SN2
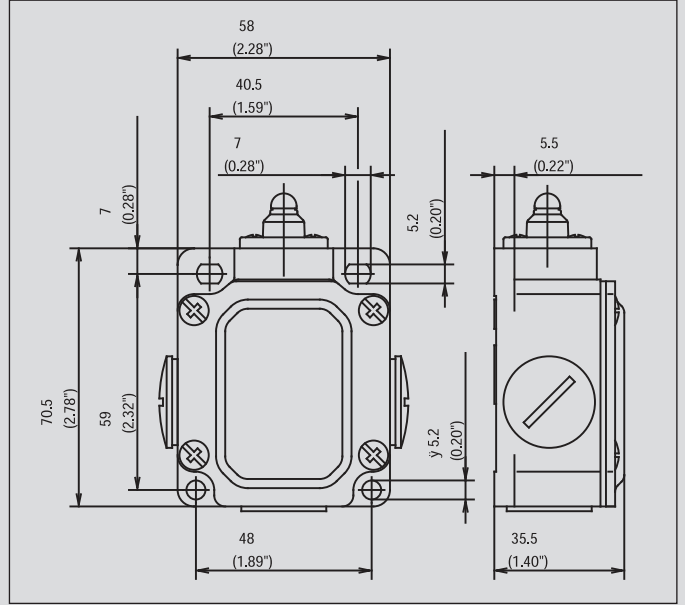

Recommended use

With its three cable entries and spacious connection area, the SN2 limit switch is the optimum solution for through-wiring or even branching off electrical circuits.

Product advantages

- Protection class IP 65 to VDE 0470 T1
- Enclosure: Aluminium pressure die-casting
- Cover: Sheet aluminium
- Actuator can be repositioned by 4 x 90°
- Cable entry 3x M20 x 1.5
- Connection designation conforming to DIN EN 50013
- Metal actuators for high loads
- Graduated adjustment of AH lever
- Selectable direction-dependent contact-making of AH actuator (basic setting: contact-making both sides)

Options

- AS interface versions on request
- Preassembled with customer-specific cables and connectors on request

Design layout

- Slow-action and snap-action contacts
- Versions: 1 NC / 1NO, 2 NC
- All NC contacts with ⊖ in the circuit diagram are positively opening contacts
- Type: Zb (galvanically isolated changeover contact)
- Latching function on request

Mounting

- 2 adjustment slots for M5 screws
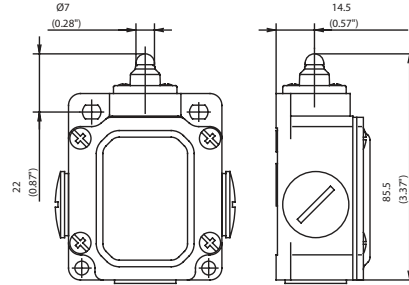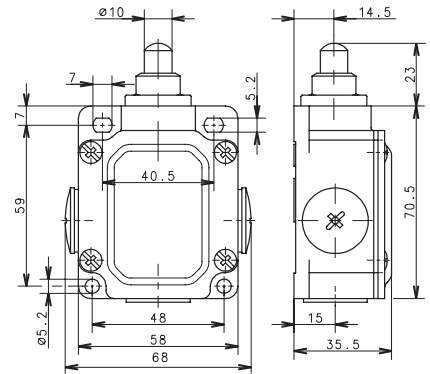- 2 addition holes for M5 mounting screws in safety applications
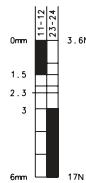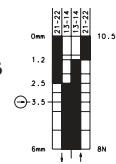
Installation advantages

- 3 cable entries for through-wiring
- Generously dimensioned connection space
- Screw connections with self-lifting clamping plates
- Easy-to-change switching system thanks to snap-in retainer
- Finely adjustable switching point with adjusting screw
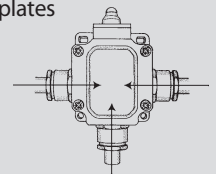
Technical data

Electrical data		
Rated insulation voltage	U_i max.	400 V AC
Conventional thermal current	I_{the}	10 A
Rated operating voltage	U_e max.	240 V
Utilization category		AC-15, A300, U_e/I_e 240 V/3 A
Short-circuit protection (up to)[1]		Fuse 10 A gL/gG
Protection class		I

Mechanical data	
Enclosure material	Aluminium pressure die-casting
Ambient temperature	–30 °C to + 80 °C
Mechanical service life	10×10^6 switching cycles
B10d (up to)[1]	20 Mill.
Switching frequency	max. 100/min.
Type of connection	Screw connections
Conductor cross sections	Single-wire 0.5 – 1.5 mm² or Stranded wire with ferrule 0.5 – 1.5 mm²
Cable entry	3 x M20 x 1.5
Protection class	IP 65 conforming to EN 60529, DIN VDE 0470 T1

Standards
conforming to EN 60947-1; EN 60947-5-1

[1] Depending on switching system. See Table on Pages 70 – 73.

W

Ø7
(0.28")

14.5
(0.57")

22
(0.87")

85.5
(3.37")

LIW

Ø10

14.5

7

7

5.2

23

59

40.5

70.5

Ø5.2

48

58

68

15

35.5

Switching operation	Slow-action	Snap-action	Slow-action	Snap-action
1 NC / 1 NO contact	**6033103023** SN2-U1Z W	**6033353016** SN2-SU1Z W		**6033194022** SN2-SU1 LIW
2 NC contacts				
2 NO contacts				
1 NC / 1 NO contact Overlapping				
Approvals	ⓊL ⓈA		ⓊL ⓈA	
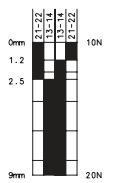
Replacement actuator: 3913030537

Replacement actuator: 3912440536

Special features / variants
(on request)

Special features / variants
● Telescopic plunger, particularly long actuation travel of 9 mm
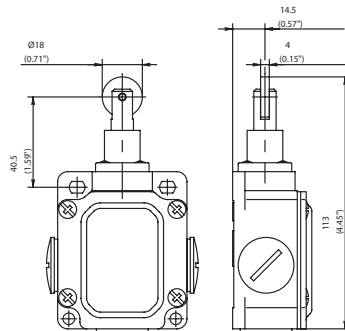
	RIW	AHS

Switching operation	Slow-action	Snap-action	Slow-action	Snap-action
1 NC / 1 NO contact	**6033117025** SN2-U1Z RIW	**6033367017** SN2-SU1Z RIW	**6033135002** SN2-U1Z AHS	**6033385018** SN2-SU1Z AHS
2 NC contacts				
2 NO contacts				
1 NC / 1 NO contact Overlapping				
Approvals				
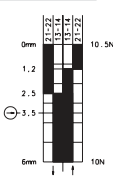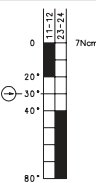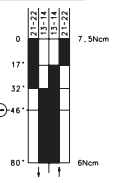
Replacement actuator: 3918170587

Replacement actuator: 3913351913

Special features / variants
(on request)
- Available with different actuating directions
- With latching function

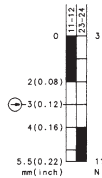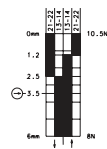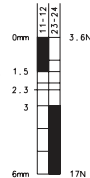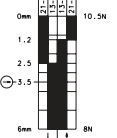**Special features / variants**
(on request)
- Available with different actuating directions

DGHW
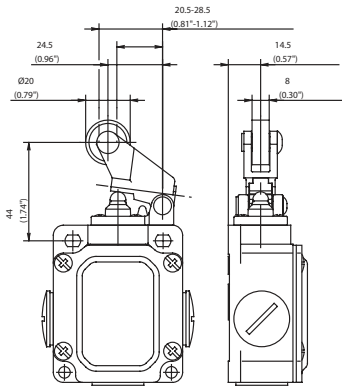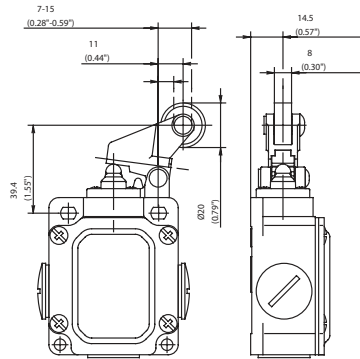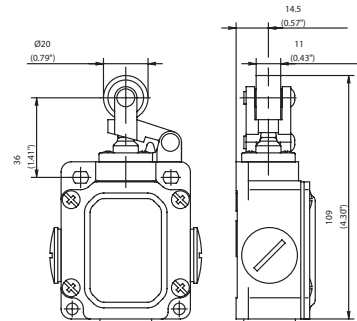
Slow-action	Snap-action
6033121005 SN2-U1Z DGHW	**6033371004** SN2-SU1Z DGHW
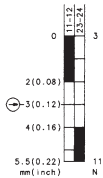
UL CSA us

Replacement actuator: 3918211656

Special features / variants
(on request)
● Available with different actuating directions
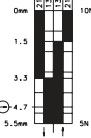
DGKW

Slow-action	Snap-action
6033127010 SN2-U1Z DGKW	**6033377011** SN2-SU1Z DGKW

UL CSA us

Replacement actuator: 3918271655

Special features / variants
(on request)
● Available with different actuating directions

HW

Slow-action	Snap-action
6033121007 SN2-U1Z HW	**6033371006** SN2-SU1Z HW

UL CSA us

Replacement actuator: 3913210553

Special features / variants
(on request)
● Available with different actuating directions
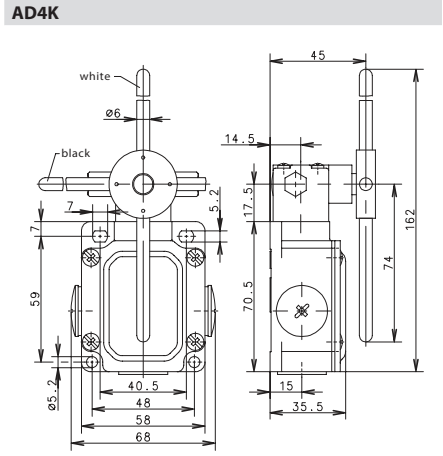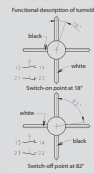
AD4K

Switching operation	Slow-action	Snap-action	
1 NC / 1 NO contact			
2 NC contacts	**6133887022** SN2-SA2Z AD4K		
2 NO contacts			
1 NC / 1 NO contact **Overlapping**			
Approvals			

Replacement actuator: **3913371712**
                      without screws,
                      without seals
                      3992000042
                      accessory bag
                      (40 screws,
                      10 seals)

Special features / variants
(on request)