

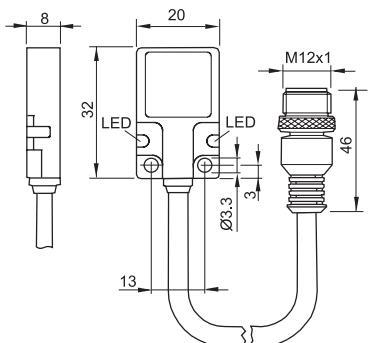
## Inductive sensor

### NBB7-F104M-A2-200MM-V1

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



#### Dimensions



#### Technical Data

Release date: 2022-07-13 Date of issue: 2022-07-13 Filename: 909688\_eng.pdf

##### 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 $r_{St37}$	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

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

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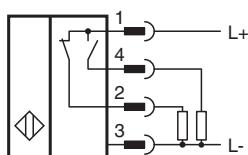
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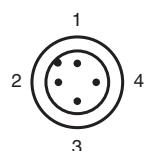
## Technical Data

Off-state current	$I_r$	$\leq 80 \mu\text{A}$
No-load supply current	$I_0$	$\leq 15 \text{ mA}$
Switching state indicator		LED
<b>Compliance with standards and directives</b>		
Standard conformity		IEC / EN 60947-5-2:2004
<b>Approvals and certificates</b>		
UL approval		cULus Listed, General Purpose
CCC approval		CCC approval / marking not required for products rated $\leq 36 \text{ V}$
<b>Ambient conditions</b>		
Ambient temperature		-25 ... 70 °C (-13 ... 158 °F)
<b>Mechanical specifications</b>		
Connection type		Cable connector M12 x 1 , 4-pin with PUR cable 200 mm
Core cross section		0.14 mm <sup>2</sup>
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

	<b>V1-G-BK2M-PVC-U</b>	Female cordset single-ended M12 straight A-coded, 4-pin, PVC cable black, UL approved
	<b>V1-W-BK2M-PVC-U</b>	Female cordset single-ended M12 angled A-coded, 4-pin, PVC cable black, UL approved