

Model Number

NBN40-U1-Z2

Features

- **Sensor head bidirectional and rotatable**
- **40 mm non-flush**
- **2-wire DC**
- **2 LEDs indicator for 360° visibility**

Accessories

V1-M20-80
Receptacles, M12/M20; plastic version

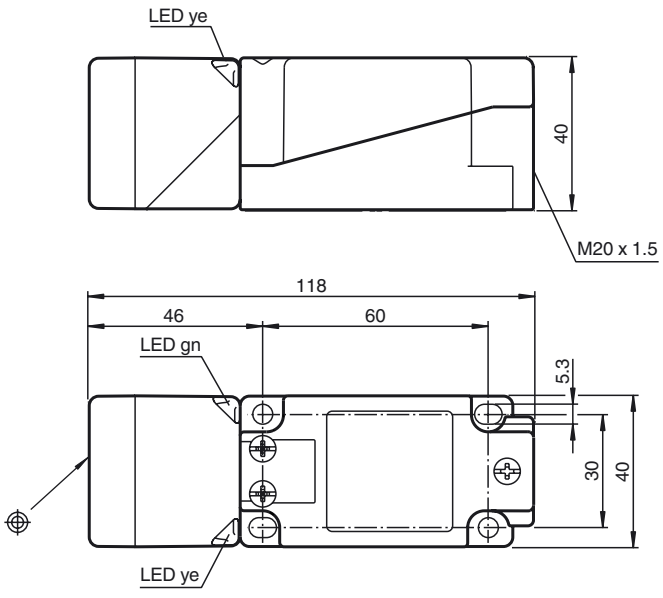
MHW 01
Modular mounting bracket

MH 04-2681F
Mounting aid for VariKont, +U1+ and +U9*

Technical Data

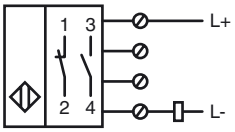
General specifications		
Switching element function		DC NO/NC
Rated operating distance	s_n	40 mm
Installation		non-flush
Output polarity		DC
Assured operating distance	s_a	0 ... 32.4 mm
Actual operating distance	s_r	36 ... 44 mm
Reduction factor r_{Al}		0.3
Reduction factor r_{Cu}		0.3
Reduction factor r_{304}		0.7
Nominal ratings		
Operating voltage	U_B	5 ... 60 V DC
Switching frequency	f	0 ... 100 Hz
Hysteresis	H	typ. 5 %
Reverse polarity protection		reverse polarity tolerant
Short-circuit protection		yes
Voltage drop	U_d	≤ 5 V
Voltage drop at I_L		
Voltage drop I_L = 100 mA, switching element on U_d		... 5 V
Operating current	I_L	2 ... 200 mA
Off-state current	I_r	0 ... 0.5 mA
Switching state indicator		2 LED, yellow
Functional safety related parameters		
$MTTF_d$		1170 a
Mission Time (T_M)		20 a
Diagnostic Coverage (DC)		0 %
Ambient conditions		
Ambient temperature		-25 ... 85 °C (-13 ... 185 °F)
Mechanical specifications		
Connection type		screw terminals
Information for connection		A maximum of two conductors with the same core cross-section may be mounted on one terminal connection! tightening torque 1.2 Nm + 10 %
Core cross-section		up to 2.5 mm^2
Minimum core cross-section		without wire end ferrule 0.5 mm^2 , with connector sleeves 0.34 mm^2
Maximum core cross-section		without wire end ferrule 2.5 mm^2 , with connector sleeves 1.5 mm^2
Housing material		PA/metal with epoxy powder coating
Sensing face		PA
Housing base		plastic
Degree of protection		IP68 / IP69K
Mass		225 g
Note		Tightening torque: 1.8 Nm (housing)
Compliance with standards and directives		
Standard conformity		
Standards		EN 60947-5-2:2007 IEC 60947-5-2:2007
Approvals and certificates		
UL approval		cULus Listed, General Purpose
CSA approval		cCSAus Listed, General Purpose
CCC approval		Certified by China Compulsory Certification (CCC)

Dimensions



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Electrical Connection



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