

# Inductive sensor

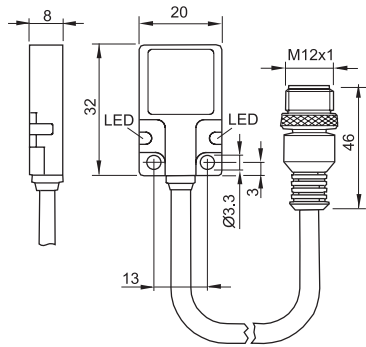
## NBB7-F104M-A2-200MM-V1



- 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 $r_{Al}$		0.30 - 0.45
Reduction factor $r_{Cu}$		0.25 - 0.45
Reduction factor $r_{304}$		0.60 - 1.00
Reduction factor $r_{S137}$		1
Output type		4-wire

#### Nominal ratings

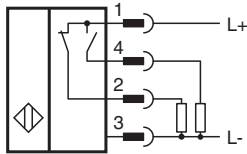
Operating voltage	$U_B$	10 ... 30 V DC
Switching frequency	$f$	150 Hz
Reverse polarity protection		reverse polarity protected
Short-circuit protection		pulsing
Voltage drop	$U_d$	$\leq 2.5$ V
Operating current	$I_L$	200 mA
Off-state current	$I_r$	$\leq 80$ $\mu$ A

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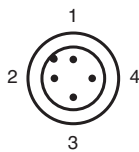
## Technical Data

No-load supply current	$I_0$	$\leq 15 \text{ mA}$
Switching state indicator		LED
<b>Compliance with standards and directives</b>		
Standard conformity		
Standards		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		$-25 \dots 70 \text{ }^\circ\text{C}$ ( $-13 \dots 158 \text{ }^\circ\text{F}$ )
<b>Mechanical specifications</b>		
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
Dimensions		
Height		8 mm
Width		20 mm
Length		32 mm

## Connection



## Connection Assignment



Wire colors in accordance with EN 60947-5-2

1	BN	(brown)
2	WH	(white)
3	BU	(blue)
4	BK	(black)