

# Inductive sensor

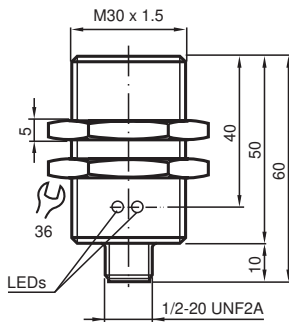
## NBB10-30GM50-WO-V12



- Basic series
- 10 mm flush
- 2-wire AC



### Dimensions



### Technical Data

#### General specifications

Switching function		Normally closed (NC)
Output type		Two-wire
Rated operating distance	$s_n$	10 mm
Installation		flush
Output polarity		AC
Assured operating distance	$s_a$	0 ... 8.1 mm
Actual operating distance	$s_r$	9 ... 11 mm
Reduction factor $r_{Al}$		0.33
Reduction factor $r_{Cu}$		0.28
Reduction factor $r_{304}$		0.81
Output type		2-wire

#### Nominal ratings

Operating voltage	$U_B$	20 ... 253 V
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Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

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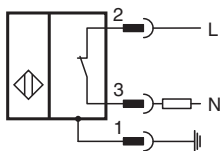
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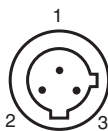
**Technical Data**

Switching frequency	f	0 ... 20 Hz
Hysteresis	H	typ. 5 %
Reverse polarity protection		reverse polarity tolerant
Voltage drop	U <sub>d</sub>	< 5 V (I <sub>L</sub> > 50 mA); < 8 V (I <sub>L</sub> < 50 mA)
Momentary current (20 ms, 0.1 Hz)		0 ... 1600 mA
Operating current	I <sub>L</sub>	5 ... 200 mA
Off-state current	I <sub>r</sub>	0 ... 1.7 mA
Operating voltage indicator		LED, green
Switching state indicator		LED, yellow
<b>Compliance with standards and directives</b>		
Standard conformity		
Standards		EN 60947-5-2:2007 IEC 60947-5-2:2007
<b>Approvals and certificates</b>		
UL approval		cULus Listed, General Purpose
CSA approval		cCSAus Listed, General Purpose
CCC approval		Certified by China Compulsory Certification (CCC)
<b>Ambient conditions</b>		
Ambient temperature		-25 ... 70 °C (-13 ... 158 °F)
<b>Mechanical specifications</b>		
Connection type		Connector plug 1/2"-20 UN , 3-pin
Housing material		brass, nickel-plated
Sensing face		PBT
Degree of protection		IP67
Note		1) In the temperature range below 0 °C, permissible operating voltage U <sub>b</sub> 80...253 V Safety fuse ≤ 0.8 A (quick-blow) according to IEC 60127-2 Sheet 1 Recommendation: after a short circuit, check that the device is functioning correctly.

**Connection**



**Connection Assignment**





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## Connection Assignment

Wire colors

1	GN	(green)
2	RD/BK	(red/black)
3	RD/WH	(red/white)

## Accessories

	<b>BF 30</b>	Mounting flange, 30 mm
	<b>V12-G-YE2M-PVC</b>	Connecting cable, 1/2" - 20 UNF, 3-pin, PVC cable

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