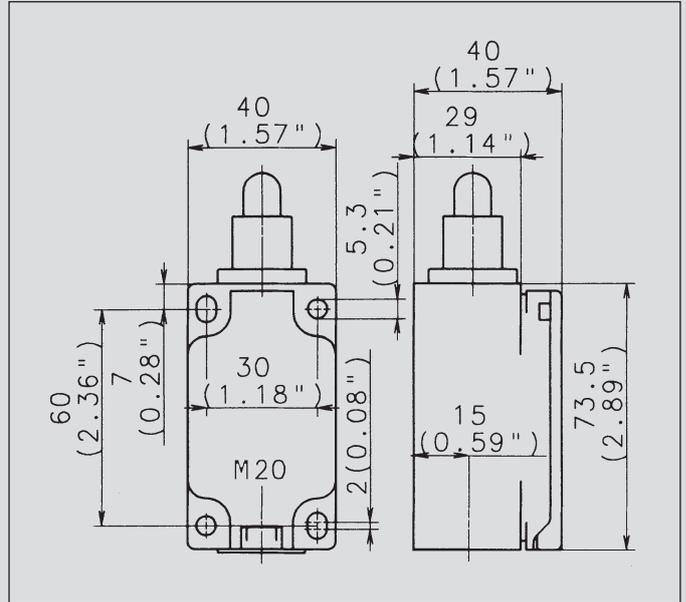


Insulation-Enclosed Limit Switches

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 15)
- Protection class IP 65 to VDE 0470 T1
- Enclosure and cover PA 6, (UL-94-V0)
- Actuator can be repositioned by 4 x 90°
- 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 ⊕ 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

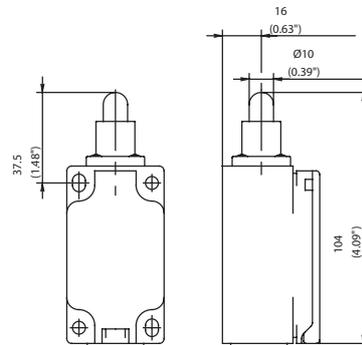
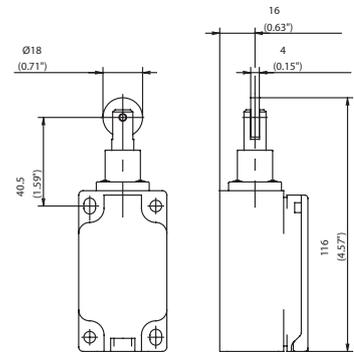
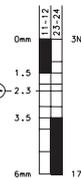
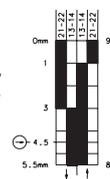
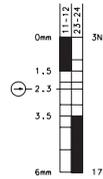
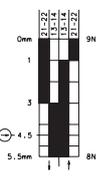
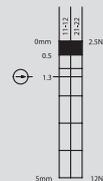
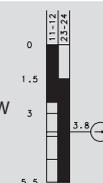
Installation advantages

- Snap-on cover can be released with screwdriver
- Cover opening range 150° (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 _{th}	10 A
Rated operating voltage	U _e max.	240 V
Utilisation category		AC-15, U _e /I _e 240 V/3 A
Short-circuit protection (up to) ^①		Fuse 10 A gL/gG
Protection class		II, Insulated
Mechanical data		
Enclosure material		Thermoplastic, glass fibre-reinforced
Ambient temperature		-30 °C to +80 °C
Mechanical service life (up to) ^①		10 x 10 ⁶ switching cycles
B10d (up to) ^①		20 Mio.
Switching frequency		≤ 100/min.
Type of connection		Screw connections
Conductor cross sections		Single-wire 0.5 – 1.5 mm ² or Stranded wire with ferrule 0.5 – 1.5 mm ²
Cable entry		1 x M20 x 1.5 ≈ 0.15 kg
Protection class		IP 65 onforming to EN 60529; DIN VDE 0470 T1
Standards		
VDE 0660 T100, DIN EN 60947-1, IEC 60947-1		
VDE 0660 T200, DIN EN 60947-5-1, IEC 60947-5-1		

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

IW (Form B)

RIW (Form C)

Switching operation
1 NC / 1 NO contact
Slow-action
Snap-action
6081102001
ENK-U1Z IW

6081152007
ENK-SU1Z IW

Slow-action
Snap-action
608117002
ENK-U1Z RIW

6081167008
ENK-SU1Z RIW

2 NC contacts
2 NO contacts
**1 NC / 1 NO contact
Overlapping**
6081817281
ENK-A2Z RIW

6081317307
ENK-UV1Z RIW

Approvals

Replacement actuator: 3918020660
Replacement actuator: 3918170661
Special features / variants
(on request)

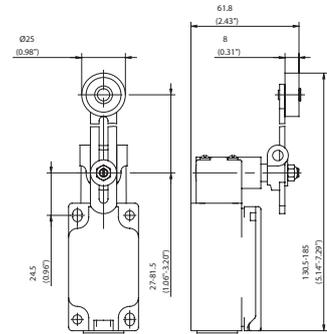
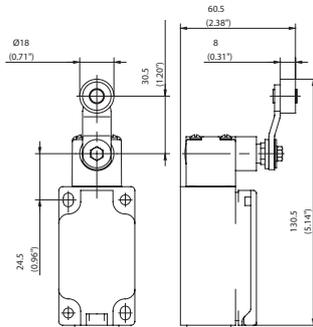
- Available with black enclosure and following contacts:
3 NC contacts

Special features / variants
(on request)

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

AHS-V (Form A)

AV



Switching operation

Slow-action

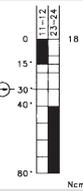
Snap-action

Slow-action

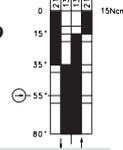
Snap-action

1 NC / 1 NO contact

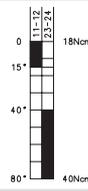
6081135003
ENK-U1Z AHS-V



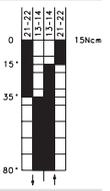
6081185009
ENK-SU1Z
AHS-V



6081136012
ENK-U1 AV

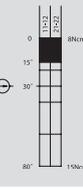


6081186018
ENK-SU1 AV



2 NC contacts

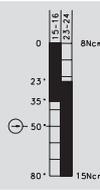
6081835323
ENK-A2Z AHS-V



2 NO contacts

1 NC / 1 NO contact
Overlapping

6081335006
ENK-UV1Z
AHS-V



Approvals



Replacement actuator: 3918350737

Replacement actuator: 3918360738

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

