

Inductive sensor

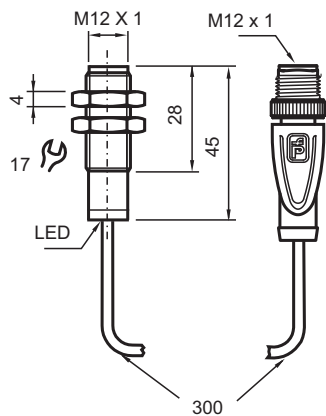
NMB5-12GM45-Z4-C4-300MM-V1



- 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

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

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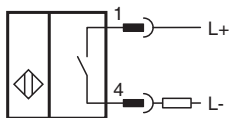
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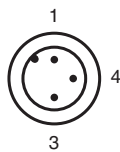
Technical Data

Assured operating distance	s_a	0 ... 4.05 mm
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_{317}		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 μA
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



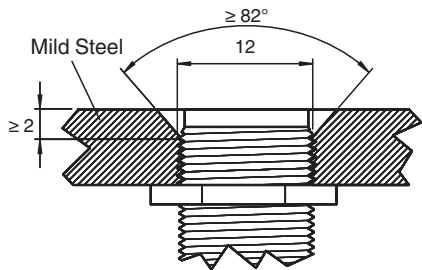
Connection Assignment



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 A-coded 4-pin, TPE cable welding-bead resistant orange
	AB-12	Mounting aid