



Model Number

NBN8-18GM40-Z3-V1

Features

- **Basic series**
- **8 mm non-flush**
- **2-wire DC**

Accessories

BF 18-F

Mounting flange with dead stop, 18 mm

V1-W

Female connector, M12, 4-pin, field attachable

V1-G-2M-PUR

Female cordset, M12, 4-pin, PUR cable

V1-W-2M-PUR

Female cordset, M12, 4-pin, PUR cable

Technical Data

General specifications

Switching function	Normally open (NO)
Output type	Two-wire
Rated operating distance	s_n 8 mm
Installation	non-flush
Output polarity	DC
Assured operating distance	s_a 0 ... 6.5 mm
Actual operating distance	s_r 7.2 ... 8.8 mm typ. 8 mm
Reduction factor r_{Al}	0.43
Reduction factor r_{Cu}	0.42
Reduction factor r_{304}	0.73
Output type	2-wire

Nominal ratings

Operating voltage	U_B 5 ... 60 V
Switching frequency	f 0 ... 450 Hz
Hysteresis	H 1 ... 10 typ. 5 %
Reverse polarity protection	reverse polarity tolerant
Short-circuit protection	pulsing
Voltage drop	U_d ≤ 5 V
Operating current	I_L 2 ... 100 mA
Lowest operating current	I_m 2 mA
Off-state current	I_r 0 ... 0.5 mA typ.
Switching state indicator	Multihole-LED, yellow

Functional safety related parameters

MTTF _d	1694 a
Mission Time (T_M)	20 a
Diagnostic Coverage (DC)	0 %

Ambient conditions

Ambient temperature	-25 ... 70 °C (-13 ... 158 °F)
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Mechanical specifications

Connection type	Connector M12 x 1, 4-pin
Housing material	brass, nickel-plated
Sensing face	PBT
Degree of protection	IP67

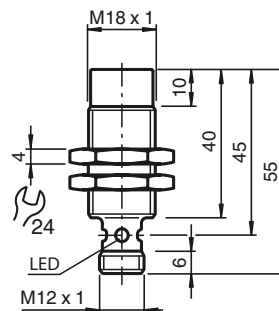
Compliance with standards and directives

Standard conformity	
Standards	EN 60947-5-2:2007 IEC 60947-5-2:2007

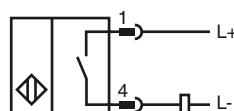
Approvals and certificates

UL approval	cULus Listed, General Purpose
CSA approval	cCSAus Listed, General Purpose
CCC approval	Certified by China Compulsory Certification (CCC)

Dimensions



Electrical Connection





Pinout



Wire colors in accordance with EN 60947-5-2

1	BN	(brown)
2	WH	(white)
3	BU	(blue)
4	BK	(black)