



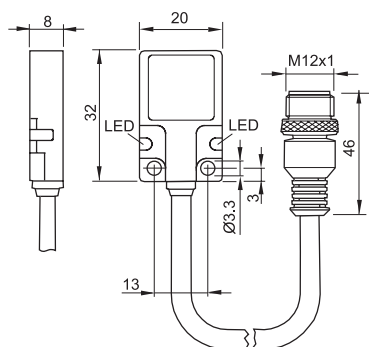
## Inductive sensor

NBB7-F104M-A2-200MM-V1

- 7 mm flush
- 4-wire DC
- Metal housing



## Dimensions



## Technical Data

### General specifications

Switching function		complementary
Output type		PNP
Rated operating distance	$s_n$	7 mm
Installation		flush
Output polarity		DC
Assured operating distance	$s_a$	0 ... 5.6 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		4-wire

### Nominal ratings

Operating voltage	$U_B$	10 ... 30 V DC
Switching frequency	$f$	150 Hz
Reverse polarity protection		reverse polarity protected
Short-circuit protection		pulsing
Voltage drop	$U_d$	$\leq 2.5$ V
Operating current	$I_L$	200 mA

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

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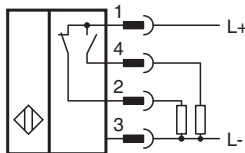
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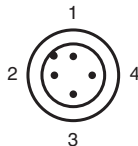
Technical Data

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		$0.14\ \text{mm}^2$
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-BK2M-PVC-U	Female cordset single-ended M12 straight A-coded, 4-pin, PVC cable black, UL approved
	V1-W-BK2M-PVC-U	Female cordset single-ended M12 angled A-coded, 4-pin, PVC cable black, UL approved

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