

Inductive sensor

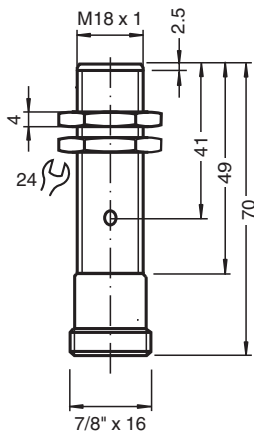
NMB10-18GM70-E2-V94



- 10 mm flush
- Stainless steel sensing face
- Increased operating distance



Dimensions



Technical Data

General specifications		
Switching function		Normally open (NO)
Output type		PNP
Rated operating distance	s_n	10 mm
Installation		flush (Requirements: see drawing below)
Output polarity		DC
Assured operating distance	s_a	0 ... 8.1 mm
Actuating element		Ferrous and nonferrous targets
Reduction factor r_{Al}		0.4
Reduction factor r_{Cu}		0.25
Reduction factor r_{304}		0.85
Reduction factor r_{St37}		1
Output type		3-wire
Nominal ratings		
Operating voltage	U_B	10 ... 30 V DC
Switching frequency	f	240 Hz
Hysteresis	H	3 ... 15 typ. 10 %

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

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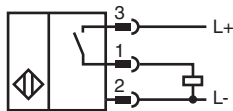
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Technical Data

Reverse polarity protection		reverse polarity protected
Short-circuit protection		pulsing
Voltage drop	U_d	$\leq 2\text{ V}$
Operating current	I_L	$\leq 200\text{ mA}$
Off-state current	I_r	$10\text{ }\mu\text{A}$
No-load supply current	I_0	$\leq 10\text{ mA}$
Functional safety related parameters		
MTTF _d		847 a
Mission Time (T _M)		20 a
Diagnostic Coverage (DC)		0 %
Indicators/operating means		
Operation indicator		Dual LED Green: power Yellow: output
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
CCC approval		CCC approval / marking not required for products rated $\leq 36\text{ V}$
Ambient conditions		
Ambient temperature		-25 ... 70 °C (-13 ... 158 °F)
Mechanical specifications		
Connection type		Connector plug 7/8 inch-16 UN , 4-pin
Housing material		Stainless steel 1.4305 / AISI 303
Sensing face		Stainless steel 1.4305 / AISI 303
Degree of protection		IP67
Dimensions		
Length		70 mm
Diameter		18 mm

Connection



Connection Assignment



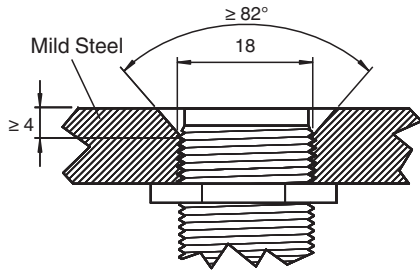
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Connection Assignment

Wire colors

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

Mounting



Sensor face is flush with mounting surface.