

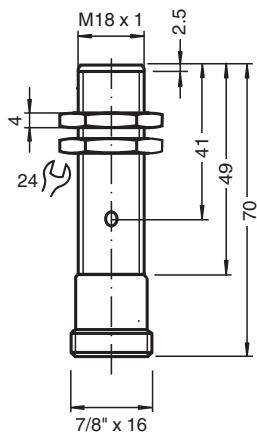
Inductive sensor

NMB10-18GM70-E2-V94

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



Dimensions



Technical Data

Release date: 2024-05-28 Date of issue: 2024-06-06 Filename: 911272_eng.pdf

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_{AI}		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 %

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

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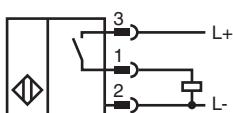
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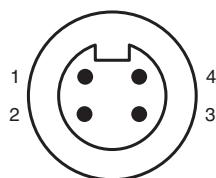
Technical Data

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	$10 \mu\text{A}$
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 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	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

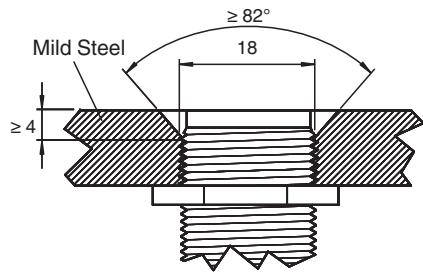


Connection Assignment

Wire colors

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

Mounting



Sensor face is flush with mounting surface.