

Inductive sensor

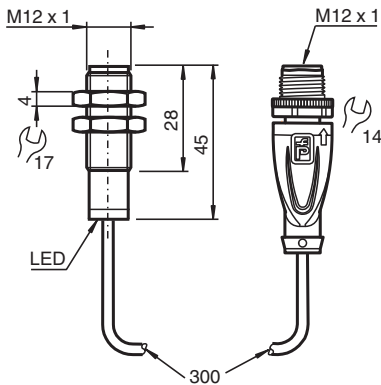
NMB5-12GM45-Z9-C4-300MM-V1



- 5 mm flush
- Stainless steel sensing face
- 2-wire DC
- Weld field immune
- Weld slag resistant coating
- Fixed cable with quick disconnect plug



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
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_{S137}		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

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

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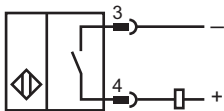
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Technical Data

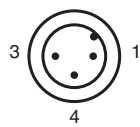
Voltage drop	U _d	< 3 V DC
Operating current	I _L	2 ... 100 mA
Off-state current	I _r	< 500 µA
Switching state indicator		LED, red
Mag. Field strength, AC fields		250 mT
Mag. Field strength, DC fields		250 mT
Compliance with standards and directives		
Standard conformity		
Standards		EN IEC 60947-5-2
Approvals and certificates		
UL approval		cULus 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		fixed cable with plug
Housing material		Xylan coated - Stainless steel 1.4305 / AISI 303
Sensing face		Xylan coated - Stainless steel 1.4305 / AISI 303
Degree of protection		IP67
Connector		
Threading		M12 x 1
Tightening torque		0.6 Nm
Number of pins		3
Cable		
Cable diameter		4.8 mm ± 0.2 mm
Material		POC
Color		orange
Number of cores		4
Core cross section		0.34 mm ²
Length	L	300 mm
Mass		49 g
Dimensions		
Length		45 mm
Diameter		12 mm

Connection



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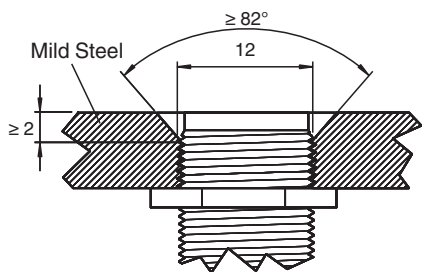
Connection Assignment



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.

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