



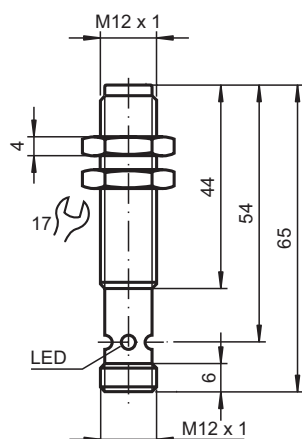
Inductive sensor

NMB5-12GM65-E2-C-V1

- 5 mm flush
- Stainless steel sensing face
- Increased operating distance
- Weld Immune



Dimensions



Technical Data

General specifications

Switching function		Normally open (NO)
Output type		PNP
Rated operating distance	s_n	5 mm
Installation		flush (Requirements: see drawing below)
Output polarity		DC
Assured operating distance	s_a	0 ... 4.05 mm
Actuating element		Ferrous and nonferrous targets
Reduction factor r_{Al}		0.3
Reduction factor r_{Cu}		0.2
Reduction factor r_{304}		0.85
Reduction factor r_{Si37}		1

Nominal ratings

Operating voltage	U_B	10 ... 30 V DC
Switching frequency	f	0 ... 5 Hz
Hysteresis	H	3 ... 15 typ. 5 %
Reverse polarity protection		reverse polarity protected
Short-circuit protection		pulsing
Voltage drop	U_d	≤ 2 V

Release date: 2020-03-23 Date of issue: 2020-03-30 Filename: 911268_eng.pdf

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

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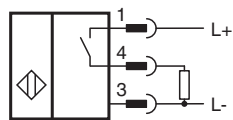
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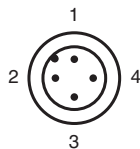
Technical Data

Operating current	I_L	$\leq 200\text{ mA}$
Current consumption		$\leq 10\text{ mA}$
Off-state current	I_r	$\leq 10\text{ }\mu\text{A}$
No-load supply current	I_0	$\leq 15\text{ mA}$
Operating voltage indicator		LED, green
Switching state indicator		Multihole-LED, yellow
Mag. Field strength, AC fields		250 mT
Mag. Field strength, DC fields		250 mT
Compliance with standards and directives		
Standard conformity		
Standards		EN 60947-5-2:2007 IEC 60947-5-2:2007
Approvals and certificates		
UL approval		cULus Listed, General Purpose
CSA approval		cCSAus Listed, General Purpose
CCC approval		CCC approval / marking not required for products rated $\leq 36\text{ V}$
Ambient conditions		
Ambient temperature		$-25 \dots 70\text{ }^\circ\text{C}$ ($-13 \dots 158\text{ }^\circ\text{F}$)
Mechanical specifications		
Connection type		Connector M12 x 1 , 4-pin
Housing material		Xylan coated - Stainless steel 1.4305 / AISI 303
Sensing face		Xylan coated - Stainless steel 1.4305 / AISI 303
Degree of protection		IP67 / IP68 / IP69K - cordset dependent according to cable specification

Connection



Connection Assignment

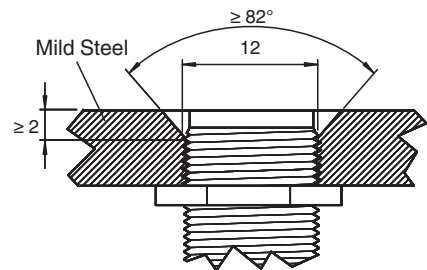


Wire colors in accordance with EN 60947-5-2

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

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Mounting



Sensor face is flush with mounting surface.

Accessories

	BF 12	Mounting flange, 12 mm
	AB-12	Mounting aid
	V1-G-OR2M-POC	Female cordset single-ended M12 A-coded 4-pin, TPE cable welding-bead resistant orange