

Inductive sensor

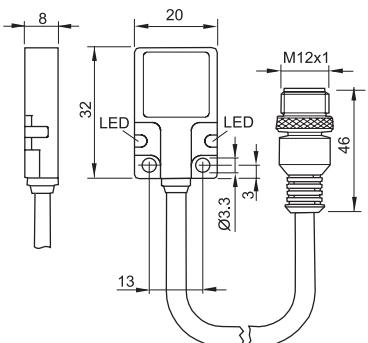
NBB5-F104M-E2-C-200MM-V1



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



Dimensions



Technical Data

Release date: 2022-07-13 Date of issue: 2022-07-13 Filename: 909686_eng.pdf

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_{St37}	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

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

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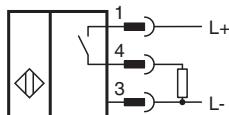
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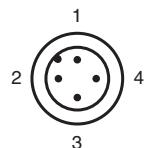
Technical Data

Operating current	I_L	200 mA
Off-state current	I_r	$\leq 80 \mu\text{A}$
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	$-25 \dots 70^\circ\text{C}$ ($-13 \dots 158^\circ\text{F}$)	
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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