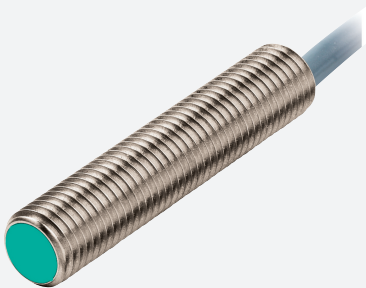


Inductive sensor

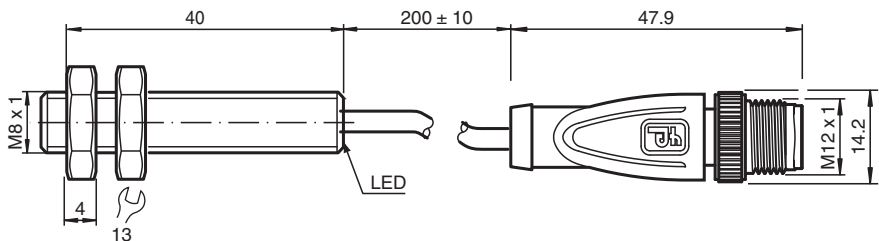
NBB2-8GM40-E2-0,2M-PUR-V1



- 2 mm flush
- Increased operating distance
- Extended temperature range
-40 ... +85 °C



Dimensions



Technical Data

General specifications		
Switching function		Normally open (NO)
Output type		PNP
Rated operating distance	s_n	2 mm
Installation		flush
Output polarity		DC
Assured operating distance	s_a	0 ... 1.62 mm
Actuating element		mild steel, e. g. 1.0037, SR235JR (formerly St37-2) 8 mm x 8 mm x 1 mm
Reduction factor r_{Al}		0.4
Reduction factor r_{Cu}		0.3
Reduction factor r_{304}		0.75
Reduction factor r_{Brass}		0.5
Output type		3-wire
Nominal ratings		
Operating voltage	U_B	5 ... 30 V
Switching frequency	f	0 ... 6000 Hz

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

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PEPPERL+FUCHS

Technical Data

Hysteresis	H	typ. 5%
Reverse polarity protection		reverse polarity protected
Short-circuit protection		pulsing
Voltage drop	U _d	≤ 1.5 V
Operating current	I _L	0 ... 100 mA
Off-state current	I _r	0 ... 0.2 mA
No-load supply current	I ₀	≤ 10 mA
Time delay before availability	t _v	≤ 100 ms
Switching state indicator		LED, yellow

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, Class 2 Power Source
CCC approval		CCC approval / marking not required for products rated ≤36 V

Ambient conditions

Ambient temperature		-40 ... 85 °C (-40 ... 185 °F)
Storage temperature		-40 ... 85 °C (-40 ... 185 °F)

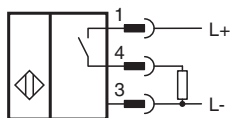
Mechanical specifications

Connection type		Connector plug M12 x 1 , 4-pin with PUR cable 200 mm
Core cross-section		0.14 mm ²
Housing material		brass, nickel-plated
Sensing face		LCP
Degree of protection		IP67

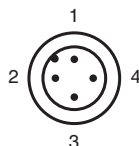
General information

Scope of delivery		2 hex nuts included
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Connection



Connection Assignment



Wire colors in accordance with EN 60947-5-2

1	BN	(brown)
2	WH	(white)
3	BU	(blue)
4	BK	(black)

Accessories

	BF 8	Mounting flange, 8 mm
	EXG-08	Quick mounting bracket with dead stop

Release date: 2020-03-24 Date of issue: 2020-03-30 Filename: 304615-0217_eng.pdf