



Model Number

NBB10-30GM50-E0-Y70117712

Features

- 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	NPN
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 ≤ 10 μ A
No-load supply current	I_0 ≤ 20 mA
Switching state indicator	all direction LED, yellow

Functional safety related parameters

MTTF _d	1374 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	fixed cable with plug
Housing material	brass, nickel-plated
Sensing face	PBT
Degree of protection	IP67
Connector	
Number of pins	3
Connection assembly	Deutsch housing DT04-3P-C015 Deutsch contact 1060-16-0622 Deutsch wedge W3P

Cable

Material	PVC
Color	grey
Number of cores	3
Core cross-section	0.5 mm ²
Length	L 120 mm

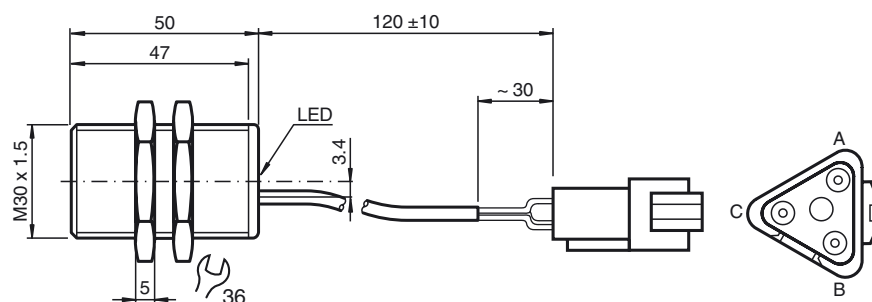
Compliance with standards and directives

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	UL Recognized, class 2
CCC approval	CCC approval / marking not required for products rated ≤ 36 V

Dimensions



**Electrical Connection**