

Inductive sensor

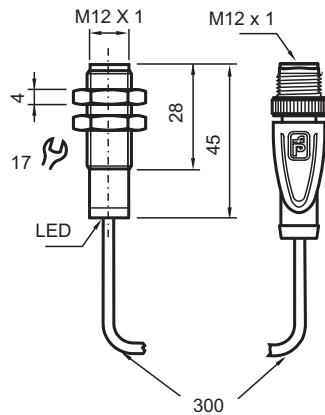
NMB5-12GM45-Z9-C4-300MM-V1



- 5 mm flush
- Stainless steel sensing face
- 2-wire DC
- Weld field immune
- Weld slag resistant coating
- Pigtail quick disconnect



Dimensions



Technical Data

General specifications

Switching function		Normally open (NO)
Output type		Two-wire
Rated operating distance	s_n	5 mm
Installation		flush
Output polarity		DC
Assured operating distance	s_a	0 ... 4.05 mm

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

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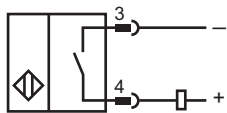
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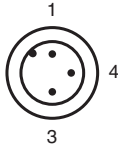
PF PEPPERL+FUCHS

Technical Data

Actuating element	Ferrous and nonferrous targets	
Reduction factor r_{Al}		0.4
Reduction factor r_{Cu}		0
Reduction factor r_{304}		0.8
Reduction factor r_{St37}		1
Reduction factor r_{Brass}		0
Output type	2-wire	
Nominal ratings		
Operating voltage	U_B	6 ... 30 V DC
Switching frequency	f	1 Hz
Hysteresis	H	3 ... 15 typ. 5 %
Reverse polarity protection		reverse polarity-conductive
Short-circuit protection		pulsing
Voltage drop	U_d	< 3 V DC
Operating current	I_L	2 ... 100 mA
Off-state current	I_r	< 500 μ A
Switching state indicator		LED, red
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 EN 60947-5-2/A1:2012 IEC 60947-5-2:2007 IEC 60947-5-2 AMD 1:2012
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 ≤ 36 V
Ambient conditions		
Ambient temperature		-25 ... 70 °C (-13 ... 158 °F)
Mechanical specifications		
Connection type		300 mm POC cable with 3-pin , M12 x 1 connector
Core cross section		0.34 mm ²
Housing material		Xylan coated - Stainless steel 1.4305 / AISI 303
Sensing face		Xylan coated - Stainless steel 1.4305 / AISI 303
Degree of protection		IP67

Connection

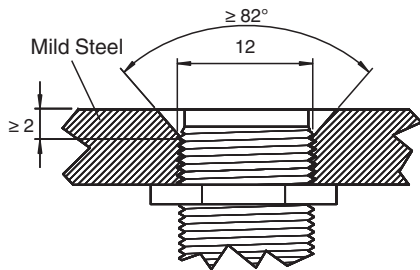




Wire colors in accordance with EN 60947-5-2



1	BN	(brown)
3	BU	(blue)
4	BK	(black)

Mounting



Sensor face is flush with mounting surface.

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
	AB-12	Mounting aid

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