

Inductive sensor

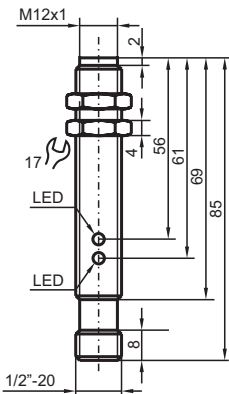
NMB2-12GM85-US-C-FE-V12



- Stainless steel sensing face
- Sensing range 2 mm
- 2-wire AC/DC
- Weld field immune
- Weld slag resistant coating
- Ferrous targets



Dimensions



Technical Data

General specifications

Switching function		Normally open (NO)
Output type		Two-wire
Rated operating distance	s_n	2 mm
Installation		flush
Output polarity		AC/DC
Assured operating distance	s_a	0 ... 1.62 mm
Actuating element		Ferrous targets
Reduction factor r_{Al}		0
Reduction factor r_{Cu}		0
Reduction factor r_{304}		0.4 - 0.7
Reduction factor r_{St37}		1
Reduction factor r_{Brass}		0
Output type		2-wire

Nominal ratings

Operating voltage DC	U_B	20 ... 300 V
Operating voltage AC	U_B	20 ... 250 V
Switching frequency	f	0 ... 30 Hz
Hysteresis	H	3 ... 15 typ. 10 %
Reverse polarity protection		reverse polarity tolerant

Release date: 2022-05-18 Date of issue: 2022-05-18 Filename: 900129_eng.pdf

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

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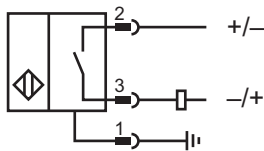
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Technical Data

Short-circuit protection		pulsing
Voltage drop	U_d	$\leq 7\text{ V}$
Operating current	I_L	8 ... 200 mA
Off-state current	I_r	$\leq 1.3\text{ mA}$
Operating voltage indicator		LED, green
Switching state indicator		LED, yellow
Error indicator		LED, green/yellow (Alternate Flashing) - Short circuit/overload indication
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		Certified by China Compulsory Certification (CCC)
Ambient conditions		
Ambient temperature		-25 ... 70 °C (-13 ... 158 °F)
Mechanical specifications		
Connection type		Connector plug 1/2"-20 UN , 3-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

1	GN	(green)
2	RD/BK	(red/black)
3	RD/WH	(red/white)

Accessories

	AB-12	Mounting aid
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