

Model Number

PMI14V-F112-U-V3

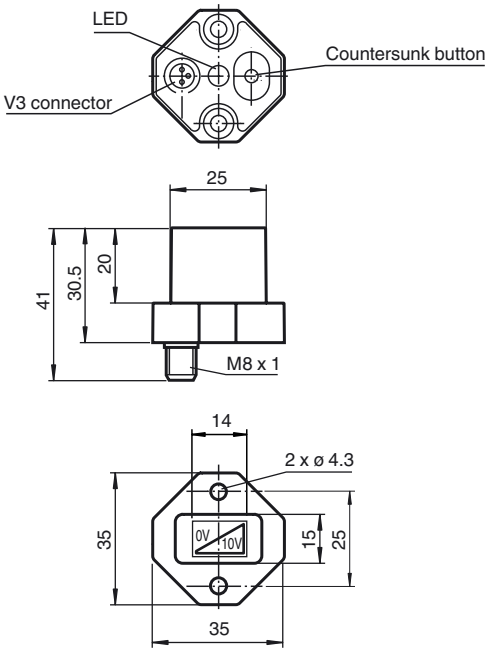
Features

- **Analog output 0 ... 10 V**
- **Measuring range 0 ... 14 mm**
- **Scaleable measurement range, programmable via key**

Technical data

General specifications	
Switching element function	Analog voltage output
Object distance	max. 2.5 mm
Measurement range	0 ... 14 mm
Nominal ratings	
Operating voltage U_B	18 ... 30 V DC
Reverse polarity protected	reverse polarity protected
Linearity error	± 0.3 mm
Repeat accuracy	± 0.05 mm
Resolution	33 µm
Temperature drift	± 0.4 mm
No-load supply current I_0	≤ 20 mA
Operating voltage display	LED
Functional safety related parameters	
$MTTF_d$	650 a
Mission Time (T_M)	20 a
Diagnostic Coverage (DC)	0 %
Analog output	
Output type	1 voltage output: 0 ... 10 V
Load resistor	≥ 1000 Ω
Short-circuit protection	pulsing
Ambient conditions	
Ambient temperature	-25 ... 70 °C (-13 ... 158 °F)
Mechanical specifications	
Connection type	M8 x 1 connector, 3-pin
Protection degree	IP67
Material	
Housing	PA 6
Note	The data relating to accuracy only apply to a distance to the object to be detected of 1 ... 2.5 mm.
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, Class 2 Power Source
CCC approval	Products with a maximum operating voltage of ≤36 V do not bear a CCC marking because they do not require approval.

Dimensions



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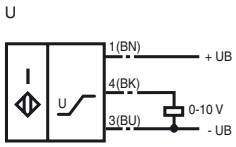
Electrical Connection



Core colours in accordance with EN 60947-5-2.

Pinout



Wire colors in accordance with EN 60947-5-2

1	BN	(brown)
3	BU	(blue)
4	BK	(black)

Accessories

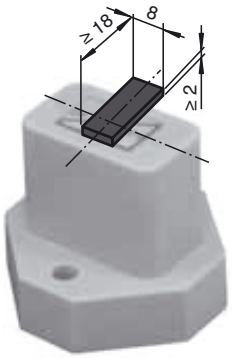
BT-F90-W
Damping element for F90 sensors; lateral screw holes

V3-GM-2M-PUR
Cable socket, M8, 3-pin, PUR cable

V3-WM-2M-PUR
Cable socket, M8, 3-pin, PUR cable

Additional Information

dimensions for the target object:



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