



### 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	$\pm 0.3$ mm
Repeat accuracy	$\pm 0.05$ mm
Resolution	33 $\mu$ m
Temperature drift	$\pm 0.4$ mm
No-load supply current $I_0$	$\leq 20$ mA
Operating voltage display	LED

### Analog output

Output type	1 voltage output: 0 ... 10 V
Load resistor	$\geq 1000 \Omega$
Short-circuit protection	pulsing

### Ambient conditions

Ambient temperature	-25 ... 70 °C (-13 ... 158 °F)
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### 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.

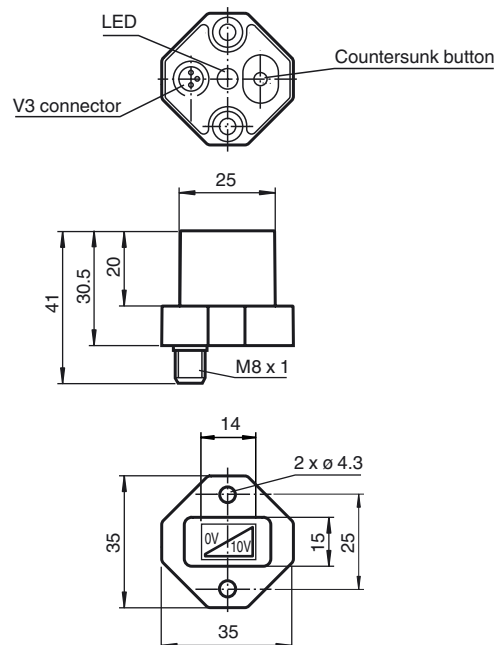
### Compliance with standards and directives

Standard conformity	
Standards	EN 60947-5-2:2007 IEC 60947-5-2:2007

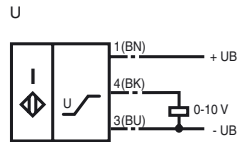
### Approvals and certificates

UL approval	cULus Listed, General Purpose, Class 2 Power Source
CCC approval	Products with a maximum operating voltage of $\leq 36$ V do not bear a CCC marking because they do not require approval.

## Dimensions



**Electrical Connection**



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

**Pinout**

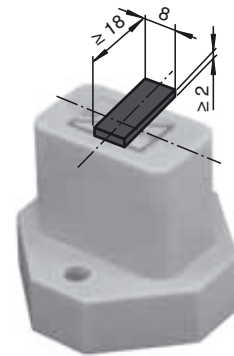


Wire colors in accordance with EN 60947-5-2

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

**Additional Information**

dimensions for the target object:



**Accessories**

**BT-F90-G**

Damping element for F90 sensors; front screw holes

**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