



Model Number

NBB2-12GM40-Z0

Features

- 2 mm flush
- 2-wire DC

Accessories

BF 12

Mounting flange, 12 mm

EXG-12

Quick mounting bracket with dead stop

Technical Data

General specifications

Switching function	Normally open (NO)
Output type	Two-wire
Rated operating distance	s_n 2 mm
Installation	flush
Output polarity	DC
Assured operating distance	s_a 0 ... 1.62 mm
Actual operating distance	s_r 1.8 ... 2.2 mm typ.
Reduction factor r_{Al}	0.18
Reduction factor r_{Cu}	0.12
Reduction factor r_{304}	0.67
Output type	2-wire

Nominal ratings

Operating voltage	U_B	5 ... 60 V
Switching frequency	f	0 ... 1000 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		all direction LED, yellow

Functional safety related parameters

MTTF _d	2250 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	cable PVC, 2 m
Core cross-section	0.14 mm ²
Housing material	brass, nickel-plated
Sensing face	PBT
Degree of protection	IP67
Cable	
Cable diameter	3 mm ± 0.2 mm
Bending radius	> 10 x cable diameter

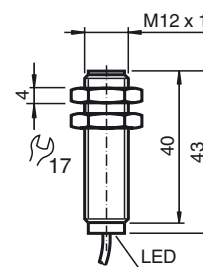
Compliance with standards and directives

Standard conformity	
Standards	EN 60947-5-2:2007 EN 60947-5-2/A1:2012 IEC 60947-5-2:2007 IEC 60947-5-2 AMD 1:2012

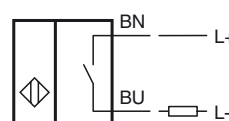
Approvals and certificates

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

Dimensions



Electrical Connection





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