

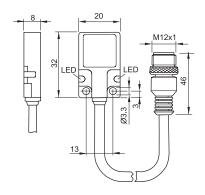
## Inductive sensor

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

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



#### **Dimensions**



## **Technical Data**

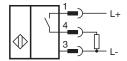
**General specifications** 

•		
Switching function		Normally open (NO)
Output type		PNP
Rated operating distance	s <sub>n</sub>	5 mm
Installation		flush
Output polarity		DC
Assured operating distance	Sa	0 4 mm
Reduction factor r <sub>Al</sub>		0.30 - 0.45
Reduction factor r <sub>Cu</sub>		0.25 - 0.45
Reduction factor r <sub>304</sub>		0.60 - 1.00
Reduction factor r <sub>St37</sub>		1
Output type		3-wire
Nominal ratings		
Operating voltage	$U_B$	10 30 V DC
Switching frequency	f	100 Hz
Hysteresis	Н	typ. 5%
Reverse polarity protection		reverse polarity protected
Short-circuit protection		pulsing
Voltage drop	$U_{d}$	≤ 2.5 V

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Technical Data		
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Operating current	IL.	200 mA
Off-state current	l <sub>r</sub>	≤ 80 µA
No-load supply current	$I_0$	≤ 15 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 ≤36 V
Ambient conditions		
Ambient temperature		-25 70 °C (-13 158 °F)
Mechanical specifications		
Connection type		Cable connector M12 x 1, 4-pin with PUR Cable, 200 mm
Core cross section		$0.25 \text{ mm}^2$
Housing material		GD-Zn
Sensing face		PA 12
Degree of protection		IP67

#### Connection



# **Connection Assignment**



Wire colors in accordance with EN 60947-5-2

BN (brown) 2 WH (white) 3 4 BU (blue) 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