

Inductive sensor

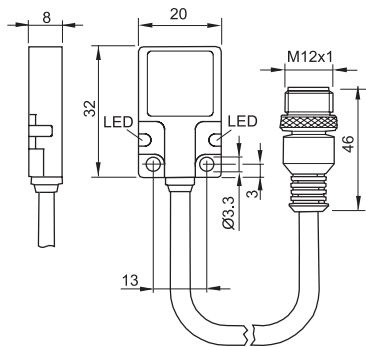
NBB5-F104M-E2-C-200MM-V1



- 5 mm flush
- 3-wire DC
- Weld Immune
- Metal housing



Dimensions



Technical Data

General specifications

Switching function		Normally open (NO)
Output type		PNP
Rated operating distance	s_n	5 mm
Installation		flush
Output polarity		DC
Assured operating distance	s_a	0 ... 4 mm
Reduction factor r_{AI}		0.30 - 0.45
Reduction factor r_{Cu}		0.25 - 0.45
Reduction factor r_{304}		0.60 - 1.00
Reduction factor r_{Si37}		1
Output type		3-wire

Nominal ratings

Operating voltage	U_B	10 ... 30 V DC
Switching frequency	f	100 Hz
Hysteresis	H	typ. 5%
Reverse polarity protection		reverse polarity protected
Short-circuit protection		pulsing
Voltage drop	U_d	≤ 2.5 V

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

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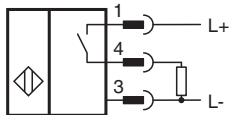
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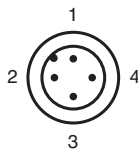
Technical Data

Operating current	I_L	200 mA
Off-state current	I_r	$\leq 80 \mu A$
No-load supply current	I_0	$\leq 15 \text{ mA}$
Switching state indicator		LED
Compliance with standards and directives		
Standard conformity		
Standards		IEC / EN 60947-5-2:2004
Approvals and certificates		
UL approval		cULus Listed, General Purpose
CCC approval		CCC approval / marking not required for products rated $\leq 36 \text{ V}$
Ambient conditions		
Ambient temperature		$-25 \dots 70 \text{ }^\circ\text{C}$ ($-13 \dots 158 \text{ }^\circ\text{F}$)
Mechanical specifications		
Connection type		Cable connector M12 x 1 , 4-pin with PUR Cable, 200 mm
Core cross section		0.25 mm^2
Housing material		GD-Zn
Sensing face		PA 12
Degree of protection		IP67

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

	V1-G-OR2M-POC	Female cordset single-ended M12 straight A-coded, 4-pin, POC cable welding-bead resistant orange, suitable for robotic applications, torsion resistant, oil resistant, molecularly cross-linked
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