 V, 320 W, L35L35 230 V, 400 W, L35L35

9806492000

Heat dissipation solutions

Design

Article number



9806491000





230 V filter fan + outlet filter 24 m³/h, IP54

1 pc per unit $12\,V\,/\,24\,V\,/\,48\,V$ on request

Dimension: 109 x 109 x 49/19 mm



9421279000 270 x 520 x 110 mm, 13.3 kg

further cooling capacities on request

BERNSTEIN Services

New system integration approaches such as the installation and preassembly of:

- Power supply systems
- Operating and control elements
- Membrane keypads
- Displays, power supply and data cables
- I/O assemblies
- Ethernet components
- PLC/IPC solutions of all renowned manufacturers

Services:

- Wiring
- Worked-out circuit diagram
- Installation of components
- Acceptance test



9421279000

9421276000

93

Checklist Enclosure CC-5000 neXt

| Customer: | | | | Custor | ner No.: * | | Α | rticle No.: * | | | | |
|--|--|---|----------------------------------|----------------------------------|------------------|---|------------------------|---|---------------------------------------|----------------------------|--|--|
| Address: | | | | | | | | | | | | |
| Telephone: | | | | E-mail: | | | | | | | | |
| Contact perso | n: | | | Depart | ment: | | | | | | | |
| Pricing er | nquiry | | | Target | price: | | Q | Quantity: | | | | |
| Enquiry | | | | Enquir | y No.: * | | Α | nnual requii | rement: | | | |
| Order | | | | KPA: * | | | D | elivery date | : | | | |
| 1 Checkli | st fo | r: | | encl., upper encl., lower p | checl | se fill in klist for ole versions | Adju | ustment o | Anticip installa R | ated tion weight: kg | | |
| 2 Dimens | sions | (mm) | | | | | | F., | | | | |
| Installation a Enclosure dia Front panel c with airflow humic Rear panel di with airflow humic | mension dimension dity of 0.3 imension dity of 1 i | sions (W x H) sions (e x f mm ions b x h mm | = X + 15. $= X + 20$ $= X + 10.$ | X = Y + 2i $= Y + 78$ $= Y + 78$ | 1 | Enclosure dimension H | Front panel f | Insta | ont panel e | | | |
| External dimensions min. 277 x 377 mm, max. 1000 x 1000 mm (W x H) | | | | | | | | | | | | |
| 3 Profile | seled | ction | | | | | | | | | | |
| Evtornal | | Select 1 e | enclosure section (| ʻoptional, add u | o to a maximum | of 1 door section | on!) | // | | | | |
| External depth 0 mm Front door Great Gre | | | | ure section | (fixed area) | 75 75 12 12 35 18 | まっか ま 5 まるか ま | | FP=3 Installation External dept | | | |
| Information abo | ut section | on depth dime | ensions | | | | _ | | | | | |
| Installation depth | | 53 | 103 | 114 | 163 | 164 | 214 | 224 | 274 | 334 | | |
| External depth A | T (mm) | 75 | 125 | 150 | 185 | 200 | 250 | 260 | 310 | 370 | | |
| 75 125 185 | | 75 | 125 | 75+75 | | 75+125 | 125+125 | | | | | |
| 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 | | | 123 | | 185 | | 125+125 | 185+75 | 185+125 | 185+185 | | |
| Section combinat | ion: Hin | ges with BERN | I ISTEIN logo (Ø 20 | mm) | 1 .55 | <u> </u> | | 1 .031,3 | 1031123 | 105 1105 | | |
| Door m Lock Square (mm): Triangle (mm) Two-way bit (| [): [mm):[| □ I □ 6 □ 7 | eft | or | □ 8 □ 6,5 (CN | □ right | ☐ T-han☐ T-han☐ E1 (w. | or Idle without idle with localithout key) | k** | | | |
| Daimler Benz: Special lock | : L | _ | | | | | | ndle E1 (with for 75 section | - | | | |
| special lock | | | | | | | $(\cdots = not)$ | 101 /3 SECLIOI | I) | | | |



| 6 Front panel Internally mounted ☐ none | Rear pa | | th c | door | section | Rear panel Enclosure without door section | | | | |
|---|--|----------|------|------|--|---|---|--|--|--|
| ☐ mounted☐ Front panel mounting kit | none mount | ted | | | | screw-mount VESA attach | Standard hinge (with BERNSTEIN logo) screw-mounted (externally) VESA attachment to the rear (screw-fixed rear panel); (rear panel thickness of 4 mm, possible at an installation area height of Y > 500 mm) | | | |
| 7 Partition | | | 0 |)per | ator pane | į | | | | |
| | vertical Qty: Partition height 28 mm. Leave 1 mm space between | | | | | | not mounted mounted | | | |
| 8 Keyboard drawer (at 155 mm installat (interlock via magne | | | | | none | | | | | |
| □ without keyboard, 0°, Height 89 mm □ without keyboard, 20°, Height 134 mm □ with keyboard, 0°, USB, Height 89 mm □ with keyboard, 20°, USB, Height 134 mm □ to customer specification (description un | der (1)) | | | Ke | German (St English (GB) English (US <i>I</i> Other langu | andard) | | | | |
| Preparation for susp. system | | 75 | 125 | 185 | | Entry/support po | osition | | | |
| | ponent | /3 | 123 | 100 | | □ | | | | |
| CS-3000 neXt adapter small | | _ | | | | Тор | | | | |
| Flange coupling standard* | | | | | | | | | | |
| Flange coupling system 80 | $+ \vdash +$ | | | | | | | | | |
| Turn/tilt coupling | | | | | | | Rear panel | | | |
| Tilt adapter CS-2000 SL base coupling | | | | | | | i i i i i i i i i i i i i i i i i i i | | | |
| Coupling head | | | | | | | 1) | | | |
| Coupling head, single | | | | | | □ D-# | <u> </u> | | | |
| Automotive adapter | | | | | | ∐ Botto | om | | | |
| WS coupling | | | | | | | = Component not possible | | | |
| CS-3000/48 | | | | | ☐ no pre | eparation | | | | |
| VESA-100 (Rear panel attachment) | | | | | SS cov | er, top | * CS-3000 neXt / CS-3000 / CS-2000 SL/50/60 | | | |
| Preparation on customer request (see below | v) 🗆 | | | | | ver, bottom | ** CS-3000 neXt/ CS-3000 with adapter (narrow sect. 1015300011) | | | |
| © Surface finish | Standard | | | | Special col | | (narrow sect. 1015300011) | | | |
| Horizontal sections 🔲 an | odised, nat | | | | - P 26161 601 | | | | | |
| | odised, nat | | | | | | | | | |
| <u> </u> | 9006 Stan | | | | | | | | | |
| Front panel 🔲 an | odised, nat | ural | | | | | | | | |
| • | odised, nat | ural | | | - | | | | | |
| Partition 🗌 an | odised, nat | ural | | | | | | | | |
| ① Accessories, Remarks | | | | | | | | | | |
| Annexes number of VKF* | | TA* | | | AV* | | | | | |
| □ No Annexes | | | | | 1,14 | | | | | |

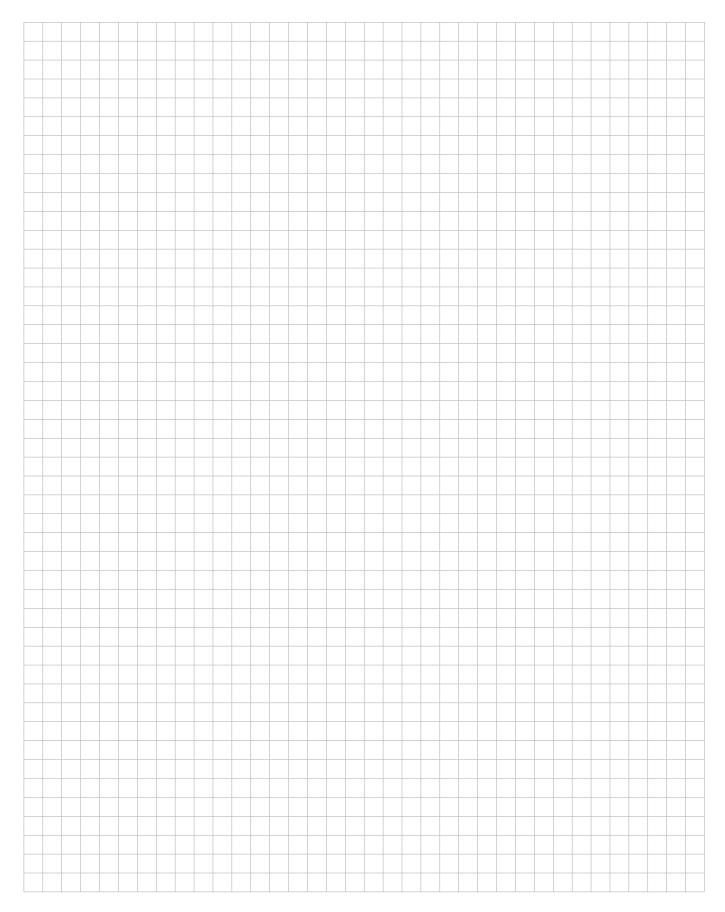
^{*} Completed by BERNSTEIN

Checklist Console Version CC-5000 neXt

| Console attachment Article No. Console Enclosure, upper part * | | | | | | | | | | | |
|--|----------------|------------------|----------------|------------|-----------------------|---------------|--|--|--|--|--|
| 2 Type of console conn | ection \circ | nly one choice i | s possible | | | | | | | | |
| Console connector section | n | C | onsole connect | or | Со | nsole couplir | ng | | | | |
| oder 1 | | 30° | oder | | | oder | | | | | |
| 20° × | | 30° | i oder i | 1 | | | , | | | | |
| 3 Preparation for susp | ension s | ystem in | the conso | le connect | tor section | * | | | | | |
| | | | | | .45/60, CS-3000, CS-3 | Only o | ne choice is possible CS-2000 Sys80 | | | | |
| preparation | Cou | ıpling or Elbow | v coupling | | | | | | | | |
| no preparation | | | | | | | | | | | |
| Surface finish Console connector section NEW (section) anodised, natural Console connector section NEW (end caps) RAL 9006 Standard Console connector RAL 9006 Standard Console coupling RAL 9006 Standard Special colour RAL Special colour RAL Special colour RAL RAL 9006 Standard RAL 9006 Standard Console coupling RAL 9006 Standard Console coupling RAL 9006 Standard | | | | | | | | | | | |
| | I | | | | | | | | | | |
| Annexes number of | VKF* | | TA* | AV* | | | | | | | |
| No Annexes | | | | | | | | | | | |



Notes



Checklist Enclosure CC-4000

| Pricing enquiry | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-------------------|-------|-------|-------|-------|--------|-------------|---------|-------|--------|----------|-------|-------|----------|-------|-------|------|-------|-----------|----------|-----------|-----|----------|------|------|---------|-------|--------|-------|-------|----------------|------|-----|-------|
| Telefax | Custo | mer | r | | | | * | Proc | luct | gro | up | | | | | | *C | ode | | | | | | * | Arti | icle | nun | nbei | r | | | | | |
| Pricing enquiry Target price Quantity | Addre | ess. | | | | | | | | | | | | | | | | | | | | | | (| Cust | tom | er N | lo. | | | | | | |
| Pricing enquiry | Telepl | hon | e | | | | | Te | elefa | ıx | | | | | | | Ind | ustr | у | | | | | | | | | | | | | | | |
| #Enquiry No. Annual requirement Order | Conta | ct p | erso | on | | | | | | | | | | | | | | | | | | | | [| Эер | artn | nen | t | | | | | | |
| #Enquiry No. Annual requirement Order | ☐ Pricing enquiry | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Enquiry | | | | | | | | | | | | | | | | | Tar | aet | nric | <u> </u> | | | | | Эца | ntit | · | | | | | | | |
| Enclosure | □Fn | aui | rv | | | | | | | | | | | | | | | ger | piic | | | | | | Zuu | | , | | | | | | | |
| Delivery date | | 9 | -, | | | | | | | | | | | | | | *Er | ngui | ry N | 0. | | | | | ٩nn | ual | requ | uirei | mer | nt | | | | |
| Enclosure | □or | der | | | | | | | | | | | | | | | | • | • | | | | | | | | Ċ | | | | | | | |
| Enclosure | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Console encl., upper section | | | | | | | | | | | | | | | | | | | | | | | | | | | ۸ | 41 -1. | | 1 | | | | |
| Console encl., lower section | O F | :nc | los | ure | 5 | | | | | | | | | ı ı | nne | r se | ctio | n . | | 7 | | T | a | | | | | | | | eiah | ıt | | |
| External encl. dimensions Width x height (W x H) 19" Enclosure W x H H = (n x HM) + 97 · 1 HM = 44,45 HM = *Front panel dim. (e x f) e x f = W - 111 x H - 97 **Rear panel dim. (w x h) W x H = W - 61 x H - 47 W x H = W - 63 x H - 47 (hinged rear panel) 3 Type of section Section without ribbing 4 Enclosure depth, ext. Frame section with 3 mm deep FP support 140 200 290 68 128 228 128 68 1aternal depth for internally mounted FP with 3 mm deep FP support When using 6,5 mm FP support, the internal depth is reduced by 3,5 mm Sec. 52 80 20 140 148 180 188 20 208 216 248 268 276 280 290 308 236 348 358 376 306 408 418 426 428 436 455 486 406 518 788 | | | | | | | | | | | | | | | | | | | W, | R | - | J | R | | | | | | | | cigii | | | |
| Width x height (W x H) | 2 [| Dim | nen | sio | ns | (m | m) | | | | | | | | | | | | В | Fro | nt | В | | | | | | | кg | | | | | |
| Width x height (W x H) | _ | _ | | | | | | | | | | | | | | | | | | | | | . F | ront | pane | el: e x | f = V | V-11 | 1 x H | -97 | | | | |
| #Front panel dim. (e x f) e x f = W - 1111 x H - 97 **Rear panel dim. (w x h) W x H = W - 61 x H - 47 W x H = W - 63 x H - 47 (hinged rear panel) **Section without ribbing #Enclosure depth, ext. Frame section Section with 6.5 mm deep FP support 140 200 290 68 128 228 128 68 Installation area: W-125 x H-111 externally mounted front panels Enclosure dimensions: B x H externally mounted front panels Enclosure di | | | | | | | | ons | | | | | × | · | | | | | | | | F | | | | | | | | D | | | | |
| #Front panel dim. (e x f) e x f = W - 1111 x H - 97 **Rear panel dim. (w x h) W x H = W - 61 x H - 47 W x H = W - 63 x H - 47 (hinged rear panel) **Section without ribbing #Enclosure depth, ext. Frame section Section with 6.5 mm deep FP support 140 200 290 68 128 228 128 68 Installation area: W-125 x H-111 externally mounted front panels Enclosure dimensions: B x H externally mounted front panels Enclosure di | 19 | 9" E | ncl | osu | re | | | Wx | Н | | | | × | (| | | | | | | | | | | | | | | | | | | | |
| *Front panel dim. (e x f) | | | | | | 1 HM | | | | | | | | | | | | | | | | | ١. | 1 | 1 | | - 14/ | 125 | | 11 | | | | |
| **Rear panel dim. (w x h) | * | Fror | nt n | ane | ıl di | m. (| ех. | f) | | | | | ν. | , | | | | | | | | | - | | | | | | | _ | 1 | | | |
| **Rear panel dim. (w x h) W x H = W - 61 x H - 47 W x H = W - 63 x H - 47 (hinged rear panel) 3 Type of section Section without ribbing 4 Enclosure depth, ext. Frame section with 3 mm deep FP support | | | | | | | | •, | | | | | _ ′ | ` | | | | | | | | L | | | | | | | | | \blacksquare | | | |
| Section Sect | ** | ·Rea | ar p | ane | l di | m. (| w x | h) | | | | | × | (| | | | | | | | | _ | | | | | | | _ | | | | |
| 3 Type of section | | | | | | | | (hine | od r | 221 12 | anal) | | | | | | | | | | | - | | | | | | | | | <u> </u> | | | |
| ## Enclosure depth, ext. Frame section | | | | | | | | (IIIII) | | | | ion | witl | hou | t rih | hin | a | | | | | , | | | | | | | | | | | | |
| with 3 mm deep FP support | _ | | | | | | | ovt | | | | | | | CIID | DIII | 9 | | Fx | ten | sinı | 1 | | | | | | | | | | | | |
| or | 9. | | 103 | uic | · u | -pt | , \ | CAL | | | | | | | nort | | | | | | 3.0. | • | | | | | | | | | | | | |
| or | | | | | | _ | | - | | □ 1 | 40 | | 200 | | 290 |) | | | | 68 | | 128 | | 228 | 3 [| 12 | 8 [| ⊒ 68 | 3 | | | | | |
| Internal depth for internally mounted FP with 3 mm deep FP support When using 6,5 mm FP support, the internal depth is reduced by 3,5 mm Section 38 66 106 126 134 166 174 186 194 202 234 254 262 266 276 294 314 322 334 344 354 362 382 394 404 412 414 422 442 472 482 504 1** 52 80 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 | or | | | | | | | ▶ | | | | | | FP su | ıppoı | rt | | | | 68 | | 128 | | 228 | 3 🗆 |] 12 | 8 [| ⊒ 68 | 3 | | | | | |
| Section Sectio | | al de | pth f | or in | terna | ally n | noun | ted F | | | | eep F | FP su | ıppoı | rt | | | | | | | | | | | | | | | | | | | |
| Section 38 66 106 126 134 166 174 186 194 202 234 254 262 266 276 294 314 322 334 344 354 362 382 394 404 412 414 422 442 472 482 504 1** 52 | When | usin | g 6,5 | mm | FP s | uppo | ort, th | ne int | ernal | dep | th is r | educ | ed b | ру 3,5 | 5 mm | | | | | | | | | | | | | | | | | | | |
| Second S | 1 - | 52 | 80 | 120 | 140 | - | | - | 200 | | \vdash | | | - | | | | - | _ | _ | | | 376 | | | - | | _ | | 456 | 486 | 496 | 518 | |
| 80 | | | 66 | | 126 | 134 | | | 186 | 194 | 202 | | 254 | 262 | | 276 | | 314 | 322 | | 344 | 354 | 362 | 382 | | 404 | 412 | 414 | 422 | 442 | 472 | 482 | 504 | ** |
| 140 | | • | | • | | | • | • | | | | • | | | | | • | | | • | | | | | • | | | | | | | | | |
| 200 | | | | | • | | | | | • | | | • | | | | Ť | | | | | • | | • | | | | | • | | | • | | nsion |
| | | | | | | | | | • | | | | • | | | | | • | • | | | | | • | | | | • | | • | | • | | Expa |
| | 290 | | | | | | | | | | | | | | | • | | | | | • | | | | | • | • | | | | • | | • | |
| 128 | 68 | | | • | | • | | • | | • | • | • | • | ٠٠ | | | | | *• | • | • | | • | • | | | • | | • | | • | • | | |
| 128 | 68 | | | | | | | • | | | • | | | • | | | | | • | | | | | | | | • | | | | | | | ction |
| 128 | | | | | | | • | | | • | | • | • | • | | | • | • | | | | | | | • | • | | | • | - | • | • | | me se |
| 228 | | | | | | | | | | | | | | | | | • | | | | | | | • | | | | | | • | | • | | Fra |
| 228 | | xterr | nal d | enth | .1=1 | nterr | l nal de | l | | Inte | nal d | enth | is in | crea | sed h | v 6 r | nm f | or ex | erna | | untin | _ | _ | | _ | | | | | ltern | ative | النا | | tion |

^{*} Completed by BERNSTEIN AG



| 5 Door moun | it. (susp. syst.) | □ Rear panel | | Rear panel | | |
|--|--|---|---------------------------------------|--|---|--|
| ☐ Automotive vei | rsion | | | 2 nd extension | | |
| | | ☐ 2 nd extension | | | | ☐ 2 nd extension |
| | | ☐ 1 st extension | | | | ☐ 1 st extension |
| 6 Partition | □ not mount. | Section/fixed rear panel | Door mounting | 1 "extension R | Door mounting | ☐ Fr. sect. (from 140) Suspension syst. position nel, anodis., int. mount. |
| | | mount.on right | horizontal | \square bottom mount. | Dim.: g x h (g | = Width, h = Height) |
| | Qty | mount. on left Qty | У | ☐ top mounted | | panel x panel x |
| (Important! Partition hei | ght for frame section with 3 | mm FP support = 20 mm/fron | nt panel support | 6.5 mm = 25 mm) | | panel x |
| 7 Front pane | □ none | Rear panel | l □ no | ne | □ standard h | iinge |
| witl | | - | | . screw-mounted | | un. rear pan. art hing |
| | ☐ 3 mm, ext. mo | ount. | ☐ hea | at sink rear panel Keyboarddrawer f | | |
| ☐ for EXTERNALLY ☐ 19" installation I | mounted panels:sea | al strip and mounting of al strip/washers/nuts N ews and captive nuts N C Panel PC | M5 | · | rd, 0°, without rd, 20°, without 0°, without lock 20°, without loc | t lock, 3HM k, Germ., PS2, 2HM ck, Germ., PS2, 3HM |
| 8 Lock Square (mm): Two-way bit (n □ Daimler Ber | | | riangle (mn □ T-handle | | ner specificatio | n |
| 9 Preparation | n for susp. syst. | | | | | _ |
| Type of coupling | | □ No | | System | □ Тор | ☐ Bottom |
| ☐ Turn/tilt couplir ☐ Flange (see Sys ☐ Tilt adapter (fro ☐ Coupling head ☐ Console connec ☐ Automotive ada ☐ KDL 16/4 | ng (from section 128 tem) om section 200) CC-4000 ctor pter dapter without SS prepar |) ☐ WS coupling ☐ CS-3000/48 ☐ Special prepar to customer s ☐ KDL 24/5 ration (KDL = cable gland st | pecificat. | □ SL (only section 80 □ CS-3000 (fr. sect. 12 □ 80 (from section 12 □ SS cover, top □ SS cover, bottom □ SS in section | 28) | |
| Qty | | Qty | | Qty | | |
| O Surface finition Horizontal sections: Partition: Front panels: Rear panels: | S: | Standard ☐ RAL 9006, pow ☐ anodised, nate ☐ RAL 9006, pow ☐ anodised, nate ☐ anodised, nate | ural /der-coated cural cural | Customer specificati | | |
| _ | | (seal, braided earthin | | | | |
| (Pv) total | installed power loss temperature, instal | | (°C | re surface) ambient temperature power supply for activ | | cation |
| (B) Accessories | | □ annexes | □ no anr | | 3 | |

Checklist Enclosure CC-4000 SL

| Customer *Product | group | *Code | | | *Arti | icle number | |
|---|--|------------------|---------|-----------|------------|--|------------------------------------|
| Address | | | | | Cust | tomer No. | |
| Telephone Telefa | X | Industry | | | | | |
| Contact person | | | | | Dep | artment | |
| ☐ Pricing enquiry | | | | | | | |
| | | Target pri | ce | | Qua | ntity | |
| ☐ Enquiry | | | | | | | |
| | | *Enquiry N | lo. | | Ann | ual requireme | nt |
| ☐ Order | | | | | | | |
| | | Delivery d | ate | | | | |
| 1 Enclosure | ☐ Standard ☐ Console enclosur ☐ Console enclosur | | | L | R L Fron | T R | Anticipated installation weight kg |
| 2 Dimensions (mm) | | | | | Froi | nt panel : e x f = W | -81 x H-73 |
| External enclosure dimensions Width x height (w x h) | x | | | | | | |
| 19" Enclosure | x | | | | | stallation area: W-9 ernally mounted fi | |
| $H = (n \times HM) + 73 - 1 HM = 44,45$ | HM <u>=</u> | | | | | ŕ | |
| Front panel dim. (e x f) e x f = B - 81 x H - 73 | x | | | | | tallation area W-11 | |
| Rear panel dim. (w x h) w x h = W - 31 x H - 23 w x h = W - 33 x H - 23 (hinged rear par | X | | | _ | | ernally mounted f | |
| 3 Type of section | ☒ Section without | ribbing | | · | | | |
| 4 Enclosure depth, ext. | rame section with 6.5 mm de | ep FP support) | | 1 1 | | | |
| | □ 55 | □ 99 | Section | 55 | 99 | Externa | l depth (mm) |
| | | | Se | 35 | 79 | | l depth (mm) |
| 5 Door mounting | | | | (internal | aeptn inci | reased by 6 mm fo | r external mounting) |
| | | | | | | | |
| | Door mounting, left | | | Door m | ounting | , right | |
| ☐ Fixed rear panel | ☐ Standard hinge☐ Screw-mount. rea | ar pan. articul. | hinge | ☐ Stan | | _ | l articulated hinge |

 $[\]ensuremath{^{*}}$ Completed by BERNSTEIN AG



| 6 Partition (Impo | ortant! Partition height for frame se | ection = 25 r | mm) | | | | | | |
|-----------------------|---------------------------------------|---------------|--|---|--------------------------------|--|--|--|--|
| not mounted(Star | ndard) | | | anodised, natural | | | | | |
| \square vertical | \square mounted on rig | ght | | for inside) s = 3 mm | | | | | |
| Qty. | \square mounted on lef | ft | Dimension: $g \times h$ ($g = Width, h = Height$) | | control pan X control pan X | | | | |
| \square waagerecht | ☐ bottom mounte | ed | (g man, n neight) | Z operator | | | | | |
| Qty. | \square top mounted | | | | | | | | |
| 7 Front panel | | | Accessories, front | panel | | | | | |
| none | with: 🗆 3 mm, int. mo | unted | for INTERNALLY moun | ted panels: seal strip ar | nd mounting materia | | | | |
| | ☐ 3 mm, ext. mo | unted | ☐ for EXTERNALLY moun | for EXTERNALLY mounted panels: seal strip/washers/nuts M5 19" installation kit (9806232000): screws and captive nuts M6 | | | | | |
| | | | | | | | | | |
| Rear panel | | | set of clamping element | nts for SIMATIC Panel P | °C 670/870 | | | | |
| □ none | with: 3 mm, externa | • | -mount. | | | | | | |
| | ☐ 3 mm, hinged | | | | | | | | |
| 8 Lock | Square (mm): | □ 7 | ☐ 8 (Standard) | ☐ T-handle without | lock | | | | |
| | Triangle (mm): \square 7 | □8 | | □ E1 | | | | | |
| | Two-way bit (mm): \square 3 | □ 5 | | ☐ Special lock/custo | omer specification | | | | |
| | Daimler Benz: | | | | | | | | |
| 9 Preparation | for suspension syst | . □N | lo | □тор | т | | | | |
| Type of coupling/sy | stem | | | | | | | | |
| | It coupling (only section 99) |) | | Side: | | | | | |
| ☐ Coupling head CO | | | | — | | | | | |
| ☐ Special preparation | on to customer specification | 1 | | ☐ Bottom | В | | | | |
| Surface finis | h | Stan | dard | Customer speci | fication | | | | |
| Horizontal sections: | | ☐ R | AL 7043, powder-coated | | | | | | |
| Vertical sections: | | ☐ aı | nodised, natural | | | | | | |
| Partition: | | | AL 7043, powder-coated | | | | | | |
| Front panels: | | _ | nodised, natural | | | | | | |
| Rear panels: | | aı | nodised, natural | Ш | | | | | |
| ① EMV Version | (electromagnetic compatibility) | | | | | | | | |
| ☐ Conductive conn | ection between enclosure b | ody, doo | r, FP and RP | | | | | | |
| 2 Automotive v | ersion; braided earthing stra | ар | | | | | | | |
| ☐ Climate contr | ol data for checking heat di | ssipation | over enclosure surface | | | | | | |
| | _(PV) total installed power | loss | | | | | | | |
| | _(°C) ambient temperature | | | | | | | | |
| | _(°C) max. temperature of in | | | | | | | | |
| | _(V) power supply for active | e cooling | | | | | | | |
| Accessories, | Remarks annexes | no anne | exes | | | | | | |

Checklist Enclosure CC-3000

| Customer * | Product group | *Code | *Article number | |
|--|-------------------------------|--|--|------------------------------------|
| Address | | | Customer No. | |
| Telephone | Telefax | Industry | | |
| Contact person | | | Department | |
| ☐ Pricing enquiry | | | | |
| | | Target price | Quantity | |
| ☐ Enquiry | | | | |
| | | *Enquiry No. | Annual requirement | |
| ☐ Order | | | | |
| | | Delivery date | | |
| ① Enclosure | | closure, upper section closure, lower section | $ \begin{array}{cccc} & & & & & & T & & & & T & & & \\ L & & & & & & & & & & & & & & & T & & \\ L & & & & & & & & & & & & & & & & T & & \\ L & & & & & & & & & & & & & & & & & & &$ | Anticipated installation weight kg |
| 2 Dimensions (mm | (always referred to the stand | ard section) | Front panel x f = W-4 | 40 x H-40 |
| External enclosure dimen Width x height (W x H) | sions x | | Installation area W- | |
| Front panel dimensions (e e x f = W -40 x H -40 | e x f) x | | internally mounted fi | ront panel |
| Rear panel dimensions W | x H x | | Installation area: W- | 75 x H-75 |
| Screw-fixed rear panel: $W \times H = W$ - | 7 x H - 7 Hinged rear pan | el: W x H = W - 9 x H - 9 | externally mounted f | |
| 3 Front design (handle | e selection) | | Enclosure dimension | |
| | | | | 7 |
| None | Bottom | Left + right | Left + right + bottom | All-round |
| important! The external enclosure | dimensions increase by 16.5 m | m on the side where a handle strip is s | selected) | |
| 9 Enclosure <i>withou</i> | t door section | | | |
| Enclosure depth External depth | Front panel p Inst | | oanel position -fixed or hinged | |
| ☐ 120 mm | Internal | | _ | dard hinge |
| ☐ 200 mm | External | ☐ 111 mm | ☐ With screv | w-mounted rear panel hi |
| ☑ 200 mm | Internal External | ☐ 183 mm ☐ 191 mm | | |
| 3 Enclosure <i>with</i> do | | | | |
| Front door or Rear doo | | FP internal and RP extern | nal FP external and RP internal | FP and RP external |
| _ 5 _ | + 55 Installation depth 14 | | <u> </u> | ☐Installation depth 166 r |
| ☐ 55 + 200 X H E E ☐ 200 · | + 55 Installation depth 22 | 29 mm Installation depth 237 m | mm Installation depth 237 mm | ☐ Installation depth 246 r |

* Completed by BERNSTEIN AG



| 6 Door mounting | | | | |
|---|--|---|--|---|
| ☐ Left | | | | ☐ Right |
| O Lock | or | 0 | or | |
| Square (mm): ☐ 6 Triangle (mm): ☐ 7 Two-way bit (mm): ☐ 3 Daimler Benz: ☐ | ☐ 7 ☐ 8 ☐ 5 ☐ Special lock/customer | 6,5 (CNOMO) | T-handle without lock T-handle with lock E1 (without key) T-handle E1 (without key | <i>(</i>) |
| 3 Front panel | Keyboard drawer | from 175 mm depth | (2HE = 89 mm, 3HE = 134 mm) | |
| □ None □ With | ☐ Without keyboard, 0°, | without lock, 2HM | 19" Installation | kitQty. |
| 9 Rear panel | ☐ Without keyboard, 20° | °, without lock, 3HM | ☐ Clamping el | ement for Simatic |
| None □ With | ☐ With keyboard, 0°, wit | | _ | |
| | ☐ With keyboard, 20°, w | | | |
| | ☐ To customer specifica | | | |
| Partition (partition height) | • | tion (description unde | 1 FOIIIC 14) | |
| ☐ Vertical | □ Not mounted (standa □ Mounted on right ty. □ Mounted on left | | Horizontal Bo | mounted (standard) ttom mounted p mounted |
| Partial front panels | \square none | | | |
| 1 st operator panel: Width > 2 st operator panel: Width > | - | | nounted | |
| 10 Preparation for susp | pension system \square None | | | □Тор |
| ☐ Standard preparation (flang) ☐ Turn/tilt coupling ☐ Tilt adapter (only section 20) ☐ Flange coupling 80 (only section 20) ☐ Console connector | | | | Side ☐ Bottom p ☐ SS cover, bottom |
| Surface finish | Standard | | Customer specificat | ion |
| Basic sections: Door sections: Corner modules/end caps: Partition: Front panels: Rear panels: Accessories, Remark KDL 16/4 Only with automotive dapter or without S | ☐ Anodis ☐ RAL 90 ☐ Anodis ☐ Anodis ☐ Anodis ☐ Anodis ☐ KS (included in delivery specification: k) | sed, natural sed, natural sed, powder-coated sed, natural sed, natural sed, natural sed, natural sey (except E1 lock) and earth Grommet 3–4 mm Qty. | Article number FP: Article number RW: _ | □ Dummy grommetQty. |
| Addtionally: | | | | |
| Annexes | Slsmn. | TA V | T AV | |

 \square No Annexes

Industrial Workstation WS-6000

Robust for harsh production environments



All industrial workstations look good on paper. It is only when they are put to the test in harsh everyday production conditions do they show what they are really worth. Therefore, the BERNSTEIN WS-6000 not only looks good, but also has the intrinsic qualities to back this up:

With its robust sheet steel cabinet and modular aluminium control enclosure, the workstation provides permanent and reliable protection for sensitive control electronics in harsh production environments. Whether vibration, impact, dust or moisture – the WS-6000 is completely unaffected while impressing with its well-conceived, unsurpassed ergonomics.

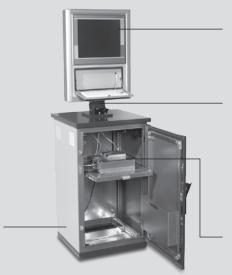
With numerous variation options and a comprehensive range of accessories, the BERNSTEIN WS-6000 is the tailor-made solution for your demanding applications: e.g. system controllers, QA workplace or signalling station.

Completely closed sheet metal cabinet with protection class IP 55. Different heights and variable colour scheme available. Standard version $600 \times 600 \times 1042$ mm and colour RAL 7035.

Product features

- Coordinated system in terms of design and configuration
- Sheet steel and aluminium design
- Individual colour schemes in most RAL shades available on request
- Protection class IP65 (cabinet IP55)
- Perfected ergonomics

- Compact design
- Service-friendly layout
- Flexible concept for tailored solutions
- Extensive range of accessories
- Complete solutions from under one roof



Modular BERNSTEIN aluminium control enclosure CC-3000, CC-4000, CC-4000 SL or CC-5000 neXt

Special coupling designs for ergonomic operation

Extensive range of BERNSTEIN accessories for equipping the inside of the cabinet with mounting rails / plates, wiring frames, climate control components and much more.



Modular control enclosures

Together with the tried-and-tested Series CC-3000 and CC-4000 / CC-4000 SL and CC-5000 neXt aluminium control enclosures, the BERNSTEIN WS-6000 workstation offers a wide variety of solutions for encapsulating operator control panels, visualisation units and IPCs. Thanks to their modular design, the control enclosures are extremely well suited for customerspecific solutions.

The width and height can be freely selected in the enclosure configuration. Base elements of different depths are simply combined to create the required enclosure depth: This makes it possible to achieve graduated installation depths from 103 mm to 246 mm for the CC-3000 and from 80 mm to more than 600 mm for the CC-4000.

As all enclosure sections feature internal grooves, components can be effortlessly mounted simply using spring nuts.

The method used to secure the internally mounted front panels is just as simple. A quick assembly system ensures the front panel can be mounted directly without the need for additional work.

You will find detailed information on our range of control enclosures from Page 72 onwards.

From page 88 onwards you will also find the extensive range of accessories for the control enclosures used in connection with the BERNSTEIN WS-6000 workstation. All accessories are designed to provide a wide variety of ergonomic solutions that ensure safe operation of the BERNSTEIN WS-6000 industrial workstation without fatigue.





Find out more. We would be pleased to show you what's possible with the WS-6000.



Industrial Workstation WS-6000

Special coupling systems

Corresponding to requirements, various coupling systems can be utilised for the purpose of connecting the control enclosure and bottom cabinet. Each coupling has its own specific features. The turn / tilt coupling for instance provides the best possible ergonomics thanks to unlimited variability it offers in aligning the control enclosure. The special design of the rotary coupling suppresses the 'chimney effect', thus preventing dust and heat from the bottom cabinet entering the control enclosure. The two base couplings, on the other hand, are particularly suitable for narrow panel enclosures.

Four coupling systems are available: Rotary coupling, turn / tilt coupling, base coupling, base tilt coupling

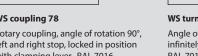




WS coupling 78

Rotary coupling, angle of rotation 90°, left and right stop, locked in position with clamping lever, RAL 7016 Height 78 mm

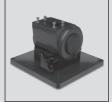
Order No. 1014100001



WS coupling 140

Same as 1014100001 but height 140 mm, **RAL 7016**

Order No. 1014100002



WS turn / tilt coupling

Angle of rotation 300° with stop. infinitely variable tilt from 0 to 30°, **RAI 7016**

Order No. 1016329000



Base coupling

Angle of rotation 300° with stop RAL 7035 Order No. 1015167000

RAL 7016

Order No. 1015343000



Tilt base coupling

Angle of rotation 300° with stop, fixed inclination of 15°

RAL 7035

Order No. 1015168000

RAL 7016

Order No. 1015344000

Highly effective heat dissipation

The more powerful the computer, the more heat it produces. The risk of overheating rises exponentially in configurations where the electronics are completely enclosed. To effectively prevent heat failure of sensitive components, the control enclosure and bottom cabinet can be equipped with various systems for both passive and active heat dissipation.

In order to create the most favourable prerequisites for heat transfer, great importance was attached to passive heat dissipation when designing the BERNSTEIN WS-6000 industrial workstation.

The range of accessories for the WS-6000 features many well-proven options specifically designed for thermal management in the bottom cabinet. The majority of heat build-up problems can be easily solved with filter fans fitted in the enclosure.

The fans can be thermostatically controlled or speed-regulated to ensure increased reliability and longer service life. High-performance mini climate control units are the first choice for applications where fans cannot provide sufficient cooling capacity or should not be used.

The single-wall configuration gives the aluminium section particularly good passive heat dissipation properties while conforming to protection class IP 65. In many cases, therefore, there is no need to use active coolers. To meet increased heat dissipation requirements, it is possible to use internal (not outward blowing), low-wear and maintenance-free fans.

Thermal management is an important subject that should not be left to chance. Our technicians would be pleased to advise you on the most effective solution to the specific cooling requirements of your application.

















Extremely sturdy bottom cabinets

The bottom cabinet is the load-bearing base of an industrial workstation. Stability and torsional rigidity are the decisive factors that govern the mechanical integrity of the overall construction. BERNSTEIN therefore uses only the highest quality materials as well as a sturdy frame structure for the cabinet body and door of the WS-6000 workstation.

Accordingly, the body of the bottom cabinet is made from solid, 2 mm thick, welded steel side panels. Together with the frame sections, this structure ensures maximum stability. The stability is further enhanced by the base guide rails and the reinforcements in the top section. Two internal reinforcement elements are additionally used for the sheet steel worktop.

The WS-6000 workstation has a static load bearing capacity of up to 150 kg. The door structure with maintenance-free 4-point bar lock and 180° opening angle (rear door 120° opening angle) provides unobstructed access.

However, it is not only the mechanical qualities of the WS-6000 bottom cabinet that are of an exceptionally high standard, but, in addition to the IP 55 protection rating, the efficient EMC protection and the numerous equipotential bonding options via earthing connections also contribute to the effective protection of the sensitive electronics.

Thanks to its uncompromising longterm quality, the WS-6000 workstation is predestined for use in harsh industrial environments and offers the ideal prerequisites for individually configuring workstations to your specifications. For this purpose, the comprehensive BERNSTEIN range of accessories includes everything you will need to optically configure the inside of the WS-6000 cabinet:

mounting plates, mounting rail systems, installation frames, various rear panel / door solutions, holders for circuit diagram, etc. The appealing appearance of the cabinet is further enhanced by coloured design elements on the door and inspection door. Find out more. We would be pleased to show you what's possible with the WS-6000.





Instead of a closed sheet steel door, a door with a safety glass inspection window is also available, featuring design trim panels on the door and inspection window. The rear panel can also be designed as a door.



The WS-6000 is available with a fixed base or on castors.





Open for your applications: Thanks to a comprehensive range of accessories, the WS-6000 can be perfectly adapted to your requirements.









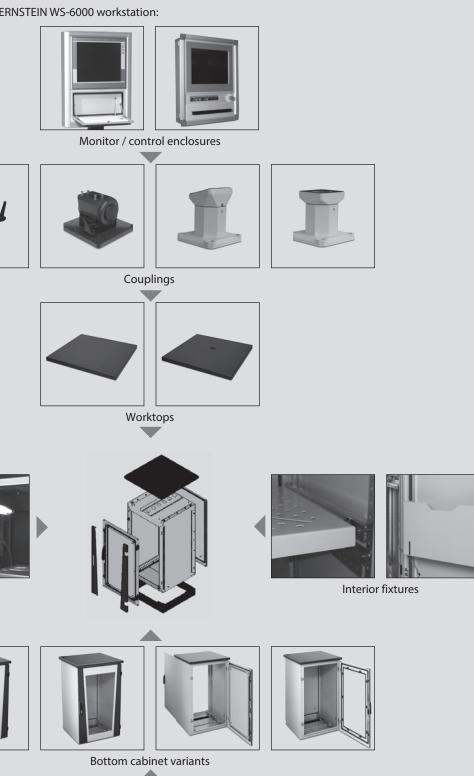
The interior of the WS-6000 bottom cabinet can be customised for any application. Interior lighting, fixed shelves and circuit diagram holders are just a few examples.

Industrial Workstation WS-6000

Endless possibilities

Interior fixtures

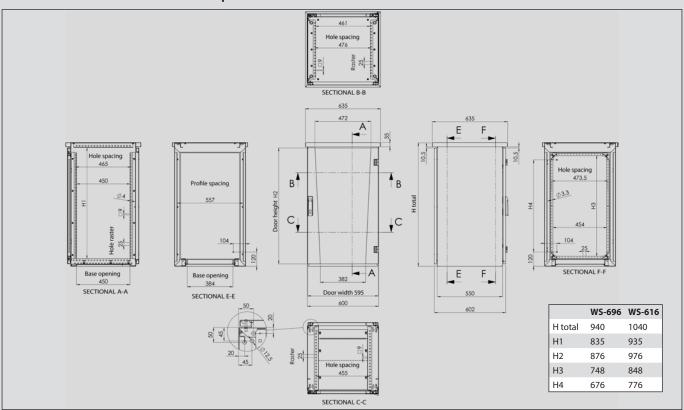
How to put together your individual BERNSTEIN WS-6000 workstation:



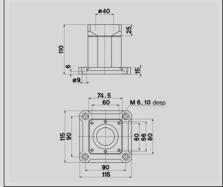
Base variants



Bottom cabinets with sheet metal worktop

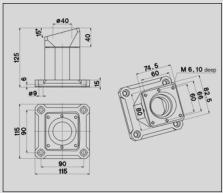


Couplings



Base coupling

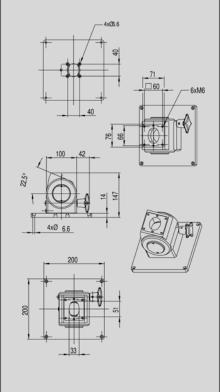
Article number: 1015167000



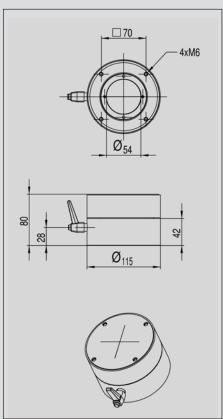
Tilt base coupling Article number: 1015168000



Turn / tilt coupling



Article number: 1016329000



Rotary coupling

Article number: 1014100001

Selection criteria for suspension systems

Mechanical load

Different types of suspension systems can support different loads. The most important parameter when determining the right type of suspension system is the mechanical load in the respective application, which consists of the suspended enclosure with its built in components and the length of the extension arm.

After determining the suspended weight and the length of the extension arm in the suspension system, the overview opposite will help you select the right system.

Please note that when using a turn / tilt coupling for mounting the enclosure at the end of the suspension system, the enclosure itself should not exceed a load of 300 N.

Calculation of force F (system load) as a function of enclosure weight m:

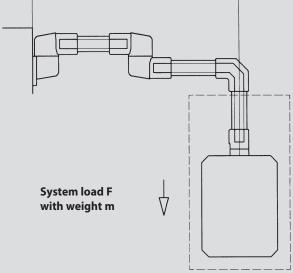
 $F(N) = m(kg) \times g(ms^{-2})$

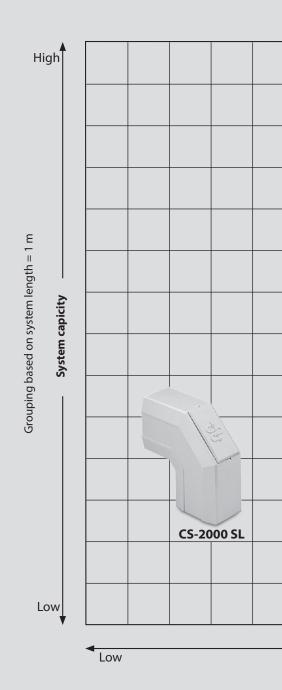
System load F = enclosure weight m multiplied by acceleration due to gravity

 $F(N) = m(kg) \times 9,81 (ms^{-2})$

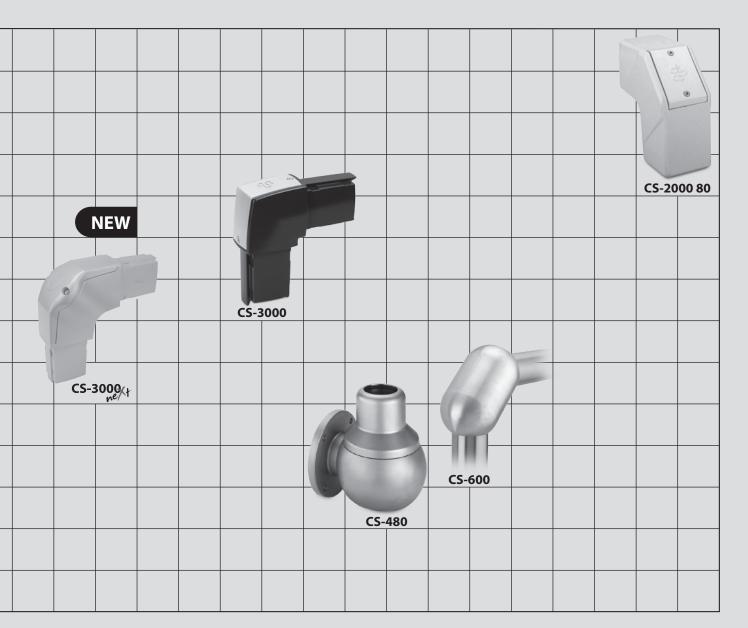
The illustration opposite shows an overview of the various suspension systems. You will find more detailed information on the exact loads of the individual systems in the following sections.

Extension arm length I









Performance

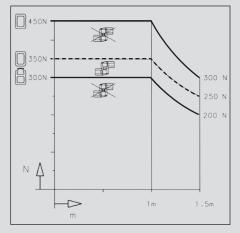
High

- Configuration options
- Mechanical stability
- Resistance

The CS-2000 SL light-duty suspension system is specially designed for accepting small, lightweight control enclosures and features short extension arms. In addition to the components in light grey RAL 7035, a new version in white aluminium RAL 9006 is now available that elegantly complements our CC-3000, CC-4000 / CC-4000 SL and CC-5000 neXt control enclosures (see page 72 onwards).

System structure

Individual components of the suspension system are combined with an optionally closed or partially open aluminium connection section to achieve the required configuration in accordance with the load diagram (with the exception of panel couplings).



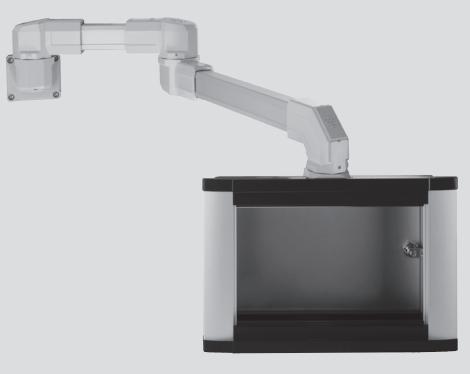
Load diagram

The above diagram shows the load bearing capacity of the CS-2000 SL range of suspension systems (with the exception of panel couplings).

The load bearing capacity of the system changes depending on the type of connecting section used (partially open or closed) or whether an intermediate joint is used.

The following safety factor generally applies: With an additional load of 75 kg, the suspension system can be subjected to load for 5 seconds without plastic deformation occurring.

The overview on pages 110 / 111 is designed to help you determine the load bearing capacity of all BERNSTEIN suspension systems.



CS-2000 SL Standard RAL 7035 light grey or RAL 9006 white aluminium

Materials

- Components: cast aluminium
- Installation opening: POM
- Bearing: POM
- Seals: CR
- Extruded aluminium connecting section
- Connecting section covers on open section: EPDM

Colours

- Suspension system components: light grey RAL 7035 alternatively: white aluminium RAL 9006
- Connecting section: silver (natural) anodised

System features

Installation opening at all joints

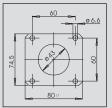
- Optionally closed or open connecting section can be used
- Clear passage opening in closed system: Ø 40 mm = 12.5 cm² at narrowest point (bearing opening)
- Clear passage opening in partially open system:
 - 2.76 cm² at narrowest point (entry of section in components)
 - 7.40 cm² in closed tube
- Easily retrofitable swivel angle limitation on couplings and joints
- Couplings have a small narrow flange for mounting on very narrow enclosures
- Overhead installation of all components possible
- Modern industrial design
- Protection class IP 65 (closed aluminium connection section)

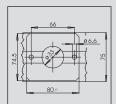
BERNSTEIN

Enclosure preparation for mounting couplings

The geometry of the flange on the straight coupling and on the elbow coupling makes it possible to mount even extremely narrow enclosures. Two centrally arranged threads, with which the coupling is secured to narrow enclosures, are additionally provided for this purpose.

However, the coupling is mounted as standard by means of the four outer flange mounting threads, compatible and interchangeable with the flange mounting pattern of the CS-3000 suspension system. With a diameter of 43 mm, the hole for the cable leadthrough is adapted to the narrowest point in the suspension system (a minimum diameter of 40 mm is available in the bearing opening in the components).







Straight coupling Article number 1015163000 1015328000



Tilt elbow coupling

Article number 1015166000 1015331000

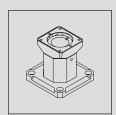


Elbow coupling Article number 1015165000 1015329000

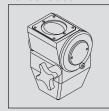


Tilt base coupling

Article number 1015168000 1015344000



Base coupling Article number 1015167000 1015343000



Turn / tilt coupling

Article number 1015169000 1015332000



Tilt coupling Article number 1015164000 1015330000



Turn / tilt elbow couplin Article number 1015170000 1015333000

Machining mounting surfaces for suspension systems

The various elements of the suspension systems can be mounted on walls or floors as well as on or at machines and systems. The corresponding machining drawings for the individual components of the suspension system are shown here.



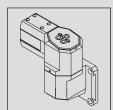
Base coupling

Article number 1015167000 1015343000



Tilt base coupling

Article number 1015168000 1015344000

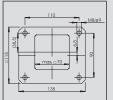


Wall joint, horizontal outlet

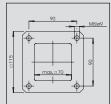
Article number 1015176000 1015339000



Wall joint, vertical outlet Article number 1015177000 1015338000



Wall joints



Base and top joint components



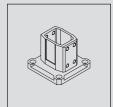
Rotary base

Article number 1015178000 1015341000



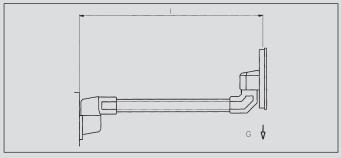
Top joint

Article number 1015175000 1015340000



Base / wall flange

Article number 1015179000 1015342000



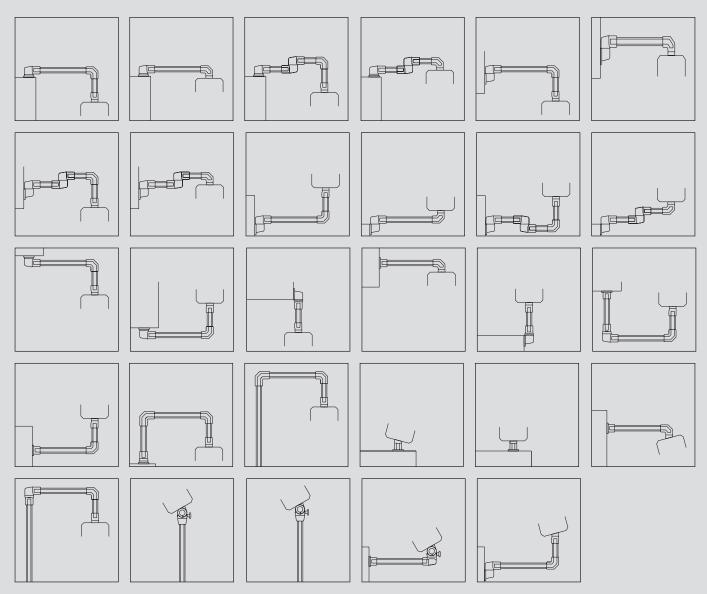
Load, panel components Drawing for preparing enclosure rear panel for attaching panel couplings

Max. load G 250 N Max. System length L 1500 mm

System combinations

Mechanical properties

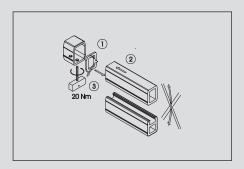
The large number of components and different versions of the connecting sections enable many different combinations. A selection of the possible configuration is shown below



Connecting Section CS-2000 SL 45 / 60

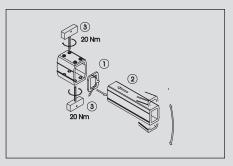


Assembling the connecting sections



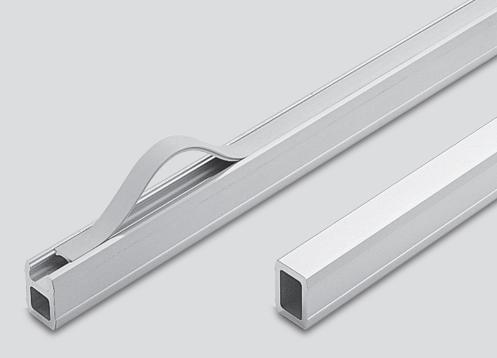
[A] Open or closed section in straight coupling and elbow coupling:
Adhere seal to connecting section (1), fit connecting section in suspension

system component (2, 3).



[B] Closed section in suspension system components with eight mounting screws:

Adhere seal to connecting section (1), fit connecting section in suspension system component (2, 3) while adjusting the section.



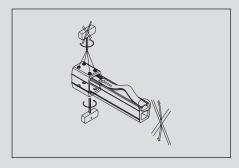
Connecting sections

The connecting section is a drawn aluminium AIMgSi 0.5 bar.

The surface is anodised and therefore corresponds to a colour similar to RAL 9006.

The connecting section can be used both in open as well as in completely closed cable ducts. The partly open section has an EPDM cover, coloured similar to RAL 7042.

This flexible plastic cover can be easily withdrawn and reinserted.

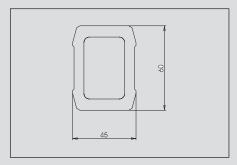


[C] Open section in suspension system components with eight mounting screws: Adhere seal to connecting section, fit connecting section in suspension system component, only fit the four mounting screws on the closed part of the tubing, install cover seal.

| Open section | |
|-----------------|----------------|
| Dimensions (mm) | Article number |
| 45 x 60 x 250 | 9524001000 |
| 45 x 60 x 500 | 9524002000 |
| 45 x 60 x 750 | 9524003000 |
| 45 x 60 x 1000 | 9524004000 |
| 45 x 60 x 1250 | 9524005000 |
| 45 x 60 x 1500 | 9524006000 |
| 45 x 60 x 2000 | 9524008000 |

| 7 | |
|----------|--|
| * | |

| Closed section | |
|-----------------|----------------|
| Dimensions (mm) | Article number |
| 45 x 60 x 250 | 9524301000 |
| 45 x 60 x 500 | 9524302000 |
| 45 x 60 x 750 | 9524303000 |
| 45 x 60 x 1000 | 9524304000 |
| 45 x 60 x 1250 | 9524305000 |
| 45 x 60 x 1500 | 9524306000 |
| 45 x 60 x 2000 | 9524308000 |



You will find an aid for selecting the load bearing capacity on pages 110 / 111.

| Article | Straight coupling CS-2000 SL | | Elbow coupling CS-2000 SL | |
|-------------------------|------------------------------|---|---------------------------|---|
| Article number (colour) | 1015163000 1015369000 | RAL 7035 light grey RAL 9006 white aluminium | 1015165000 1015370000 | RAL 7035 light grey RAL 9006 white aluminium |
| | | | | |





| Details | Angle of rotation 300° with stop. Complete with installation materi | al and seals | Installation opening with snap Angle of rotation 300° with sto Complete with installation ma | op. |
|---|--|--------------|--|-------------|
| Weight in g | 740 | | 960 | |
| Material | Aluminium | | Aluminium | |
| | | | | |
| Accessories (retrofitable) | Swivel angle limiter | 9805129000 | Swivel angle limiter | 9805129000 |
| Application example | | | | |
| | | | | |
| Dimensions in mm | 74.5 60 M 6 | 5,10 deep | 74.5 | M 6,10 deep |
| CAD files available at www.bernstein.eu | 70 | | 50 43 | 2 |
| | 78 | | 50 43 | 981 |
| | 60 60 74 | | 88 4 | 4 |



Turn / tilt coupling CS-2000 SL

1015169000 RAL 7035 light grey RAL 9006 white aluminium

Turn / tilt elbow coupling CS-2000 SL

1015170000 RAL 7035 light grey RAL 9006 white aluminium

Tilt coupling CS-2000 SL

1015164000 RAL 7035 light grey **1015373000** RAL 9006 white aluminium







Angle of rotation 300° with stop. Infinitely variable inclination from 0 to 30°. Complete with installation material and seals. Enclosure max. 300 N $\,$

Angle of rotation 300° with stop. Infinitely variable inclination from 0 to 30°. Complete with installation material and seals. Enclosure max. 300 N $\,$

Tilt angle 15°. Angle of rotation 300° with stop. Complete with installation material and seals

| 3000 | |
|----------|--|
| Aluminiu | |

Swivel angle limiter

| uminium | Aluminium |
|---------|-----------|
| | |

9805130000

| 300 | | | |
|-----|--|--|--|

Swivel angle limiter

3.

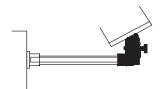
1100 Aluminium

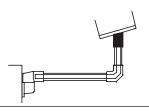
Swivel angle limiter

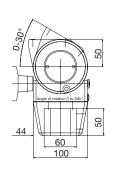
9805129000

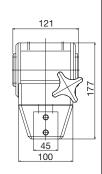
M 6,10 deep

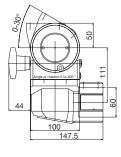


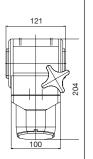




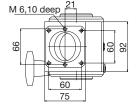


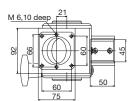






9805130000









Article

Article number (colour)

Tilt elbow coupling CS-2000 SL

1015166000 RAL 7035 light grey RAL 9006 white aluminium

Base coupling CS-2000 SL

1015167000 RAL 7035 light grey **1015375000** RAL 9006 white aluminium





Details

Tilt angle 15°. Installation opening with snap-on plastic cover. Angle of rotation 300° with stop. Complete with installation material and seals

Integrated component. Angle of rotation 300° with stop. Complete with installation material for enclosure and seals

Weight in g Material

Accessories (retrofitable)

1400

Aluminium

1180

Aluminium

(....

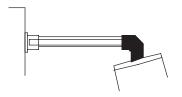
Swivel angle limiter

9805129000

Swivel angle limiter

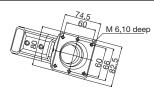
9805129000

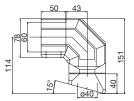
Application example

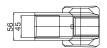


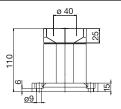


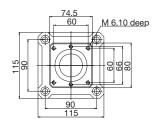
Dimensions in mm













Tilt base coupling CS-2000 SL

RAL 7035 light grey RAL 9006 white aluminium 1015168000 1015376000

Panel coupling

RAL 7035 light grey RAL 9006 white aluminium 1015232000 1015377000

Panel turn / tilt coupling S

RAL 7035 light grey RAL 9006 white aluminium 1015235000 1015378000







Integrated component. Angle of rotation 300° with stop. Fixed inclination of 15°. Complete with installation material for enclosure and seals

For rear connection of narrow and lightweight controller panels to the CS-2000 SL light-duty suspension system; the maximum load of this component is 250 N at a maximum system length of 1500 mm

For rear connection of narrow and lightweight controller panels to the CS-2000 SL light-duty suspension system; the maximum load of this component is 250 N at a maximum system length of 1500 mm

1200

3000 Aluminium Aluminium 3400

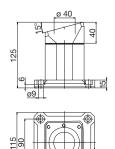
Aluminium

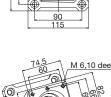
Swivel angle limiter 9805129000

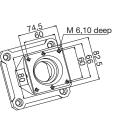


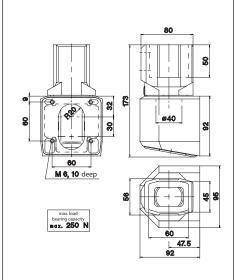


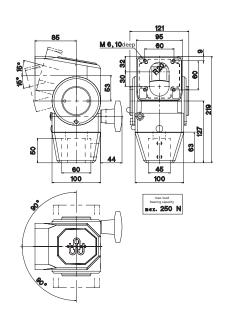












Article

Article number

(colour)

Panel elbow coupling

1015233000 1015379000 RAL 7035 light grey RAL 9006 white aluminium Panel tilt / turn elbow coupling W

1015236000 1015380000 RAL 7035 light grey RAL 9006 white aluminium





Details

For rear connection of narrow and lightweight controller panels to the CS-2000 SL light-duty suspension system; the maximum load of this component is 250 N at a maximum system length of 1500 mm

For rear connection of narrow and lightweight controller panels to the CS-2000 SL light-duty suspension system; the maximum load of this component is 250 N at a maximum system length of 1500 mm

Weight in g

Material

3000

Aluminium

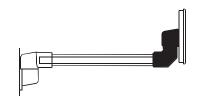
3460

Aluminium

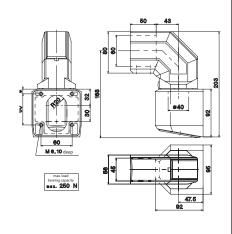
Application example

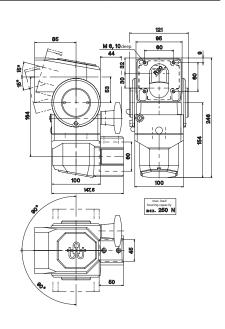
Accessories (retrofitable)





Dimensions in mm







Plug-on joint CS-2000 SL

Elbow CS-2000 SL Elbow for torque load CS-2000 SL

 1015171000
 RAL 7035 light grey
 1015172000
 RAL 7035 light grey
 1015173000
 RAL 7035 light grey

 1015381000
 RAL 9006 white aluminium
 1015382000
 RAL 9006 white aluminium
 1015383000
 RAL 9006 white aluminium



56





| Installation opening with snap-on plastic cover. Complete with seals | Increased wall strength. Adjustment facility. Installation opening with snap-on plastic cover. Complete with seals | Swivel angle 300° with stop. Installation opening with snap-on plastic cover. Complete with seals |
|--|--|--|
| 590 | 1000 | 1850 |
| Aluminium | Aluminium | Aluminium |
| | | Swivel angle limiter 9805132000 |
| | | |
| | | |
| | | |
| 50 43 08 78 | 75 43 | 95 82 60 95 82 60 20 20 20 20 20 20 20 20 20 20 20 20 20 |
| 45 | 45 Φ Φ | 95 60 45 45 49 90 |

Article

Article number (colour)

Intermediate joint CS-2000 SL

1015174000 RAL 7035 light grey **1015384000** RAL 9006 white aluminium

Top joint CS-2000 SL

1015175000 RAL 7035 light grey **1015385000** RAL 9006 white aluminium





Details

Swivel angle 360° with limit stop. Installation openings both ends. Adjustment facility. Complete with seals Swivel angle 300° with stop. Adjustment facility. Installation opening with snap-on plastic cover. Complete with seals

Weight in g

Material

2130

Aluminium

1720

Aluminium

Accessories (retrofitable)

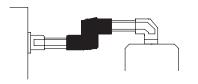
Swivel angle limiter

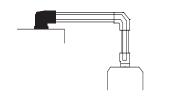
9805132000

Swivel angle limiter

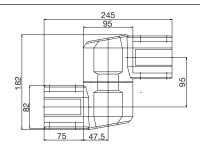
9805132000

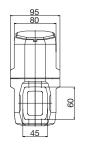
Application example

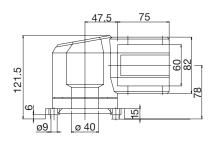


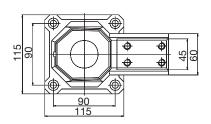


Dimensions in mm











Wall joint, vertical outlet CS-2000 SL Wall joint, horizontal outlet CS-2000 SL

Base, rotary CS-2000 SL

1015178000 RAL 7035 light grey RAL 9006 white aluminium







Swivel angle 300° with stop. Adjustment facility. Installation opening with snap-on plastic cover. Complete with seals

Swivel angle 300° with stop. Adjustment facility. Installation opening with snap-on plastic cover. Complete with seals

Angle of rotation 300° with stop Adjustment facility. Complete with seals

1840 Aluminium

Swivel angle limiter

1015177000 1015386000

2090

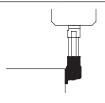
1460 Aluminium

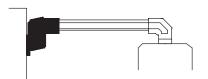
Aluminium Aluminium Aluminium

Swivel angle limiter

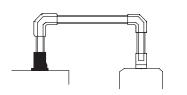
9805132000

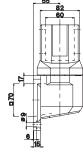
Swivel angle limiter 9805132000

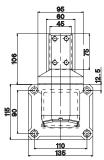


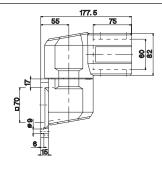


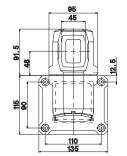
9805132000

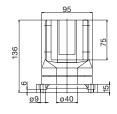


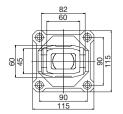












Article

Article number

(colour)

Base, wall flange CS-2000 SL

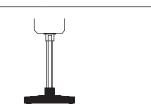
1015179000 1015389000 RAL 7035 light grey RAL 9006 white aluminium Free-standing base CS-2000 SL

1015180000 1015390000 RAL 7035 light grey RAL 9006 white aluminium



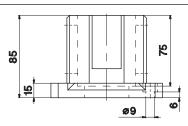


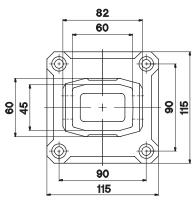
| Details | Adjustment facility. Complete with seals | Base for free-standing applications |
|----------------------------|--|-------------------------------------|
| Weight in g | 690 | 11820 |
| Material | Aluminium | Aluminium |
| | | |
| Accessories (retrofitable) | | |
| | | |
| | | |
| | | |

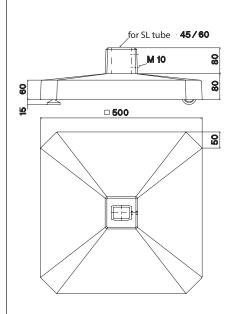


Application example

Dimensions in mm



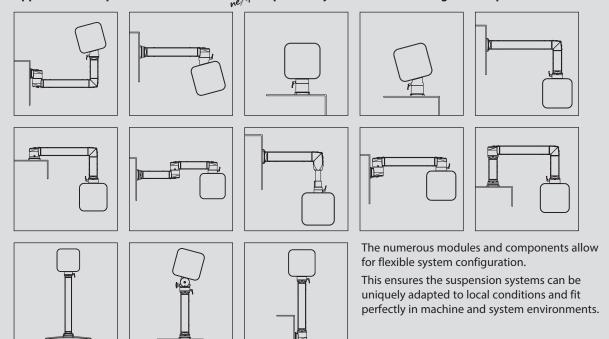








Application examples for CS-3000 / CS-3000/x suspension system – Versatile configuration options



Suspension System CS-3000 Family

Flexible and efficient: The BERNSTEIN CS-3000

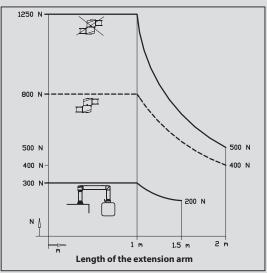
In the main, system constructors expect modern suspension systems to feature variable configuration, progressive design and complete ease installation.

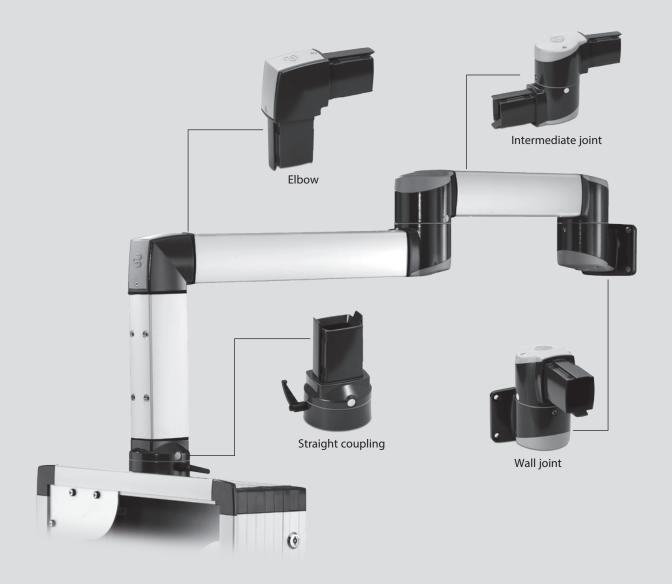
BERNSTEIN sets standards with the CS-3000:

Modern industrial design, well-conceived ergonomics! The combinable components create an innovative system solution based on modular principles for attaching enclosures, especially the BERNSTEIN CC-3000, CC-4000, CC-4000 SL and CC-5000 neXt

enclosures (see page 72 onwards), to machines and systems. The particular ease of assembly and installation of the CS-3000 is reflected in substantial time savings and cost efficiency.

Load diagram for static load capacity CS-3000







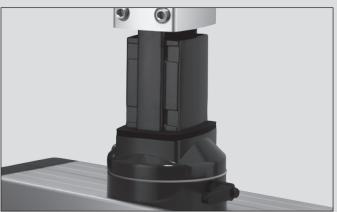
In addition to the positively locking tube mounting screws other features include:

- Six-fold form-fit thanks to component contour in tube attachment area (the otherwise optional safety hole additionally required for overhead installation is rendered unnecessary)
- One-man installation of the complete system
- Infinitely variable system alignment by means of tube mounting screws
- Subsequent alignment at any time without dismantling the complete system
- Cable and installation openings at all joints in the system
- Different tube lengths for variable configuration
- Tube machined at one end can be cut to required length (machining templates supplied)
- Adjustable torque

Fine adjustment of firmness by means of clamping lever or screw



Intelligent design with smooth flowing transition lines for ease of cleaning



Six-fold form-fit thanks to component contour in tube attachment area



Effortless readjustment possible at any time without the need to dismantle the complete system

Other system features:

- Anodises aluminium tubes for long service life and reliable operation
- Smooth flowing transition lines from the tube to other components prevent dirt built-up (easy to clean)
- Coated tube mounting screws for sealing threaded holes and secure screw connections
- Elegant appearance with narrow sections connected by adapting the cross section from square to round tube
- Modular coupling configurations possible (also subsequently),
 e.g. with adapter for narrow enclosures or tilt adapter
- Well-conceived ergonomics for easy and virtually fatigue-free operation
- An ideal single-source solution for BERNSTEIN control enclosures
- Protection class IP 65

The new BERNSTEIN Aluminium Suspension System

The CS-3000 neXt combines functionality with an appealing design. The new system is an important addition to the CS-3000 series, it is easy to clean and benefits from simplified installation, outstanding visual characteristics such as smooth transitions between tube and component and the high quality which BERNSTEIN is known for. The wide range of components, the high strength of the system and the load capacity provide individual solutions.

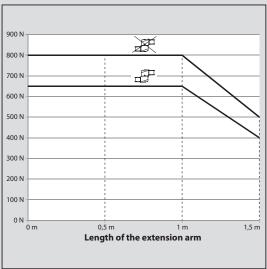
Standard colouring:

Components finished to RAL 9006 white aluminium or RAL 7016 anthracite grey

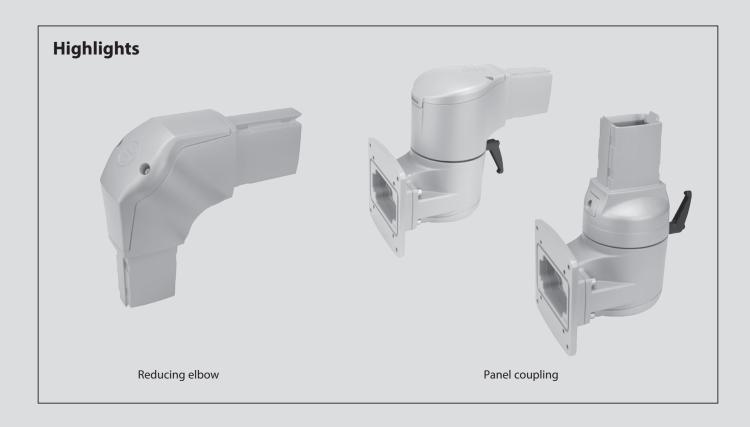
Connection section: Natural anodised finish

Components (incl. caps) and connection sections can be optionally special-coated to a wide variety of RAL colours.

Load diagram for static load capacity CS-3000 neXt









| CS-3000 neXt Aluminium connection section | | | |
|--|---|--------------------------------------|---------------------|
| | Standard lengths (available from stock) | Article number | Tube cross sections |
| | Length 55 x 75 x 250 mm | 9524700001 | \$ |
| 4 | Length 55 x 75 x 500 mm | 9524700002 | |
| | Length 55 x 75 x 750 mm | 9524700003 | |
| | Length 55 x 75 x 1000 mm | 9524700004 | |
| | Length 55 x 75 x 1250 mm | 9524700005 | |
| | Length 55 x 75 x 1500 mm | 9524700006 | |
| | | | |
| | | | 28 |
| | | | 55 |
| CS-3000 Aluminium connection section | | | |
| | Length 70 x 90 x 250 mm | 9524500001 | |
| | Length 70 x 90 x 500 mm | 9524500002 | |
| | Length 70 x 90 x 750 mm | 9524500003 | |
| | Length 70 x 90 x 1000 mm | 9524500004 | |
| | Length 70 x 90 x 1250 mm | 9524500005 | |
| | Length 70 x 90 x 1500 mm | 9524500006 | 3 8 |
| | Length 70 x 90 x 1750 mm | 9524500007 | |
| | Length 70 x 90 x 2000 mm | 9524500008 | |
| | Tubes machined at one end (machining templates supplied, available from stoc | 40 | 36 |
| | Length 70 x 90 x 1000 mm | 9524500009 | 70 |
| | Length 70 x 90 x 2000 mm | 9524500010 | |
| 5 | If one of our standard lengths does not suit your re | | machined at one end |
| | Simply shorten to the required length and use the | | |
| | Machined tubes to required lengths | | |
| | We can also supply completely machined | <u>-</u> | |
| | tubes to the length you require (price and delivery time on request). | Expres | s Service |
| | Or use our Express Service. | | |
| Round aluminium tubing | | | |
| Round aluminium tubes in different lengths. We (prices and delivery time on request) | e can also supply completely machined tubes to the | e length you require. | |
| | Length 48 x 4 x 250 mm | 9521400000 | 1 -{{}} |
| | Length 48 x 4 x 500 mm | 9521401000 | |
| | Length 48 x 4 x 750 mm | 9521402000 | |
| | Length 48 x 4 x 1000 mm | 9521403000 | Ø40 |
| CS-3000 Bent Tube | | | |
| | To see more info | ormation about the be on page 149 | ent tube |

(colour)

Article

Article number

Adapter (narrow section)

1017300001 RAL 9006 white aluminium **1017300016** RAL 7016 anthracite grey

Straight coupling

1017300002 RAL 9006 white aluminium **1017300017** RAL 7016 anthracite grey





Details

Only to be used together with couplings. (for attachment to narrow BERNSTEIN enclosure sections with depths <120 mm) Angle of rotation 300° with stop. **Adapter (narrow section)** is required for attachment to sections < 120 mm

Weight in g

Material

300 Aluminium 1630

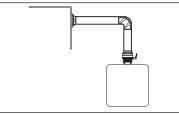
Aluminium

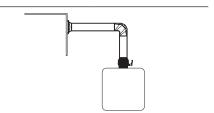
Swivel angle limiter

9806906000

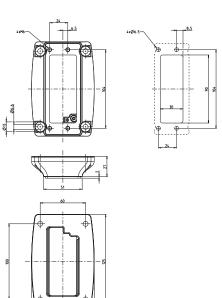
Accessories (retrofitable)

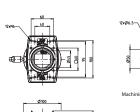
Application example

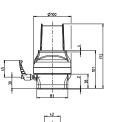




Dimensions in mm











 Elbow coupling
 Panel coupling S
 Panel coupling W

 1017300003
 RAL 9006 white aluminium 1017300018
 1017300004 RAL 7016 anthracite grey
 RAL 9006 white aluminium RAL 7016 anthracite grey
 1017300020
 RAL 7016 anthracite grey







| Angle of rotation 300° with stop, screw-fit installation opening | | For attachments to the rear of panels / displays or control enclosures with screw-fit rear panel. Standard hole pattern VESA 75/100 Angle of rotation 300° with stop, | | For attachments to the rear of panels / displays or control enclosures with screw-fit rear panel. Standard hole pattern VESA 75/100 Angle of rotation 300° with stop, screw-fit installation opening | |
|--|---|---|------------|--|--|
| | | screw-fit installation opening | | | |
| 2070 Aluminium | | 2530 Aluminium | | 2970 Aluminium | |
| | | | | | |
| Swivel angle limiter | 9806906000 | Swivel angle limiter | 9806906000 | Swivel angle limiter | 9806906000 |
| | | | | | |
| | | | | | |
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| | | | | | |
| г | 60 | | 7 | | 195 |
| | -12 aM6 | | | 28 | 74 |
| a × a a ⊕ ⊕ ⊕ | | | 536 | | |
| | | | | | |
| | 195 | | _ | | |
| | 74 <u>5 </u> | 90 | FTA . | | |
| | | B | 9105.2 | | |
| | | | | - | 90 235 |
| | 7 8 | | | | ha |
| | 83 | 42 | | | |
| Ø100 | 60 | | 28. | | 8xM5/Ø5.5— |
| - 28 | 12xØ6.5— | 81M5/Ø5.5- | 120 | 8xØ5.2 | |
| | *************************************** | | | | 3 + |
| | | | | | |
| 125 | **** | * | | 28 | Machining drawing for mounting surface |
| <u> </u> | Machining drawing for mounting surfaces | Machining drawing for mounting surfa | ces | 120 | |
| | | 1 | | 1 | |

(colour)

Article

Article number

Elbow, rotary

 1017300007
 RAL 9006 white aluminium
 1017300008
 RAL 9006 white aluminium

 1017300022
 RAL 7016 anthracite grey
 1017300023
 RAL 7016 anthracite grey





Details

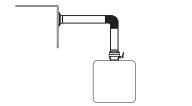
Screw-fit installation opening

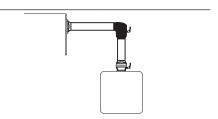
Angle of rotation 300° with stop,
screw-fit installation opening

Weight in g12502320MaterialAluminiumAluminium

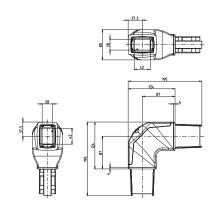
Accessories (retrofitable) Swivel angle limiter 9806906000

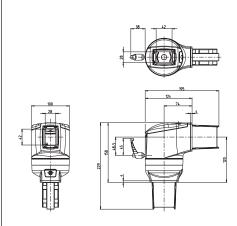
Application example _____





Dimensions in mm







| Reducing elbow | | Intermediate joint | | Top joint | |
|----------------|--------------------------|--------------------|--------------------------|------------|--------------------------|
| 1017300009 | RAL 9006 white aluminium | 1017300010 | RAL 9006 white aluminium | 1017300014 | RAL 9006 white aluminium |
| 1017300024 | RAL 7016 anthracite grey | 1017300025 | RAL 7016 anthracite grey | 1017300029 | RAL 7016 anthracite grey |







| Elbow coupling for combining CS-3000 neXt with the CS-3000 suspension systems, screw-fit installation opening | Angle of rotation 300° with s 2 screw-fit installation openi | top, ngs | Angle of rotation 300° with sto screw-fit installation opening | 0, |
|---|---|--------------------------------|---|--|
| 1770 Aluminium | 2740 Aluminium | | 2200 Aluminium | |
| | Swivel angle limiter | 9806906000 | Swivel angle limiter | 9806906000 |
| | | | | |
| | | | | |
| 227 229 38 8 8 | | 955 545 74 4 9 900 | 78 198 198 1945 195 195 195 195 195 195 195 19 | Machining drawing for mounting surface |

Article

Article number (colour) Wall joint S

1017300011 1017300026

RAL 9006 white aluminium RAL 7016 anthracite grey

Wall joint W

1017300012 1017300027

RAL 9006 white aluminium RAL 7016 anthracite grey





Details

Angle of rotation 300° with stop, screw-fit installation opening

Angle of rotation 300° with stop, 2 screw-fit installation openings

Weight in g

Material

2490 Aluminium

Aluminium

Accessories (retrofitable)

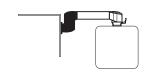
Swivel angle limiter

9806906000 Swivel angle limiter

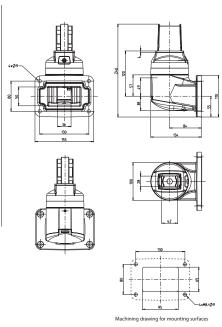
9806906000

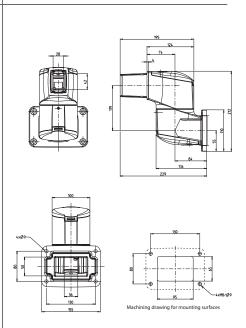
Application example





Dimensions in mm







| Base / wall flange | | Base, rotary | |
|--------------------|--------------------------|--------------|--------------------------|
| 1017300015 | RAL 9006 white aluminium | 1017300013 | RAL 9006 white aluminium |
| 1017300030 | RAL 7016 anthracite grey | 1017300028 | RAL 7016 anthracite grey |





| | Angle of rotation 300° with stop | |
|---|---|--|
| | | |
| 830 Aluminium | 1770 Aluminium | |
| | Swivel angle limiter 9806906000 | |
| | | |
| Machining drawing for mounting surfaces | Machining drawing for mounting surfaces | |
| | | |

Article

Article number (colour)

Straight coupling

1015300177 RAL 9006 white aluminium **1015300001** RAL 7016 anthracite grey

Elbow coupling

1015300178 RAL 9006 white aluminium **1015300002** RAL 7016 anthracite grey





Details

Angle of rotation 300° with stop. **Adapter (narrow section)** is required for attachment to sections < 120 mm, see page 148

RAL 9006 1015300209 RAL 7016 1015300011 Angle of rotation 300° with stop, installation opening including screw-fit plastic cover

R/

Aluminium

2070

Aluminium

Weight in g Material

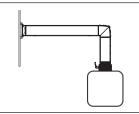
Accessories (retrofitable)

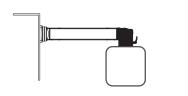
Swivel angle limiter

9805296000 Swivel angle limiter

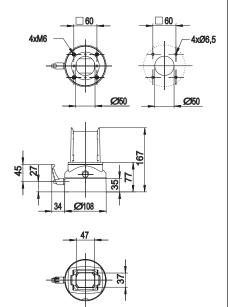
9805296000

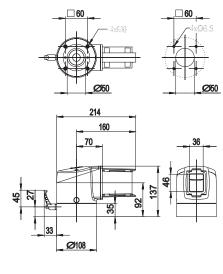
Application example





Dimensions in mm







Tilt coupling 15° A

1015300179 RAL 9006 white aluminium **1015300013** RAL 7016 anthracite grey

Tilt coupling 15° B

1015300180 RAL 9006 white aluminium **1015300014** RAL 7016 anthracite grey

Tilt elbow coupling 15° A

1015300181 RAL 9006 white aluminium **1015300015** RAL 7016 anthracite grey







Angle of rotation 300° with stop, fixed tilt of 15° (variant A tilted back)

Angle of rotation 300° with stop, fixed tilt of 15° (variant B tilted forward)

Angle of rotation 300° with stop, fixed tilt of 15°, installation opening including screw-fit plastic cover (variant A tilted back)

1680 Aluminium

Swivel angle limiter

1680 Aluminium

Swivel angle limiter

9805296000

2160

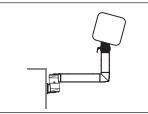
Swivel angle limiter

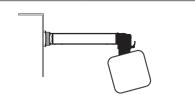
Aluminium

9805296000

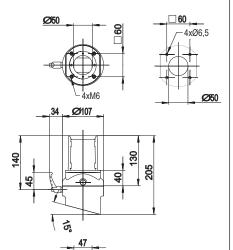
□ 60

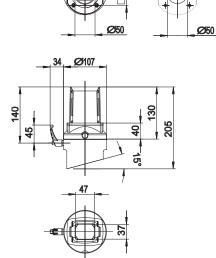
4xØ6,5

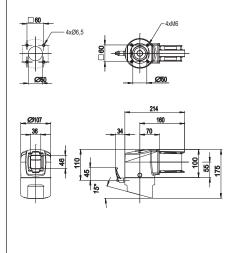




9805296000







(colour)

Article

Article number

Tilt elbow coupling 15° B

1015300182 1015300016 RAL 9006 white aluminium RAL 7016 anthracite grey Base coupling

1015300183 1015300017 RAL 9006 white aluminium RAL 7016 anthracite grey





Details

Angle of rotation 300° with stop, fixed tilt of 15°, installation opening including screw-fit plastic cover (variant B tilted forward)

Angle of rotation 300° with stop

Weight in g

Material

2160

Aluminium

2120

Aluminium

Accessories (retrofitable)

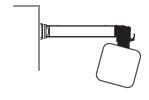
Swivel angle limiter

9805296000

Swivel angle limiter

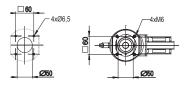
9805296000

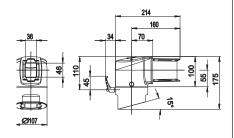
Application example

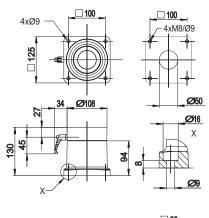


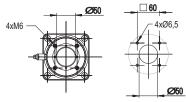


Dimensions in mm











Tilt base coupling 15° A

1015300184 RAL 9006 white aluminium **1015300018** RAL 7016 anthracite grey

Tilt base coupling 15° B

1015300185 RAL 9006 white aluminium **1015300019** RAL 7016 anthracite grey

Straight coupling 48

1013056000 RAL 9006 white aluminium **1013050000** RAL 7016 anthracite grey







Angle of rotation 300° with stop, fixed tilt of 15° (variant A tilted back)

Angle of rotation 300° with stop, fixed tilt of 15° (variant B tilted forward)

Angle of rotation 300° with stop, only compatible with 48 mm round tube, **adapter 9806520000** is required for attachment to 80 mm section

2340 Aluminium

Swivel angle limiter

2340

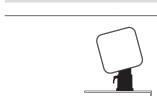
Swivel angle limiter

9805296000

1760 Aluminium

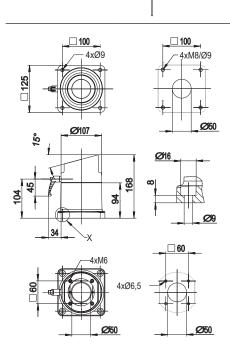
Aluminium Alum

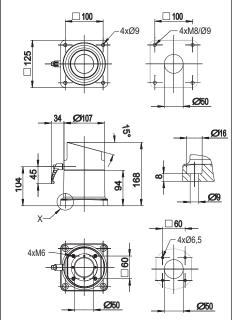
9805296000

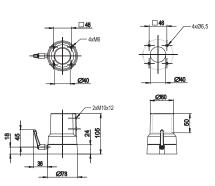












Article

Article number (colour)

Coupling for Siemens SIMATIC Pro®

1015300187 RAL 9006 white aluminium **1015300043** RAL 7016 anthracite grey

Elbow coupling for Siemens SIMATIC Pro®

1015300188 RAL 9006 white aluminium **1015300074** RAL 7016 anthracite grey





Details

Customised coupling for Siemens SIMATIC Pro®, angle of rotation 300° with stop

Customised coupling for Siemens SIMATIC Pro®, angle of rotation 300° with stop, installation opening including screw-fit plastic cover

Weight in g

Material

1580

Aluminium

2200

Aluminium

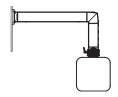
Accessories (retrofitable)

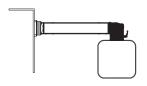
Swivel angle limiter

9805296000

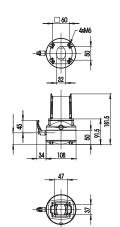
Swivel angle limiter 9805296000

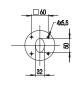
Application example

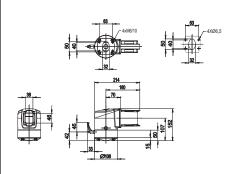




Dimensions in mm









Base coupling for Siemens SIMATIC Pro®

1015300189 RAL 9006 white aluminium RAL 7016 anthracite grey 1015300075

Tilt coupling 15° for Siemens SIMATIC Pro®

see details RAL 9006 white aluminium RAL 7016 anthracite grey see details

Tilt elbow coupling 15° for Siemens SIMATIC Pro®

see details RAL 9006 white aluminium RAL 7016 anthracite grey see details







| Customised | coupling for Siemens SIMATIC Pro®, | |
|---------------|------------------------------------|--|
| angle of rota | ation 300° with stop | |

Customised coupling for Siemens SIMATIC Pro®, angle of rotation 300° with stop, fixed tilt of 15° $\,$ (variant A tilted back, variant B tilted forward) RAL 9006: 1015300190 Type A, 1015300194 Type B RAL 7016: 1015300076 Type A, 1015300077 Type B Customised coupling for Siemens SIMATIC Pro®, angle of rotation 300° with stop, fixed tilt of 15°, installation opening including screw-fit plastic cover (variant A tilted back, variant B tilted forward)

RAL 9006: 1015300191 Type A, 1015300210 Type B RAL 7016: 1015300078 Type A, 1015300079 Type B

2250 Aluminium

Swivel angle limiter

1810 Aluminium

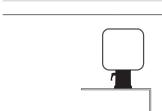
Swivel angle limiter

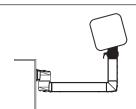
Aluminium

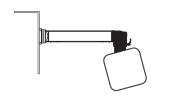
9805296000

2290

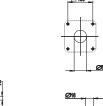
9805296000 Swivel angle limiter

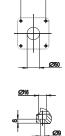




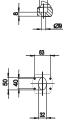


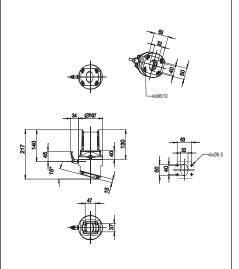


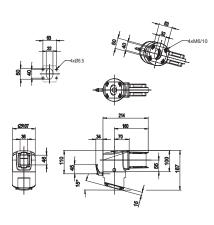




9805296000







(colour)

Article

Article number

Tilt base coupling 15° for Siemens SIMATIC Pro®

see details RAL 9006 white aluminium see details RAL 7016 anthracite grey

Tilt adapter (30° infinitely variable)

1015300193 RAL 9006 white aluminium **1015300012** RAL 7016 anthracite grey





Details

Customised coupling for Siemens SIMATIC Pro®, angle of rotation 300° with stop, fixed tilt of 15° (variant A tilted back, variant B tilted forward)
RAL 9006: 1015300192 Type A, 1015300211 Type B
RAL 7016: 1015300080 Type A, 1015300081 Type B

Used only together with couplings, infinitely variable tilt up to 30°, maximum load max. 300 N, **not compatible** with **1013050000**, as well as Siemens SIMATIC Pro® couplings

Weight in g Material

2470 Aluminium

1840 Aluminium

Accessories (retrofitable)

Swivel angle limiter

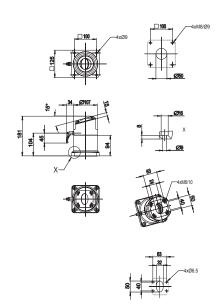
9805296000

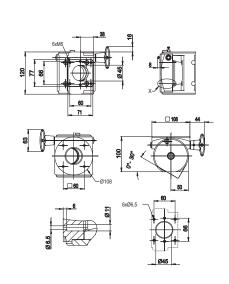
Application example





Dimensions in mm







Elbow, rotary Elbow, reduced RD 48

 1015300195
 RAL 9006 white aluminium
 1015300196
 RAL 9006 white aluminium
 1015300197
 RAL 9006 white aluminium

 1015300008
 RAL 7016 anthracite grey
 1015300009
 RAL 7016 anthracite grey
 1015300020
 RAL 7016 anthracite grey



70





| • | • | |
|---|--|--|
| With installation opening including screw-fit plastic cover | Angle of rotation 300° with stop, installation opening including screw-fit plastic cover | Reducer elbow from the square tube to 48 mm round tube |
| 1680 | 2460 | 1920 |
| Aluminium | Aluminium | Aluminium |
| | Swivel angle limiter 9805296000 | |
| | | |
| | | |
| | | |
| 195 | 214 160 70 SW5 | 195 150 |
| 37 | 36 | 37 60 02! 2xM12 |

Ø107

Article

Article number

(colour)

Top joint

1015300198 1015300003 RAL 9006 white aluminium RAL 7016 anthracite grey

Wall joint S

1015300199 1015300006 RAL 9006 white aluminium RAL 7016 anthracite grey





Details

Angle of rotation 300° with stop, installation opening including screw-fit plastic cover Angle of rotation 300° with stop, installation opening including screw-fit plastic cover

Weight in g

Material

Aluminium

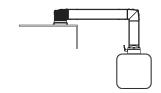
Aluminium

Accessories (retrofitable)

Swivel angle limiter 9805296000 Swivel angle limiter

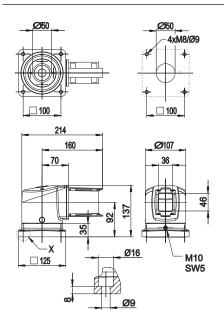
9805296000

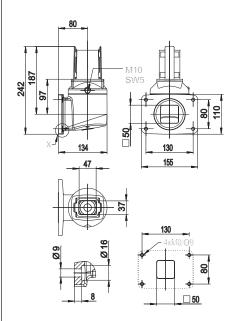
Application example





Dimensions in mm







Wall joint W

Intermediate joint

CS-3000 HV module, vertically adjustable

1015300200
RAL 9006 white aluminium
RAL 7016 anthracite grey
RAL 7016 anthracite grey

RAL 7016 anthracite grey
RAL 7016 anthracite grey

CS-3000 HV module, vertically adjustable

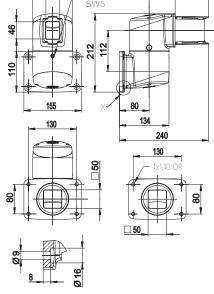
RAL 9006 white aluminium
RAL 9006 white aluminium
RAL 7016 anthracite grey
RAL 7016 anthracite grey

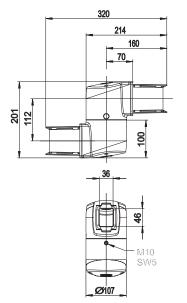






| Angle of rotation 300° with stop, 2 installation openings including screw-fit plastic covers | Angle of rotation 300° with stop, 2 installation openings including screw-fit plastic covers | RAL 9006 RAL 7016 Module 1000/100 1015300202 1015300022 Module 1000/150 1015300212 1015300029 Module 1000/200 1015300213 1015300031 Module 1000/300 1015300214 1015300033 Modular height 1000 mm; see page 150 for detailed information on selection of suitable damper force. |
|--|--|---|
| 2930 | 2940 | 7030 |
| Aluminium | Aluminium | Aluminium |
| Swivel angle limiter 9805296000 | Swivel angle limiter 9805296000 | |
| - | | |
| | | |
| - | | |
| | | |
| | | |
| 90107 160 36 M10 SW5 70 SW5 155 X 80 134 | 320 214 160 70 | |







Suspension System CS-3000

Article

Article number

(colour)

CS-3000 HV module, vertically adjustable

see details see details RAL 9006 white aluminium RAL 7016 / anodised aluminium

Base / wall flange

1015300204 1015300010 RAL 9006 white aluminium RAL 7016 anthracite grey





Details

Weight in g

Material

Modul 800/100 Modul 800/150 Modul 800/200 Modul 800/300

RAL 9006 RAL 7016 1015300203 1015300023 1015300215 1015300030 1015300216 1015300032 1015300217 1015300034 Modular height 800 mm; see page 150 for detailed

information on selection of suitable damper force.

6020

Aluminium

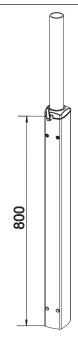
Aluminium

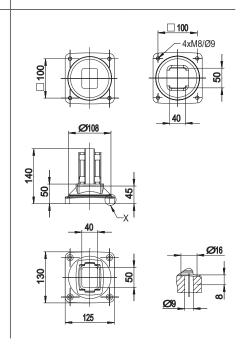
Accessories (retrofitable)

Application example

Dimensions in mm

CAD files available at www.bernstein.eu







Base, rotary

1015300205 RAL 9006 white aluminium **1015300005** RAL 7016 anthracite grey

Large free-standing base

1015300206 RAL 9006 white aluminium **1015300027** RAL 7016 anthracite grey

Small free-standing base

1015300207 RAL 9006 white aluminium **1015300028** RAL 7016 anthracite grey







| Angle of rotation 300° with stop | | |
|--|---------------------------------------|---------------------------------------|
| 1780 | 11660 | 13220 |
| Aluminium | Steel / Aluminium | Steel |
| Swivel angle limiter 9805296000 | Castors and support feet see page 151 | Castors and support feet see page 151 |
| | | |
| | | |
| 4xO9 4xNi3iO9 4xNi3iO | 550 | 30 - 4xM10 |

Suspension System CS-3000

Article

Article number (colour) Tube adapter

RAL 9006 white aluminium RAL 7016 anthracite grey 1015300208 1015300039

Adapter (narrow section)

1015300209 1015300011

RAL 9006 white aluminium RAL 7016 anthracite grey





Details

Required for connecting tubes shortened directly at place of installation: Tubes machined at one end and of unspecified lengths can be cut to size and connected to the system with the tube adapter

Only to be used together with couplings (for attachment to BERNSTEIN enclosures with depths <120 mm)

Weight in g

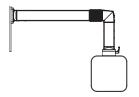
Material

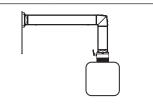
Aluminium

Aluminium

Accessories (retrofitable)

Application example

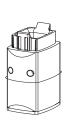


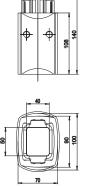


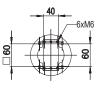
6xØ6,5

Dimensions in mm

CAD files available at www.bernstein.eu











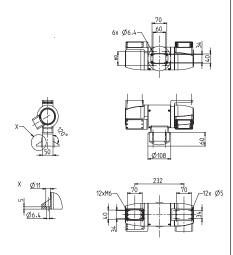


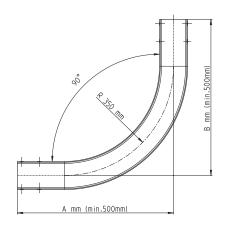
| Coupling head | | Bent Tube | |
|--------------------------|--|-------------------|--------------------|
| 9808017400 9806818000 | RAL 9006 white aluminium RAL 7016 anthracite grey | Customer-specific | Anodised aluminium |





| Coupling head for infinitely variable, pivoted attachment of control enclosures (infinitely variable from 0° to 30°) and keyboard consoles (infinitely variable from 0° to 20°) to coupling components CS-3000. | Bent tube manufactured to individual specifications (dimensions min. 500 mm, max. 1.000 mm) Reduced assembly time due to its elbow free design, snag free cable routing, no limitation of the load bearing capacity compared to traditional systems with straight tubes. | |
|---|--|--|
| 3400 | Depending on version | |
| Aluminium | Aluminium | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | see page 86 | |
| | | |





Suspension System CS-3000

CS-3000 HV – Vertically adjustable modules for optimum ergonomics

With the vertically adjustable CS-3000 HV, BERNSTEIN offers an innovative expansion to the CS-3000 suspension system. Flexible height adjustment and internal cable routing make the HV version even easier to install and operate.

With a variable lift range of 250 mm, the support system can be adjusted infinitely variable to the required working height. The integrated gas-filled damper system ensures the enclosure can be raised with minimum effort while preventing it from dropping suddenly after the clamping lever is released. This means added convenience but above all greater safety.

The CS-3000 HV is available as an optionally mobile stand base or wall-mounted version and can be easily integrated in an existing CS-3000 system.



Overview of advantages:

- Thanks to the 250 mm variable lift, the ideal viewing height can be adjusted for each operator
- Gas-filled damper system provides effective support during lifting and prevents the supported enclosure dropping suddenly after the clamping lever is released
- Internal cable routing
- Straightforward integration in CS-3000 suspension system

Selection criteria

- Selection of the size of gas-pressurised damper depends on the total weight and the ambient temperature
- The total weight is calculated from:
 Enclosure + installed equipment + coupling components

Article numbers see page 145 onwards

| erature | 40°C | 100 N (6–11 kg |) 150 N (11–19 kg) | 150 N (11–19 kg) | | 200 N (19–29 kg) | | j) |
|----------|------|---------------------|--------------------|------------------|--------------------|------------------|--------------------|------------|
| it tempe | 30°C | 100 N (5.5–10.5 kg) | 150 N (10.5–18 kg) | | 200 N (18–27.5 kg) | | 300 N (27.5–37 kg) | |
| Ambier | 20°C | 100 N (5-10 kg) | 150 N (10–17 kg) | | 200 N (17–26 kg) | 3 | 00 N (26–35 kg) | _ |

Damper force / total weight

Materials

- Anodised aluminium tubing
- Pressure die-cast aluminium components
- Polyamide covers for installation openings
- POM bearing
- Neoprene seals

Colours

- Suspension system components:
 RAL 7016 anthracite grey / RAL 9006 white aluminium
- Connecting tubes: silver (natural) anodised

Accessories

Design

Set of castors, consisting of 4 swivel castors.

Load-bearing capacity of each castor 70 kg.

2 castors with brake.

Castors Ø 75 mm

Construction height 90 mm



| Article | Adapter flange | Adapter plates | Signal lamp adapter |
|----------------|--|---|---|
| Article number | 9806649000 | 9806678000 9806520000 | see specification |
| | | | |
| Design | For enclosure with door section and / or keyboard RAL 9006 9806898000 | 9806678000 For connecting adapter flange to coupling 48 9806520000 Required together with coupling RD 48 for attachment to CC-4000 section 80 | For connecting commercially available 25 mm diameter signal lamps to CS-3000 suspension system components 9805317000 joint components 9805318000 elbow components |
| Article | Swivel angle limiter CS-3000 CS-3000 neXt | Set of caps | Castors |
| Article number | 9805296000 9806906000 | 9806590000 | 9808012800 |
| | | | |
| Design | CS-3000 Swivel angle limiter for coupling and joint components. Adjustable in steps of 13.7°. Contains ten Ø 10 mm steel balls. CS-3000 neXt Adjustable in steps of 30°. Contains 6 swivel angle limiter. | Plastic caps similar to RAL 9006 for closing off the hexagon sockets on tube mounting screws. Set of 50 | Set of castors, consisting of 4 swivel castors. Complete with installation material and instructions. Load-bearing capacity of each castor 50 kg Construction height 100 mm Castors Ø 75 mm |
| Article | Equipment castors | Support feet | Floor anchoring brackets |
| Article number | 9808015300 | 9808012900 | 9808014100 |
| | | | |

Vertically adjustable feet (1 set = 4 pieces).

Complete with installation material and

Adjustable construction height

instructions.

approx. 37 - 50 mm

Set of floor anchoring brackets for large base

Heavy-Duty Suspension System CS-2000 System 80

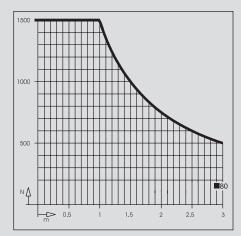
With its large number of components, the BERNSTEIN CS-2000 System 80 suspension system offers technically perfected solutions for a wide range of applications.

System structure

The following conditions are decisive for selecting the right system:

- Load of overall system
- Clear cable leadthrough if necessary
- Design
- System constellation

After determining the correct size of suspension system, the corresponding components and tubes are selected to build up the required system constellation.



Load diagram

The overview on Pages 110 /111 is designed to help you determine the load bearing capacity of all BERNSTEIN suspension systems.



Materials

- Aluminium components: cast aluminium
- Cast steel components: GGG 40
- Welded steel structures: St 37
- Support tubes: St 37
- Bearings: St/PTFE or POM
- Seals: CR
- Installation openings: cast aluminium
- Gaiters: PVC

Colours

- Suspension system components: light grey, RAL 7035
- Gaiters: light grey, RAL 7035
- Tubing: light grey, RAL 7035

System features

- Installation openings at all joints for easy cable installation
- Integrated strain relief for griping cables
- Wide range of available components for variable configurations
- Maintenance-free no-play bearings in all joints and couplings
- Adjustment facilities for precisely aligning support tubes
- Wall and intermediate joints with adjustable torque and retrofitable swivel angle limiter (available as accessory)
- Flange couplings with adjustable firmness and retrofitable rotation angle limiter
- Overhead installation of all components possible

Connecting Tube CS-2000 System 80



Tubing

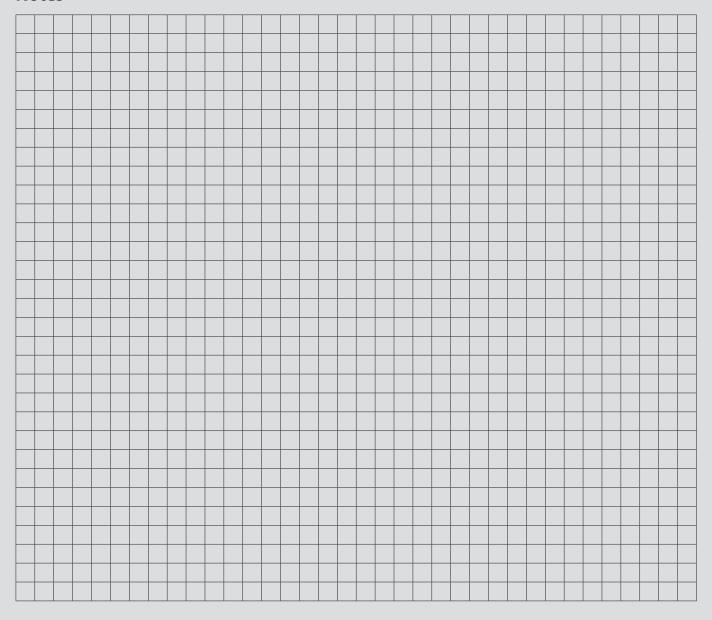
The steel tubes for the CS-2000 System 80 suspension system are available in different lengths (tube lengths in accordance with DIN 7168).

The steel tubes are supplied powder-coated in RAL 7035 (light grey).

Weight: 11.0 kg/m

| Available tube lengths | | |
|------------------------|-----------|----------------|
| | Length mm | Article number |
| | 250 | 9527114000 |
| | 500 | 9527115000 |
| | 750 | 9527116000 |
| | 1000 | 9527117000 |
| | 1250 | 9527118000 |
| | 1500 | 9527119000 |
| | 2000 | 9527121000 |
| | 3000 | 9527123000 |

Notes



Heavy-Duty Suspension System CS-2000 System 80

Article

Article number (colour) Standard coupling, flange CS-2000

1016702000 RAL 7035 light grey RAL 9006 white aluminium 1016876000

Elbow coupling, flange CS-2000

1016705000 RAL 7035 light grey RAL 9006 white aluminium 1016877000





Details

Angle of rotation 300° with stop. Complete with seals and mounting screws. Adjustable torque

Angle of rotation 300° with stop. Complete with seals and mounting screws. Adjustable torque. Installation

Weight in g Material

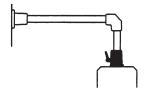
Aluminium

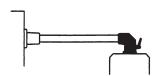
Aluminium

Accessories (retrofitable)

Swivel angle limiter 9805176000 Swivel angle limiter 9805176000 9805189000 Signal lamp adapter

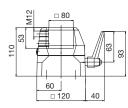
Application example





Dimensions in mm

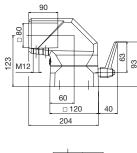
CAD files available at www.bernstein.eu



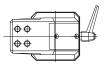
















Turn / tilt coupling CS-2000 Elbow CS-2000 Elbow for torque load CS-2000

 1016321000
 RAL 7035 light grey
 1016708000
 RAL 7035 light grey
 1016711000
 RAL 7035 light grey

 1016878000
 RAL 9006 white aluminium
 1016879000
 RAL 9006 white aluminium
 1016880000
 RAL 9006 white aluminium

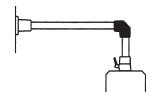


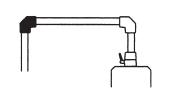


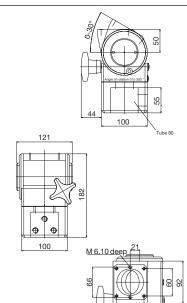


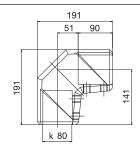
| Angle of rotation 300° with stop. Infinitely variable inclination from 0 to 30°. Complete with seals and mounting screws | | Installation opening. Complete with seals | | Increased load bearing capacity. Complete with seals. Installation opening | |
|--|------------|---|------------|--|------------|
| 2900 | | 2900 | | 8500 | |
| Aluminium and PA | | Aluminium | | GGG | |
| | | | | | |
| Swivel angle limiter | 9805130000 | Signal lamp adapter | 9805189000 | Signal lamp adapter | 9805189000 |
| | | | | | |
| | | | | | |
| | | | | | |

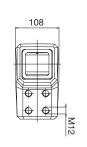


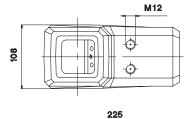


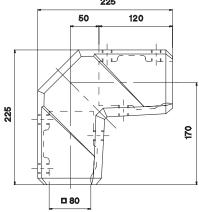












Heavy-Duty Suspension System CS-2000 System 80

Article

Article number

(colour)

Intermediate joint CS-2000

1016471000 1016881000 RAL 7035 light grey RAL 9006 white aluminium

Top joint CS-2000

1016714000 1016882000

RAL 7035 light grey RAL 9006 white aluminium





Details

With gaiter attached with zip fastener. Swivel angle 180° with stop on both sides. Torque adjustment

Angle of rotation 306° with stop. Complete with seals and mounting screws.

Weight in g

Material

Steel

20620

GGG

9805062000

Accessories (retrofitable)

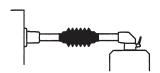
Swivel angle limiter

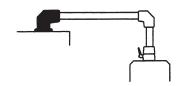
Swivel angle limiter

Signal lamp adapter

9805177000 9805188000

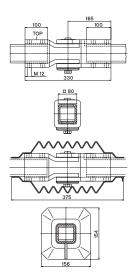
Application example

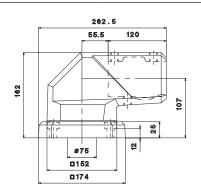


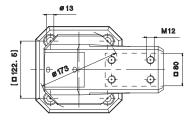


Dimensions in mm

CAD files available at www.bernstein.eu









Wall joint CS-2000 Wall joint for cable leadthrough CS-2000 Wall flange CS-2000

 1016473000
 RAL 7035 light grey
 1016474000
 RAL 7035 light grey
 1016472000
 RAL 7035 light grey

 1016883000
 RAL 9006 white aluminium
 1016884000
 RAL 9006 white aluminium
 1016885000
 RAL 9006 white aluminium







With gaiter attached with zip fastener.

Swivel angle 180° with stop on both sides.

Torque adjustment

With gaiter attached with zip fastener.

Swivel angle 180° with stop on both sides.

Torque adjustment

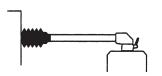
Complete with seals

Swivel angle 180° with stop on both sides.

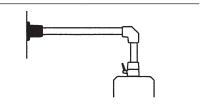
 9250
 9500
 9100

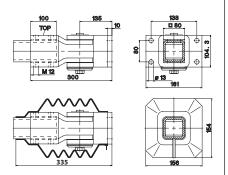
 Steel
 Steel
 GGG

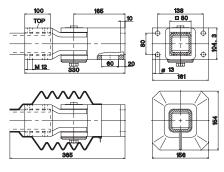
Swivel angle limiter 9805062000 Swivel angle limiter 9805062000

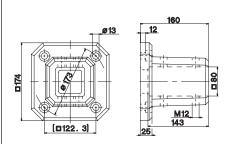












Heavy-Duty Suspension System CS-2000 System 80

Article

Article number

(colour)

Base CS-2000

1016475000 1016886000

Complete with seals

RAL 7035 light grey RAL 9006 white aluminium Free-standing base CS-2000

For free-standing applications

1016323000 1016887000 RAL 7035 light grey RAL 9006 white aluminium





| Details | | | |
|-------------|--|--|--|
| | | | |
| Weight in g | | | |

| Material | |
|----------------------------|--|
| | |
| Accessories (retrofitable) | |
| | |
| | |

Application example

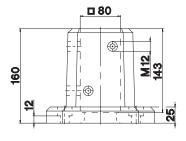
Dimensions in mm

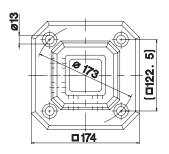
CAD files available at www.bernstein.eu

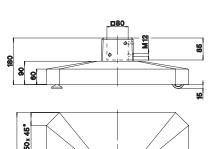
9240 14300
GGG Aluminium

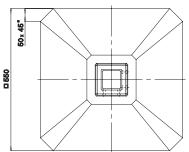
Castors and Support feet see Page 162/163













Support column, upright version

Support column, suspended version, 250 mm tube

1016558000
RAL 7035 light grey
1016888000
RAL 9006 white aluminium
RAL 9006 white aluminium

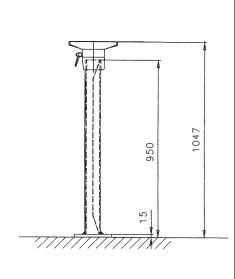
Support column, suspended version, 250 mm tube
1016556000
RAL 7035 light grey
1016889000
RAL 9006 white aluminium
1016890000
RAL 9006 white aluminium

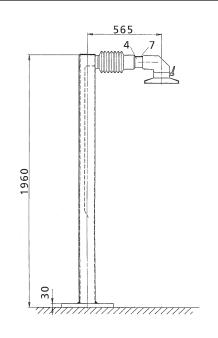


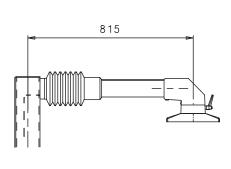




| 27220 | 102000 | 105000 |
|-------------------|-------------------|-------------------|
| Steel / Aluminium | Steel / Aluminium | Steel / Aluminium |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |







Heavy-Duty Suspension System CS-2000 System 80

Article

Article number

(colour)

Support column, suspended version, 750 mm tube

1016557000 1016891000

Steel / Aluminium

RAL 7035 light grey RAL 9006 white aluminium Adapter flange CS-2000

9806213000 9806901000

Aluminium

RAL 7035 light grey RAL 9006 white aluminium





| Detail | S | | | |
|--------|---------|--|--|--|
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| Weigh | nt in g | | | |

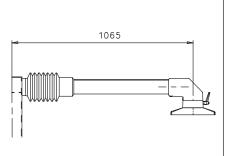
Weight in g Material

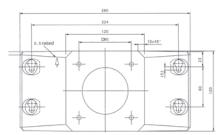
Accessories (retrofitable)

Application example

Dimensions in mm

CAD files available at www.bernstein.eu







Tilt adapter CS-2000 15°

Tilt adapter CS-2000 30°

Tilt adapter CS-2000 60°

1016459000 1016892000

RAL 7035 light grey RAL 9006 white aluminium

1016460000 1016893000 RAL 7035 light grey RAL 9006 white aluminium 1016461000 1016894000

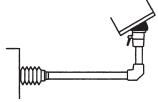
RAL 7035 light grey RAL 9006 white aluminium

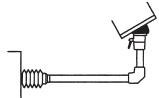


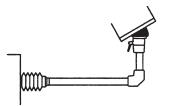


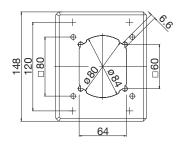


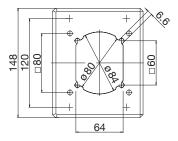
| 460 Aluminium | 600 Aluminium | 800 Aluminium | |
|------------------|------------------|------------------|--|
| Aluminium | Aluminium | Aluminium | |
| _ | | _ | |

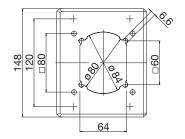


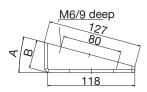


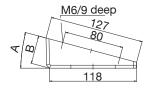


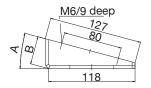












Accessories for Suspension Systems CS-2000 SL and System 80

Article CS-1000 VESA 75/M4 CS-1000 VESA 100/M4 9806675000 Article number 9806676000 Design For rear attachment of monitors or similar with VESA 75 For rear attachment of monitors or similar with VESA 100 flange on CS-1000 suspension arm system flange on CS-1000 suspension arm system Swivel angle limiter for coupling components, Article Swivel angle limiter for coupling components, CS-2000 SL system CS-2000 System 80 Article number 9805129000 9805176000 Design Easy-to-retrofit swivel angle limiter. Easy-to-retrofit swivel angle limiter. After installation, the balls limit the swivel angle. After installation, the balls limit the swivel angle. Adjustable in steps of 8.5°. Material PA. Adjustable in steps of 9°. Material PA. Signal lamp adapter CS-2000 System 80 Fixed castors for large free-standing bases CS-2000 SL and CS-2000 System 80 RAL 7035 light grey 9805189000 **Article number** 9808017400 9806043000 Design Easy-to-retrofit signal lamp adapter. Complete with installation material and instructions Installation opening for signal lamp tubes with outside for large free-standing bases. Set of 2. diameter of 25 mm, secured on side with setscrews. Material aluminium



CS-2000 SL Panel VESA 100/M4

CS-2000 SL Panel VESA 100/M6

Swivel angle limiter for wall and intermediate joints CS-2000 System 80

9806677000



9805062000



For rear attachment of monitors or similar with VESA 100 flange by means of CS-2000-SL panel couplings (with M4 thread for monitors)



For rear attachment of monitors or similar with VESA 100 flange by means of CS-2000-SL panel couplings (with M4 thread for monitors)



Swivel angle limiter as retrofitable accessory kit for wall and intermediate joints. Swivel angle range adjustable and fixed in steps of 15°. Material steel.

Swivel angle limiter for joint components System CS-2000 SL

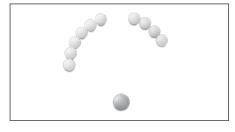
9805132000

Swivel angle limiter for joint components CS-2000 System 80

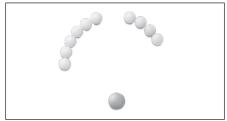
9805177000

Swivel angle limiter for turn / tilt couplings System CS-2000 SL and CS-2000 System 80

9805130000



Easy-to-retrofit swivel angle limiter. After installation, the balls limit the swivel angle. Adjustable in steps of 14°. Material PA



Easy-to-retrofit swivel angle limiter. After installation, the balls limit the swivel angle. Adjustable in steps of 8.5°. Material PA



Easy-to-retrofit swivel angle limiter. After installation, the balls limit the swivel angle. Adjustable in steps of 8.5°. Material PA

Swivel castors for large free-standing bases CS-2000 SL and CS-2000 System 80

9806044000

Adjustment feet for large free-standing bases CS-2000 SL and CS-2000 System 80

9806045000



Complete with installation material and instructions for large free-standing bases. Set of 2



Complete with installation material and instructions for large free-standing bases. Set of 2

Stainless Steel Enclosure CC-800

Housing concept to the highest standards

Thanks to its specific, individual concept, the redesigned CC-800 range of stainless steel control enclosures provides maximum security for your applications. It is ideally suited for use in applications where the use of stainless steel is a legal requirement.

Features such as high-quality workmanship, modern design and high-grade, durable material makes the CC-800 the first choice over enclosures made from other materials.



The **BERNSTEIN System solutions** (see page 12 to 13) you can be sure that our CC-800 will provide the perfect solution to your specific application: We make your application requirements reality. The combination of customer technology and completely assembled BERNSTEIN stainless steel enclosures is the foundation for complete system integration.

Product features

- Individual sizes within the housing concept, external dimens. min. 260 x 250 x 130 mm, max. 610 x 550 x 250 mm (configurable by Checklist)
- Modern design
- Protection class IP 65
- Including earthing material
- Lock and hinges mounted laterally outside the protected area
- Reinforced seal frame for improved stability

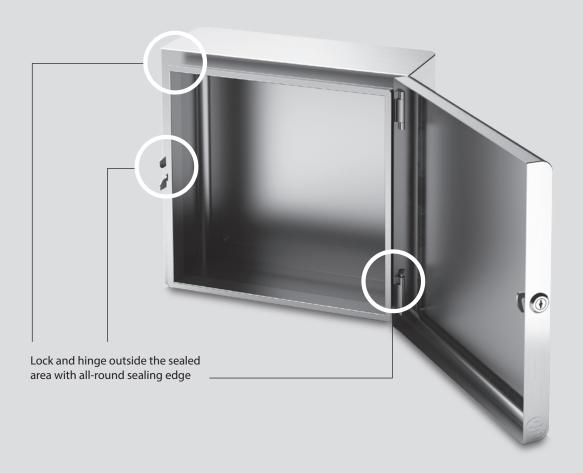
Material

 Enclosure, including mounting plate and lock, stainless steel 1.4301, copper earthing strap

Surface finish

 Enclosure and front door, brushed finish, grain size 320





Stainless steel 10° tilt Keyboard shelf

For housing widths of 500 mm. Fixing kit included. (additional machining required)

Art. No. 9806176000



Stainless steel handles

For side mounting to the enclosure. Fixing kit included. (additional machining required)

Art. No. 9808011900 length 250 mm **Art. No. 9808012000** length 350 mm



Mounting plate on request.

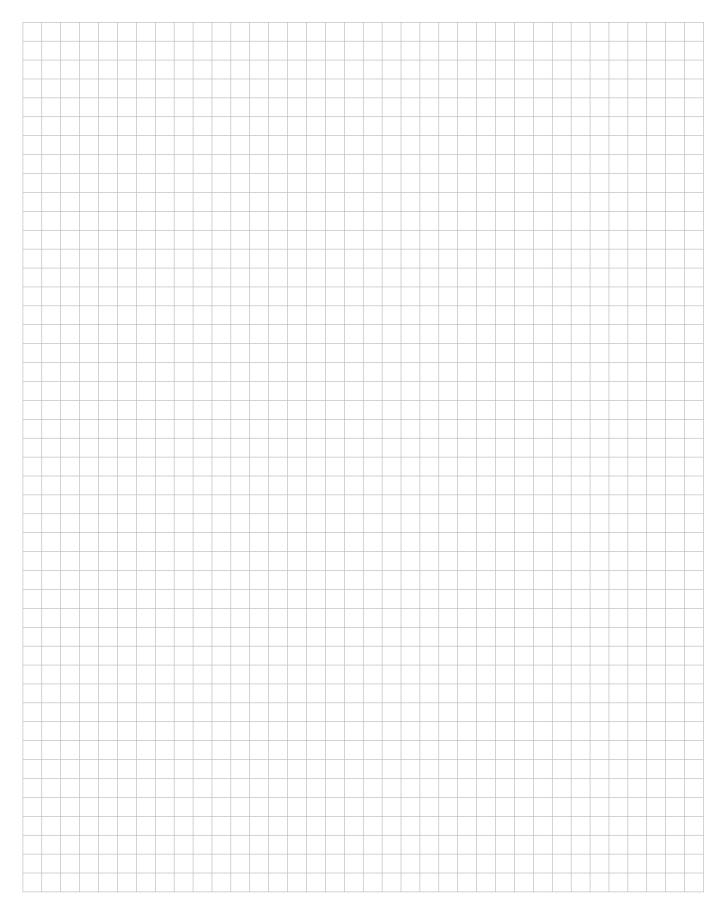
Checklist – Enclosure CC-800

| Customer | *Product group | | *Code | 2 | *Article nun | nber |
|--|---------------------------------------|---------------------------------|-------------------------------|--------------------------------|-------------------------------|----------------------------------|
| Address | | | | | Customer N | lo. |
| Telephone | Telefax | | Indus | try | | |
| Contact person | | | | | Departmen | t |
| \square Pricing enquiry | | | | | | |
| | | | Targe | t price | Quantity | |
| ☐ Enquiry | | | | | | |
| _ | | | *Enqu | iry No. | Annual requ | uirement |
| ☐ Order | | | | | | |
| | | | Delive | ery date | Mounting pla Rear side W-1 | ate attachement 102xH-92 |
| 1 Dimensions (V | V x H x D in mm |) | | | | |
| □ **External dimens. | X : | | area | Installation area | area | Installation area Rear side W-50 |
| or | | | Installation area Door H-100 | Door W-100 | Installation area | |
| ☐ Installation area | x : | · | Doc | | Instal Rears | 0 0 |
| 2 Aperture | □ None | ☐ in door (W x H in mm) | _ x | ☐ in rear side (W x H in mm | e x | |
| 3 Door mountin | g | □ Left | Ţ | □ Right | | |
| 4 Preparation fo | or suspension s | /stem | | | | |
| ☐ Standard preparation ☐ Standard preparation ☐ None (if e.g. wall brac ☐ Special preparation to | (CS-600 NR) kets are needed, pleas | | | | | □ Top Side □ Bottom |
| 5 Enclosure surf | ace 🗵 | Brushed finish, g | rain size 3 | 20 (standard) | | |
| 6 Accessories | | | | | | |
| ☐ Mounting plate | ☐ Keyboard shelf | ☐ Handl. 250 m (Handl. mount | | | | |
| Additional ap | pertures, holes | , accessories | , remar | 'ks □ Annex | es 🗆 No an | nexes |
| | | | | | | |
| | | | | | | |

^{*}Completed by BERNSTEIN ** External dimens. min. 260 x 250 x 130 mm, max. 610 x 550 x 250 mm



Notes



Stainless Steel Suspension System CS-480 NR

Product features

The CS-480 NR suspension system was specifically developed for mounting control enclosures in hygienic areas in the food and pharmaceuticals industries.

Thanks to the variety of different models, the CS-480 NR ensures absolute flexibility. You have the choice between a combination of tubes shaped to customer specifications and suspension system components or, if time is pressing, you can combine the preshaped tubes and coupling sleeves available from stock with the suspension system components.

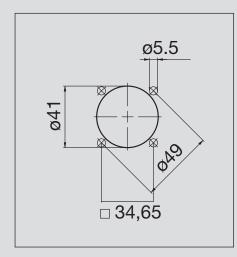


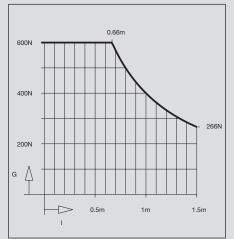
- Installation openings at bearing components with horizontal outlet
- Easy mounting by clamping the support tubes
- Load bearing capacity 400 N at 1 m
- Protection class IP66/NEMA 4X
- Material 1.4305
- Torque preset at factory

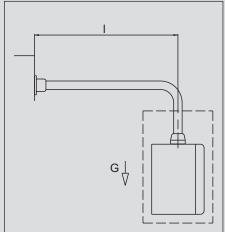
Enclosure preparation for mounting couplings

The dimensions of the coupling hole pattern for preparing the enclosure are shown in the following drawing.









Materials and surfaces

Stainless steel support tubes 1.4301
Stainless steel components 1.4305
Bearings POM
O-rings NBR

Load diagram

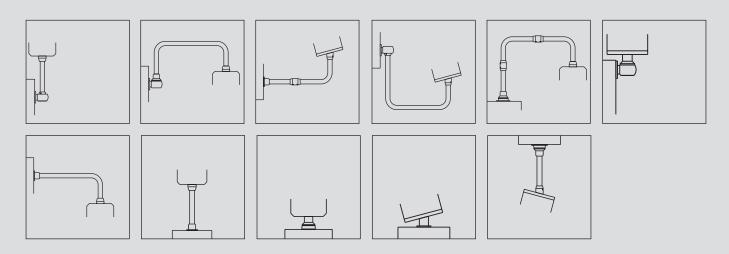
Refer to the diagram for the load bearing capacity of the CS-480 NR suspension system. Approval for higher loads is to be obtained separately. The system length I refers to the length specification in the diagram.

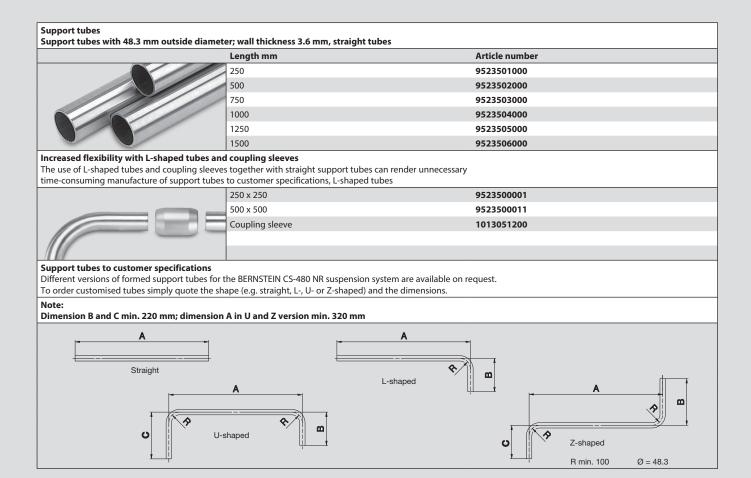
The overview on Pages 110 /111 is designed to help you determine the load bearing capacity of all BERNSTEIN suspension systems.



System combinations

The following selection illustrates the high degree of flexibility that can be achieved in configuring the suspension system:





Stainless Steel Suspension System CS-480 NR

| Article Article number | Straight coupling (for attaching enclosure) 1013050100 | Tilt coupling (for attaching enclosure) 1013050300 |
|---|--|--|
| | | |
| Details | Flange coupling for mounting enclosures. Angle of rotation 340° with limit stop. Preset torque. Maintenance-free bearings. Complete with seals and mounting material | Rigid flange coupling with 15° tilt for mounting enclosures. Complete with seals and mounting material |
| Weight in g | 1400 Stainless steel | 1000 |
| Material | Stainless steel | Stainless steel |
| Accessories (retrofitable) | | |
| Application example | | |
| CAD files available at www.bernstein.eu | Ø48.3 Ø40 Ø40 M5, 15 deep | Ø70 Ø48.3 Ø40 M5, 12 deep |
| | Ø 5.5 | 9 5.5 |



| Rotary base coupling, external mounting | Rotary base coupling, internal mounting | Base tilt coupling |
|---|---|--------------------|
| 1013050700 | 1013050800 | 1013050400 |







| Rotary base coupling (external mounting) for directly mounting enclosures on machines or floors. Angle of rotation 340° with limit stop. Preset torque. Maintenance-free bearings. Complete with seals and mounting material | Rotary base coupling (internal mounting) for directly mounting enclosures on machines or floors. Angle of rotation 340° with limit stop. Preset torque. Maintenance-free bearings. Complete with seals and mounting material | Rigid tilt coupling with 15° tilt for directly mounting enclosures on horizontal surfaces. Complete with seals and mounting material |
|--|--|--|
| 4500 | 4100 | 1900 |
| Stainless steel | Stainless steel | Stainless steel |
| | | |
| | | |
| | | |
| | | |
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| | | |
| | | |
| | | \ |
| | | |
| | | |
| | | |
| 95.5 4 | Ø5.5 | 5.5 |
| Ø109 Ø71 M5, 12 deep Ø40 Ø149 | #16 #12 deep | 070 M5, 12 deep |
| 08/69 1001.22 | 89 | M8 / ø9 ——————————————————————————————————— |

Stainless Steel Suspension System CS-480 NR

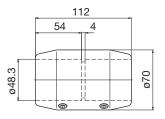
| Article | Coupling sleeve | Wall joint S |
|----------------|-----------------|--------------|
| Article number | 1013051200 | 1013050900 |

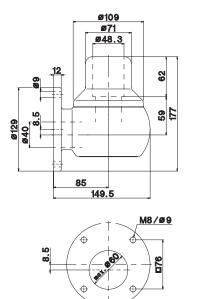




| Details | Coupling sleeve for easy assembly and disassembly of tube configurations. Complete with seals | Wall joint with vertical outlet for mounting on vertical surfaces. Cover for easy cable installation. Angle of rotation 340° with limit stop. Preset torque. Maintenance-free bearings. Complete with seals |
|----------------------------|---|--|
| Weight in g | 1500 | 7300 |
| Material | Stainless steel | Stainless steel |
| Accessories (retrofitable) | | |
| Application example | | |
| Dimensions in mm | | Ø109 Ø71 Ø48.3 |

CAD files available at www.bernstein.eu







| Wall coupling S | Wall bracket S | Rotary base socket, external mounting |
|-----------------|----------------|---------------------------------------|
| 1013051000 | 1013051100 | 1013050500 |







| Rotary wall coupling for directly mounting on vertical |
|---|
| machine surfaces. Angle of rotation 340° with limit |
| stop. Cover for easy cable installation. Preset torque. |
| Maintenance-free bearings. Complete with seals and |
| mounting material |
| |

Wall bracket with vertical outlet for mounting on vertical surfaces. Cover for easy cable installation. Complete with seals

Rotary base for mounting on machines or floors. Angle of rotation 340° with limit stop. Preset torque. Maintenance-free bearings. Complete with seals

| 7300 |
|-----------------|
| Stainless steel |

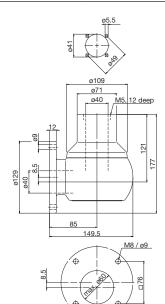
7700 Stainless steel

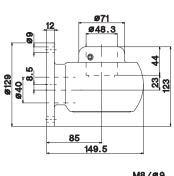
Stainless steel

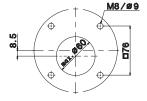
.

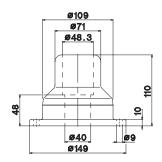












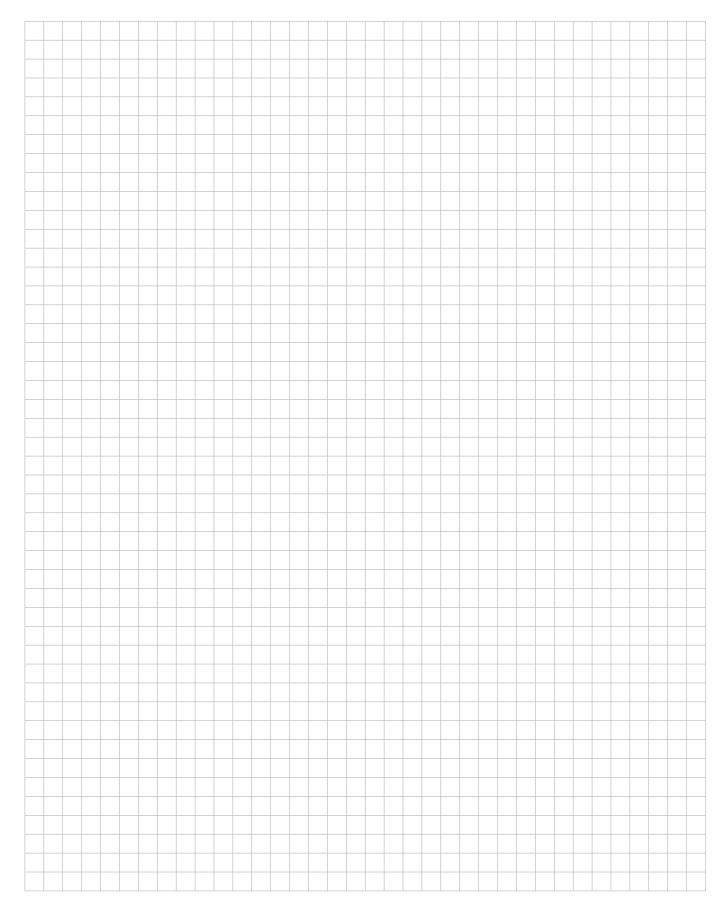


Stainless Steel Suspension System CS-480 NR

| Article | Rotary base socket, internal mounting | Base / wall flange |
|---|---|---|
| Article number | 1013050600 | 1013050200 |
| | | |
| Details | Rotary base for mounting on machines or floors. Angle of rotation 340° with limit stop. Preset torque. Maintenance-free bearings. Complete with seals | Base or wall flange for mounting on horizontal and vertical surfaces. Complete with seals |
| Weight in g Material | 3800 Stainless steel | 1400 Stainless steel |
| | Statilless steel | Stalliess steel |
| Accessories (retrofitable) | | |
| Application example | | |
| CAD files available at www.bernstein.eu | Ø109 Ø71 Ø48.3 Ø48.3 M8, 12 deep | Ø71 Ø48.3 Ø42 Ø109 M8 / Ø9 |



Notes



Stainless Steel Suspension System CS-600 NR

Product features

The CS-600 NR suspension system was specifically designed for mounting control enclosures in hygienic areas in the food and pharmaceuticals industries.

Compared to the conventional suspension systems, the CS-600 NR is characterised by its outstanding suitability for hygiene applications and its flexible modular concept.

The CS-600 NR makes it possible to mount units at an angle without the need for formed tubes, thus rendering time-consuming procurement of specially formed support tubes unnecessary.

The user can build up the modular suspension system easily, flexibly and variably from individual components available from stock.

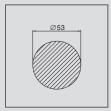


System advantages

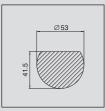
- Installation openings at bearing components with horizontal outlet
- No external screws or dirt-collecting edges – ideal for cleaning
- Easy mounting by clamping the support tubes
- All components vibration-protected
- Load bearing capacity 600 N at 1 m
- Protection class IP 66 / NEMA 4X
- Torque preset at factory
- Modern design
- Diverse range of components for unlimited combination options
- Choice of component materials: stainless steel 1.4305 or anodised aluminium

Cable leadthrough

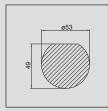
Due to different cross sections, the various suspension system components have available varying degrees of space. The dimensioned openings at the narrowest point within the components are specified below.



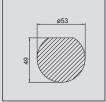
Coupling 2206 mm²



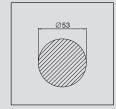
Elbow coupling 1853 mm²



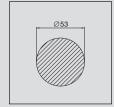
Wall joint 2130 mm²



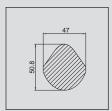
Top joint 2130 mm²



Wall flange/base 2206 mm²

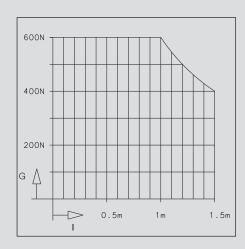


Rotary base 2206 2206 mm²



Elbow 1649 mm²





Load diagram

The diagram shows the load bearing capacity of the CS-600 NR suspension system.

The system length (I) refers to the length specification in the diagram.

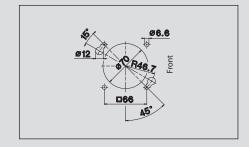
The overview on Pages 110 /111 is designed to help you determine the load bearing capacity of all BERNSTEIN suspension systems.

Enclosure preparation for mounting couplings

The dimensions of the coupling hole pattern for preparing the enclosure are shown in the drawing opposite.

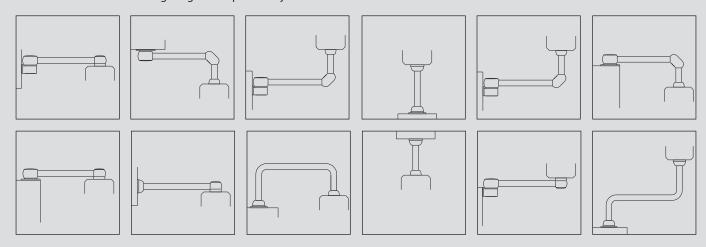
Materials and surfaces

Stainless steel support tubes 1.4301
Stainless steel components 1.4305
Bearings POM
O-rings NBR



System combinations

The following selection illustrates the high degree of flexibility that can be achieved in configuring the suspension system:



| | Length mm | Article number | |
|--|---|----------------|--|
| | 250 | 9523001000 | |
| | 500 | 9523002000 | |
| | 750 | 9523003000 | |
| | 1000 | 9523004000 | |
| | 1250 | 9523005000 | |
| | 1500 | 9523006000 | |
| | rt tubes for the BERNSTEIN CS-600 NR suspension s | | |
| fferent versions of formed support order customised tubes simply of order. | | | |

Stainless Steel Suspension System CS-600 NR

Article Straight coupling (for attaching enclosure) Elbow coupling (for attaching enclosure)

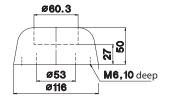
Article number 1014050100 1014050200

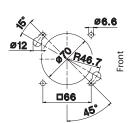


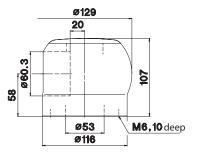


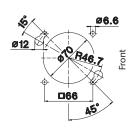
| Details | Flange coupling for mounting enclosures. Angle of rotation 300° with limit stop. Preset torque. Maintenance-free bearings. Complete with seals and mounting material | Flange elbow coupling for mounting enclosures. Installation opening cover seals off the screws hygiene-safe. Angle of rotation 300° with limit stop. Preset torque. Maintenance-free bearings. Complete with seals and mounting material |
|----------------------------|--|--|
| Weight in g | 2180 | 6520 |
| Material | Stainless steel | Stainless steel |
| | | |
| Accessories (retrofitable) | | |
| | | |
| | | |
| | | |
| Application example | | |
| Dimensions in mm | | |

CAD files available at www.bernstein.eu











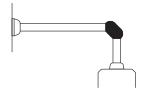
| Elbow | Top joint, external mounting | Top joint, internal mounting |
|------------|------------------------------|------------------------------|
| 1014050700 | 1014050600 | 1014051600 |

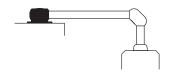


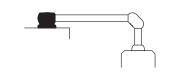


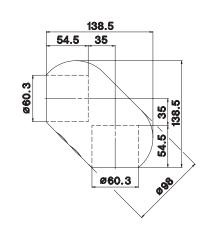


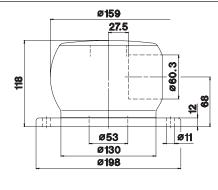
| Elbow for 90° connection of two support tubes. Including screw cover and seals | Top joint for mounting on horizontal surfaces. Installation opening cover seals off the screws hygiene-safe. Angle of rotation 300° with limit stop. Preset torque. Maintenance-free bearings. Complete with seals | Top joint for mounting on horizontal surfaces. Installation opening cover seals off the screws hygiene-safe. Angle of rotation 300° with limit stop. Preset torque. Maintenance-free bearings. Complete with seals |
|--|--|--|
| 4430 | 13590 | 12980 |
| Stainless steel | Stainless steel | Stainless steel |
| | | |
| | | |
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| | | |
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| | | |

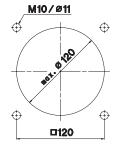


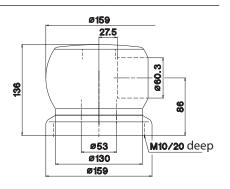














Stainless Steel Suspension System CS-600 NR

Article Rotary base socket, external mounting Rotary base socket, internal mounting

Article number 1014050400 1014051500





□96

| Details | Rotary base for mounting on machines or floors. Angle of rotation 300° with limit stop. Preset torque. Maintenance-free bearings. Complete with seals | Rotary base for mounting on machines or floors. Angle of rotation 300° with limit stop. Preset torque. Maintenance-free bearings. Complete with seals |
|---------------------------------------|---|---|
| Weight in g | 5720 | 6020 |
| Material | Stainless steel | Stainless steel |
| Accessories (retrofitable) | | |
| Application example | | |
| Dimensions in mm CAD files available | \$130 \$60.3 \$130 | Ø130 Ø60.3 |
| at www.bernstein.eu | Ø53 Ø11 Ø179 M10/Ø11 | Ø53 M10/20 deep |
| | #107 811 | Ø11 • • • • • • • • • • • • • • • • • • • |



| Wall joint | Wall flange / base |
|------------|--------------------|
| 1014050500 | 1014050300 |





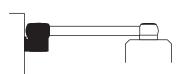
| Wall joint for mounting on horizontal surfaces. |
|---|
| Installation opening cover seals off the screws |
| hygiene-safe. Angle of rotation 300° with limit stop. |
| Preset torque. Maintenance-free bearings. Complete |
| with seals |

Wall flange or base for mounting on horizontal and vertical surfaces. Complete with seals

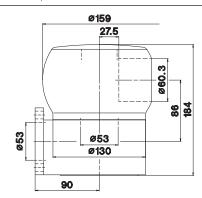
Stainless steel

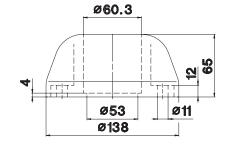
3700

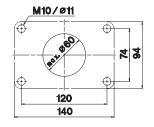
Stainless steel





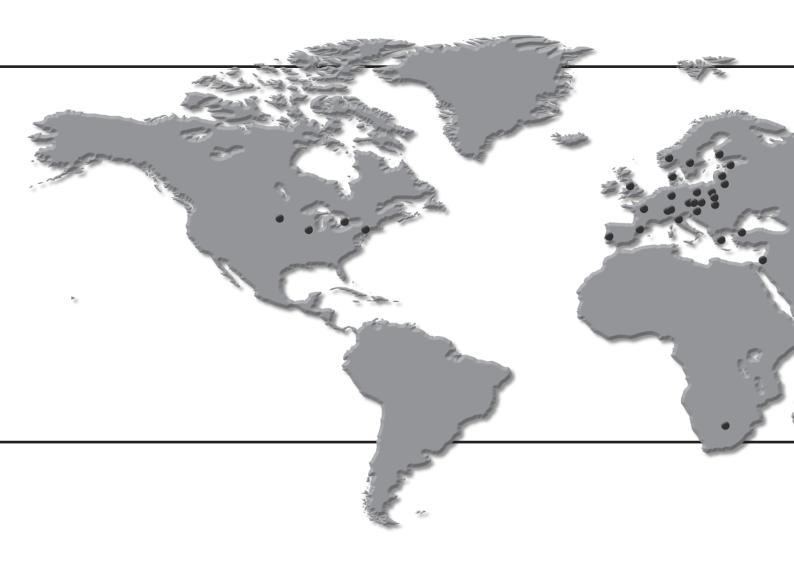




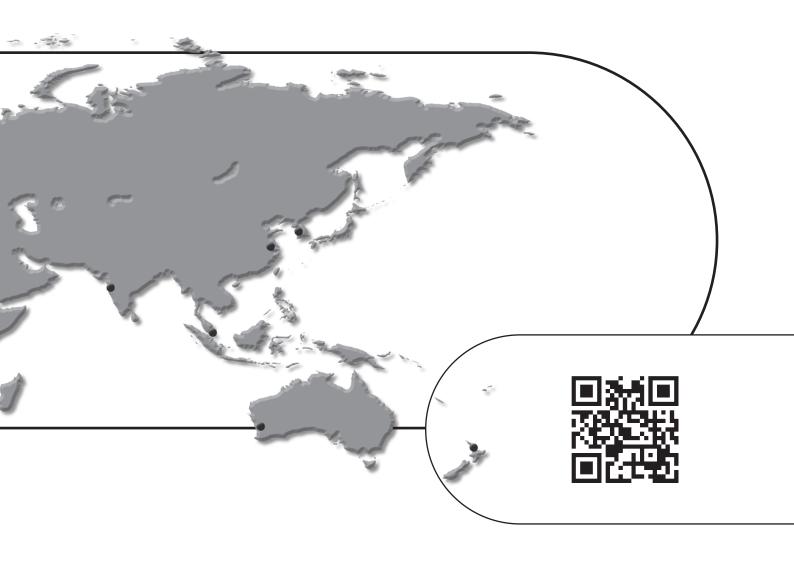




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Contact

International Headquarters BERNSTEIN AG

Hans-Bernstein-Str. 1 32457 Porta Westfalica Phone +49 571 793-0 Fax +49 571 793-555 info@de.bernstein.eu www.bernstein.eu

Denmark BERNSTEIN A/S

Phone +45 7020 0522 Fax +45 7020 0177 info@dk.bernstein.eu

France BERNSTEIN S.A.R.L.

Phone +33 1 64 66 32 50 Fax +33 1 64 66 10 02 info@fr.bernstein.eu

Italy BERNSTEIN S.r.l.

Phone +39 035 4549037 Fax +39 035 4549647 info@it.bernstein.eu

United Kingdom BERNSTEIN Ltd

Phone +44 1922 744999 Fax +44 1922 457555 info@uk.bernstein.eu

Austria

BERNSTEIN GmbH Phone +43 2256 62070-0

Fax +43 2256 62618 info@at.bernstein.eu

Switzerland BERNSTEIN (Schweiz) AG

Phone +41 44 775 71-71 Fax +41 44 775 71-72 info@ch.bernstein.eu

Hungary BERNSTEIN Kft.

Phone +36 1 4342295 Fax +36 1 4342299 info@hu.bernstein.eu

China

BERNSTEIN Safe Solutions (Taicang) Co., Ltd.

Phone +86 512 81608180 Fax +86 512 81608181 info@bernstein-safesolutions.cn