



Model Number

NBB10-30GK50-E2-15M

Features

- With increased sealing, protection class IP68 / IP69K

Accessories

BF 30

Mounting flange, 30 mm

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
Reverse polarity protection	reverse polarity protected
Short-circuit protection	pulsing
Voltage drop	U_d ≤ 3 V
Operating current	I_L 0 ... 200 mA
No-load supply current	I_0 ≤ 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, 15 m
Core cross-section	0.34 mm ²
Housing material	PBT
Sensing face	PBT
Degree of protection	IP68 / IP69K
Note	use only delivered nuts

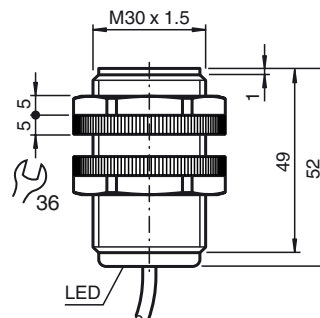
Compliance with standards and directives

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

