



Model Number

NBB10-30GM50-E2-5M

Features

- **Extended Range**
- **Operating distance 10 mm**
- **3-wire DC**

Accessories

BF 30

Mounting flange, 30 mm

EXG-30

Quick mounting bracket with dead stop

Technical Data

General specifications

Switching function	Normally open (NO)
Output type	PNP
Rated operating distance	s_n 10 mm
Installation	flush
Output polarity	DC
Assured operating distance	s_a 0 ... 8.1 mm
Reduction factor r_{AI}	0.3
Reduction factor r_{Cu}	0.3
Reduction factor r_{304}	0.8

Nominal ratings

Operating voltage	U_B 10 ... 30 V
Switching frequency	f 0 ... 200 Hz
Hysteresis	H typ. 5 %
Reverse polarity protection	yes
Short-circuit protection	yes
Voltage drop	U_d \leq 3 V
Operating current	I_L 0 ... 200 mA
Off-state current	I_r 0 ... 0.5 mA typ. 0.1 μ A at 25 °C
No-load supply current	I_0 \leq 20 mA
Switching state indicator	all direction LED, yellow

Functional safety related parameters

MTTF _d	2060 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, 5 m
Core cross-section	0.34 mm ²
Housing material	brass, nickel-plated
Sensing face	PBT
Degree of protection	IP67

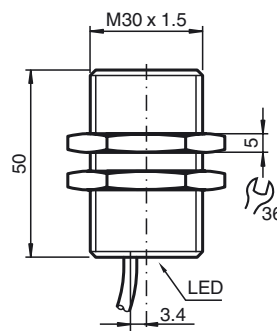
Compliance with standards and directives

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	CCC approval / marking not required for products rated \leq 36 V

Dimensions



Electrical Connection

