## Insulation-Enclosed Limit Switches

## ENK



## Recommended use

Thanks to its design and its metal actuator, the ENK limit switch is particularly suitable for applications requiring a sturdy safety switch made of plastic.

## Product advantages

- Standard switch conforming to DIN EN 50041
- Standard actuator conforming to DIN EN 50041 (see page 16)
- Protection class IP 65 to VDE 0470 T1
- Enclosure and cover PA 6, (UL-94-V0)
- Actuator can be repositioned by $4 \times 90^{\circ}$
- Cable entry M20 x 1.5
- Connection designation conforming to DIN EN 50013
- Metal actuators for high loads


## Options

- Available with M12 connector
- AS interface variants available
- Preassembled with customer-specific cables and connectors on request


## Design layout

- Slow-action and snap-action contacts
- Versions: 1 NC / 1NO, 2 NC, 3 NC, overlapping contacts
- Latching function on request
- All NC contacts with $\Theta$ in the circuit diagram are positively opening contacts
- Type: Zb (galvanically isolated changeover contact)


## Mounting

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


## installation advantages

- Snap-on cover can be released with screwdriver
- Cover opening range $150^{\circ}$ (cover can also be detached from hinge)
- Cover protects switching element during installation
- Screw connections with self-lifting clamping plates
- Easy-action cover lock (close and press


## Technical data

| Electrical data |  |  |
| :---: | :---: | :---: |
| Rated insulation voltage | $U_{i}$ max. | 400 V AC |
| Conventional thermal current (up to) ${ }^{(1)}$ | $I_{\text {the }}$ | 10 A |
| Rated operating voltage | $U_{\text {e }}$ max. | 240 V |
| Utilisation category |  | AC-15, $\mathrm{U}_{\mathrm{e}} / \mathrm{l}_{\mathrm{e}} 240 \mathrm{~V} / 3 \mathrm{~A}$ |
| Short-circuit protection (up to) ${ }^{(1)}$ |  | Fuse $10 \mathrm{AgL/gG}$ |
| Protection class |  | II, Insulated |
| Mechanical data |  |  |
| Enclosure material | Therm | , glass fibre-reinforced |
| Ambient temperature | $-30^{\circ} \mathrm{C}$ to | $80^{\circ} \mathrm{C}$ |
| Mechanical service life (up to) ${ }^{(1)}$ | $10 \times 10^{6}$ | ching cycles |
| B10d (up to) ${ }^{\text {(1) }}$ | 20 Mio . |  |
| Switching frequency | $\leq 100 / \mathrm{m}$ |  |
| Type of connection | Screw co | ections |
| Conductor cross sections | Single-w <br> Strande | $0.5-1.5 \mathrm{~mm}^{2}$ or ire with ferrule $0.5-1.5 \mathrm{~mm}^{2}$ |
| Cable entry | $1 \times \mathrm{M} 20$ | \% $\approx 0.15 \mathrm{~kg}$ |
| Protection class | IP 65 onf | ing to EN 60529; DIN VDE 0470 T1 |
| Standards |  |  |
| VDE 0660 T100, DIN EN 60947-1, IEC 60947-1 <br> VDE 0660 T200, DIN EN 60947-5-1, IEC 60947-5-1 |  |  |

## (5) bernstein

## IW (Form B)



2 NO contacts

## Approvals


(41) © ©

Replacement actuator: 3918020660

## Special features / variants

(on request)

- Available with black enclosure and following contacts: 3 NC contacts


Replacement actuator: 3918170661

## Special features / variants

## (on request)

- Available for high temperature range and following contacts: 3 NC contacts


## ENK

## AHS-V (Form A)



2 NO contacts

## Approvals


(41) © (16)

Replacement actuator: 3918350737

## Special features / variants

(on request)

- Available with black enclosure
- With 50 mm diameter rubber roller and following contacts: 3 NC contacts


## Special features / variants

(on request)

- Available with different lever lengths and roller diameters
- With 50 mm diameter rubber roller
- With roller over switch


HW RO20

(1L) (1) ©

Replacement actuator: 3918370739

## Special features / variants

(on request)

- Available with various actuator directions and actuator lengths

(IL) (15) ©

Replacement actuator: 3918200906
Replacement actuator: 3918400662

## Special features / variants

(on request)

- Available with black enclosure and various roller diameters


## Special features / variants

(on request)

