

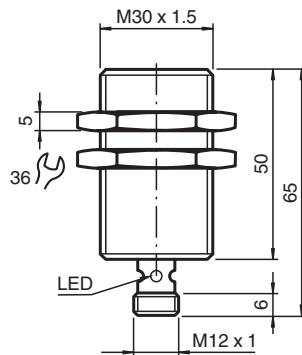


## Inductive sensor NBB10-30GM50-E2-C-V1

- 10 mm flush
- Weld Immune
- Slag repellent coatings



### Dimensions



### Technical Data

Release date: 2024-05-28 Date of issue: 2024-06-02 Filename: 904406\_eng.pdf

#### General specifications

Switching function	Normally open (NO)	
Output type		PNP
Rated operating distance	$s_n$	10 mm
Installation		flush
Output polarity		DC
Assured operating distance	$s_a$	0 ... 8.1 mm
Reduction factor $r_{AI}$		0.3
Reduction factor $r_{Cu}$		0.2
Reduction factor $r_{304}$		0.6
Output type		3-wire

#### Nominal ratings

Operating voltage	$U_B$	10 ... 30 V DC
Switching frequency	$f$	0 ... 10 Hz
Hysteresis	$H$	typ. 5%
Reverse polarity protection		reverse polarity protected
Short-circuit protection		pulsing
Voltage drop	$U_d$	$\leq 3$ V
Operating current	$I_L$	0 ... 200 mA
Off-state current	$I_r$	0 ... 0.5 mA typ. 0.1 $\mu$ A at 25 °C
No-load supply current	$I_0$	$\leq 17$ mA

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

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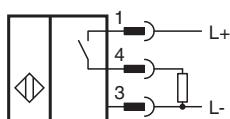
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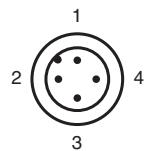
## Technical Data

Constant magnetic field	B	100 mT
Alternating magnetic field	B	100 mT
Switching state indicator	Multihole-LED, yellow	
<b>Functional safety related parameters</b>		
MTTF <sub>d</sub>		1835 a
Mission Time (T <sub>M</sub> )		20 a
Diagnostic Coverage (DC)		0 %
<b>Indicators/operating means</b>		
Operation indicator		4-way dual LED Green: power Yellow: output
<b>Compliance with standards and directives</b>		
Standard conformity		
Standards		EN IEC 60947-5-2
<b>Approvals and certificates</b>		
UL approval		cULus Listed, General Purpose
CCC approval		CCC approval / marking not required for products rated ≤36 V
<b>Ambient conditions</b>		
Ambient temperature		-25 ... 70 °C (-13 ... 158 °F)
<b>Mechanical specifications</b>		
Connection type		Connector plug M12 x 1 , 4-pin
Core cross section		-
Housing material		Brass, PTFE coated
Sensing face		PPS
Degree of protection		IP67
Dimensions		
Length		50 mm
Diameter		30 mm

## Connection



## Connection Assignment



## Connection Assignment

Wire colors in accordance with EN 60947-5-2

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