

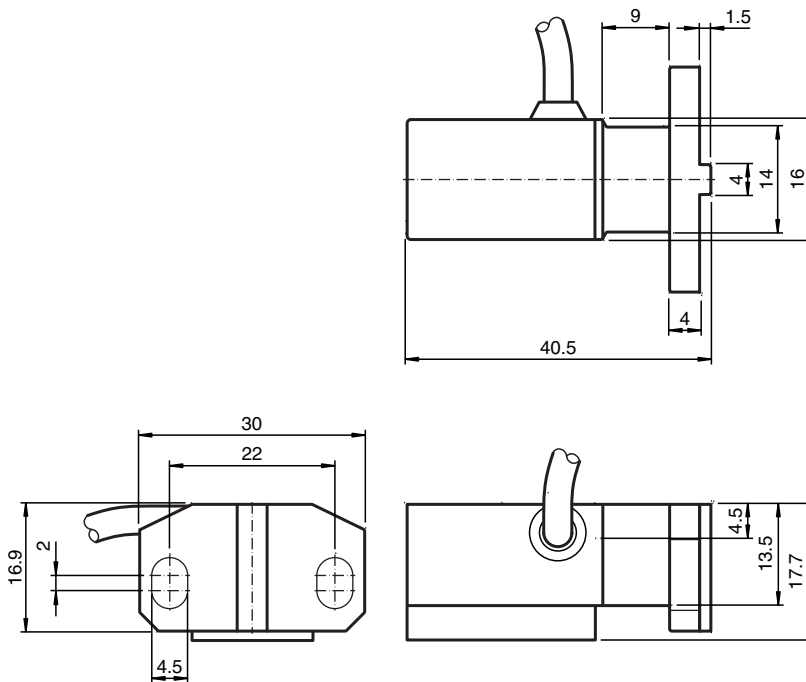
Inductive positioning system

PMI14V-F166-U-1M-V15-Y215628

- Analog output 0 ... 10 V
- Measuring range 0 ... 14 mm
- Scalable measurement range programmable via cable



Dimensions



Technical Data

General specifications

Switching element function	Analog voltage output
Object distance	0.5 ... 2 mm
Measurement range	0 ... 14 mm

Nominal ratings

Operating voltage	U_B	18 ... 30 V
Reverse polarity protection		reverse polarity protected
Linearity error		± 0.3 mm
Repeat accuracy	R	± 0.05 mm
Resolution		33 μ m

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

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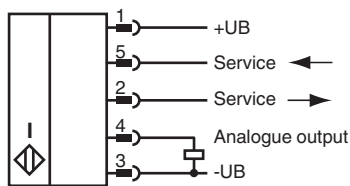
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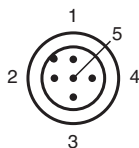
Technical Data

Temperature drift		± 0.4 mm
No-load supply current	I_0	≤ 20 mA
Analog output		
Output type		1 voltage output: 0 ... 10 V
Load resistor		≥ 1000 Ω
Short-circuit protection		pulsing
Compliance with standards and directives		
Standard conformity		
Standards		EN 60947-5-2:2007 IEC 60947-5-2:2007
Ambient conditions		
Ambient temperature		-10 ... 70 °C (14 ... 158 °F)
Mechanical specifications		
Connection type		
Material		
Housing		Zinc diecast, nickel-plated cover , PBT
Target		mild steel, e. g. 1.0037, SR235JR (formerly St37-2)
Connector		
Threading		M12 x 1
Tightening torque		0.6 Nm
Number of pins		5
Cable		
Cable diameter		4.8 mm ± 0.2 mm
Bending radius		> 10 x cable diameter
Material		PUR
Color		black
Number of cores		5
Core cross section		0.25 mm ²
Length	L	1 m
Mass		74 g

Connection



Connection Assignment



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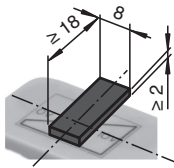
Connection Assignment

Wire colors in accordance with EN 60947-5-2





1	BN	(brown)
2	WH	(white)
3	BU	(blue)
4	BK	(black)
5	GY	(gray)

Additional Information

dimensions for the target object:



Accessories

	BT-F90-W	Damping element for sensors of type F90, F112, and F166; side hole
	BT-F90-G	Damping element for sensors of type F90, F112, and F166; front hole
	MH V1-SCREWDRIVER	Torque screwdriver (0.6 Nm)
	MH V1-BIT M12	plug-in cap M12

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