

Inductive sensor

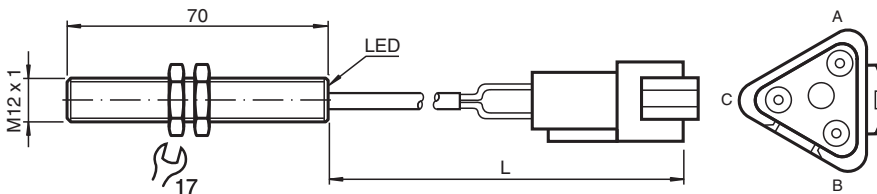
NBB4-12GM70-E2-Y285691



- 4 mm flush
- Extended temperature range
- Raised EMC resistance 30 V/m
- Switching output with integrated load resistance
- Datasheet values are changed only in consultation with the company Crown



Dimensions



Technical Data

General specifications		
Switching function		Normally open (NO)
Output type		PNP
Rated operating distance	s_n	4 mm
Installation		flush
Output polarity		DC
Assured operating distance	s_a	0 ... 3.24 mm
Reduction factor r_{AI}		0.45
Reduction factor r_{Cu}		0.35
Reduction factor r_{304}		0.75
Output type		3-wire
Nominal ratings		
Operating voltage	U_B	5 ... 60 V
Switching frequency	f	0 ... 2500 Hz
Hysteresis	H	typ. 5 %
Reverse polarity protection		reverse polarity protected

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Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

Pepperl+Fuchs Group
www.pepperl-fuchs.com

USA: +1 330 486 0001
fa-info@us.pepperl-fuchs.com

Germany: +49 621 776 1111
fa-info@de.pepperl-fuchs.com

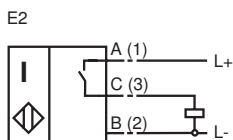
Singapore: +65 6779 9091
fa-info@sg.pepperl-fuchs.com

PEPPERL+FUCHS

Technical Data

Short-circuit protection		pulsing
Voltage drop	U_d	$\leq 2 \text{ V}$
Operating current	I_L	0 ... 150 mA
Off-state current	I_r	0 ... 0.5 mA typ. 0.1 μA
No-load supply current	I_0	$\leq 7 \text{ mA}$
Time delay before availability	t_v	$\leq 200 \text{ ms}$
Switching state indicator		LED, yellow
Functional safety related parameters		
MTTF _d		1183 a
Mission Time (T_M)		20 a
Diagnostic Coverage (DC)		0 %
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 EN 12895: 2015
Approvals and certificates		
UL approval		cULus Listed, General Purpose Class 2 power source
CSA approval		cCSAus Listed, General Purpose Class 2 power source
CCC approval		Certified by China Compulsory Certification (CCC)
Ambient conditions		
Ambient temperature		-40 ... 100 °C (-40 ... 212 °F)
Mechanical specifications		
Connection type		Cable connector , Deutsch with PUR cable , 740 mm
Connection assembly		Deutsch housing DT04-3P-C015 Deutsch wedge W3P Deutsch contact 1060-16-0622
Core cross-section		3 x 0.75 mm ²
Housing material		brass, nickel-plated
Sensing face		PBT
Degree of protection		IP69K, not connector!
Mass		72 g

Connection



Accessories

	EXG-12	Quick mounting bracket with dead stop
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