

Inductive sensor

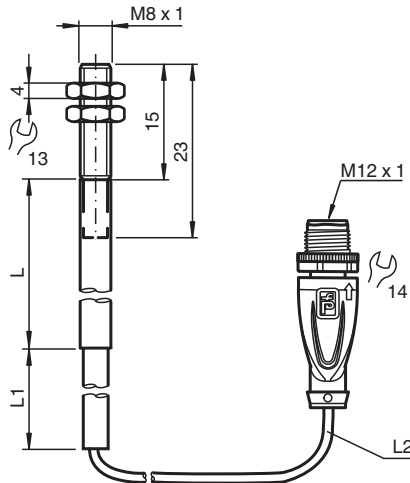
NMB3-8GM23-Z4-C-850MM-V1



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



Dimensions



Technical Data

General specifications

Switching function		Normally open (NO)
Output type		Two-wire
Rated operating distance	s_n	3 mm
Installation		flush
Output polarity		DC
Assured operating distance	s_a	0 ... 2.43 mm
Actuating element		Ferrous targets
Reduction factor r_{AI}		0.3
Reduction factor r_{304}		0.8
Output type		2-wire

Nominal ratings

Operating voltage	U_B	6 ... 30 V DC
Switching frequency	f	5 Hz
Hysteresis	H	5 ... 15 typ. 10 %
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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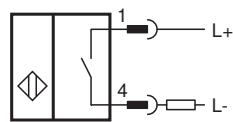
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Technical Data

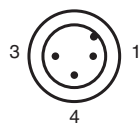
Voltage drop	U_d	$\leq 3\text{ V}$
Operating current	I_L	2 ... 100 mA
Off-state current	I_r	$< 500\text{ }\mu\text{A}$
Switching state indicator		LED, red
Mag. Field strength, AC fields		250 mT
Mag. Field strength, DC fields		250 mT
Compliance with standards and directives		
Standard conformity		
Standards		EN IEC 60947-5-2
Approvals and certificates		
UL approval		cULus 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		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		$4.8\text{ mm} \pm 0.2\text{ mm}$
Material		POC
Color		orange
Number of cores		4
Core cross section		0.34 mm^2
Length	L	500 mm further length specifications: L1 = 50 mm L2 = 300 mm
Mass		60 g
Dimensions		
Length		23 mm
Diameter		8 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)

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