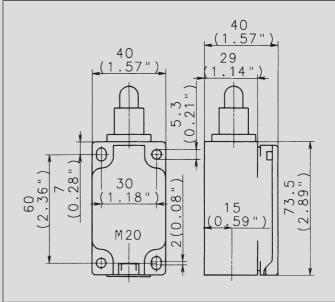
# **Insulation-Enclosed Limit Switches**

## **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 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**

Rated insulation voltage	U <sub>i</sub> max.	400 V AC
Conventional thermal current (up to) 10	I <sub>the</sub>	10 A
Rated operating voltage	U <sub>e</sub> max.	240 V
Utilisation category		AC-15, U <sub>e</sub> /I <sub>e</sub> 240 V/3 A
Short-circuit protection (up to) <sup>①</sup>		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 <sup>6</sup> switching cycles	
B10d (up to) 10	20 Mio.	
Switching frequency	≤ 100/min.	
Type of connection	Screw connections	
Conductor cross sections	Single-wire 0.5 – 1.5 mm <sup>2</sup> or Stranded wire with ferrule 0.5 – 1.5 mm <sup>2</sup>	
Cable entry	$1 \times M20 \times 1.5 \approx 0.15 \text{ kg}$	
Protection class	IP 65 onforming to EN 60529; DIN VDE 0470	
Standards		

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



# IW (Form B) RIW (Form C) (0.63") Ø10 (0.39") 104 116 (4.57") $\bigcirc$ **Switching operation** Slow-action **Snap-action** Slow-action **Snap-action** 6081102001 6081152007 6081117002 6081167008 ⊕-2.3 ⊕-2.3 1 NC / 1 NO contact ENK-U1Z IW ENK-SU1Z IW ENK-U1Z RIW **ENK-SU1Z RIW** 6081817281 😊 2 NC contacts **ENK-A2Z RIW** 2 NO contacts 1 NC / 1 NO contact 6081317307 Overlapping ENK-UV1Z RIW **(1)** $\left( U_{L}\right)$ (W) **(1)** $(U_L)$ ((() **Approvals** Replacement actuator: 3918170661 Replacement actuator: 3918020660 Special features / variants Special features / variants (on request) (on request) Available with black enclosure • Available for high temperature and following contacts: range and following contacts: 3 NC contacts 3 NC contacts

# AHS-V (Form A) **Switching operation** Slow-action **Snap-action** Slow-action **Snap-action** 6081185009 6081186018 6081136012 1 NC / 1 NO contact ENK-SU1Z ENK-U1 AV ENK-SU1 AV AHS-V 6081835323 $\ominus$ -ENK-A2Z AHS-V 2 NC contacts 2 NO contacts 6081335006 1 NC / 1 NO contact ENK-UV1Z Overlapping AHS-V **(1)** $\left( U_{L}\right)$ 1 (W) $(U_{\underline{L}})$ (W) **Approvals** Replacement actuator: 3918350737 Replacement actuator: 3918360738 Special features / variants Special features / variants (on request) (on request) • Available with different lever lengths • Available with black enclosure and roller diameters • With 50 mm diameter rubber roller and following contacts: • With 50 mm diameter rubber roller 3 NC contacts With roller over switch



