



Model Number

NBB10-30GM50-E2

Features

- Basic series
- 10 mm flush

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
Output type	3-wire

Nominal ratings

Operating voltage	U_B 10 ... 30 V
Switching frequency	f 0 ... 200 Hz
Hysteresis	H typ. 5%
Reverse polarity protection	reverse polarity protected
Short-circuit protection	pulsing
Voltage drop	U_d ≤ 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 ≤ 20 mA
Switching state indicator	all direction LED, yellow

Functional safety related parameters

MTTF _d	2062 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	0.34 mm ²
Housing material	brass, nickel-plated
Sensing face	PBT
Degree of protection	IP67
Cable	
Cable diameter	4.6 mm $\pm$ 0.2 mm
Bending radius	> 10 x cable diameter

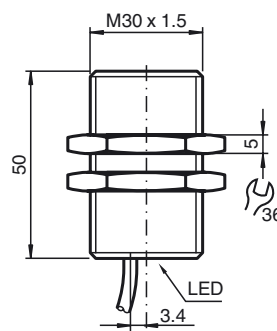
Compliance with standards and directives

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	CCC approval / marking not required for products rated ≤ 36 V

Dimensions



Electrical Connection

