





#### **Model Number**

PMI360DV-F130-IU-V15

#### **Features**

- Analog output, load-dependent voltage or current
- Parameterisable measuring range

# **Technical data**

General	specifications
Mosci	romont rango

max. 360° min. 45° 360° Adjustment range Rotational speed ≤ 100 min<sup>-1</sup>

**Nominal ratings** 

18 ... 30 V DC Operating voltage U<sub>B</sub>

Reverse polarity protection reverse polarity protected

Repeat accuracy R Resolution 0.2

0.02 °/°C (-25 °C ... 70 °C) Temperature drift

No-load supply current  $I_0$  $\leq$  45 mA

Functional safety related parameters 450 a  $MTTF_d$ Mission Time (T<sub>M</sub>) 20 a Diagnostic Coverage (DC) 0 %

Indicators/operating means

LED PWR/ERR LED green / red

LED U/I Activator within measuring range

**Analog output** 

current output or voltage output (load dependend) 4 ... 20 mA (R  $_{L}$  < 400  $\Omega)$ Output type

 $0~...~10~V~(R_L>3.3~k\Omega)$ 

-25 ... 70 °C (-13 ... 158 °F)

± 0.6 °, (with original actuator) Linearity error

Ambient conditions Ambient temperature

**Mechanical specifications** 

Connection type 5-pin, M12 x 1 connector Degree of protection IP67 Material

Housing

Target mild steel, e. g. 1.0037, SR235JR (formerly St37-2)

Mass

Compliance with standards and directives

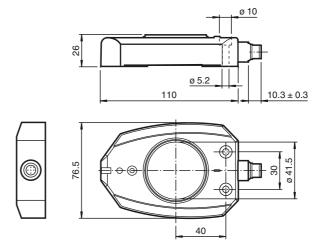
Standard conformity

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

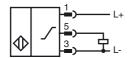
Approvals and certificates

cULus Listed, General Purpose, Class 2 Power Source **UL** approval CCC approval CCC approval / marking not required for products rated

# **Dimensions**



#### **Electrical Connection**



# **Pinout**



Wire colors in accordance with EN 60947-5-2

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

#### **Accessories**

#### BT-F130-A

Actuator for F130 series

#### V15-G-2M-PVC

Female cordset, M12, 5-pin, PVC cable

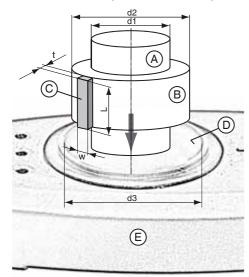
#### V15-W-2M-PVC

Female cordset, M12, 5-pin, PVC cable

### Using a different actuating element

You can use a different actuator instead of the BT-F130-A actuator provided, which must be positioned centrally in the sensor opening. When using a different actuating element, the element must fulfill all requirements relating to the material, dimensions and distance to the sensitive surface on the sensors (see table). Failing to fulfill all of these requirements may reduce the accuracy/resolution of the sensor or even cause the sensor to stop functioning.

#### Dimensions when using a different actuating element



**PEPPERL+FUCHS** 

- A Drive shaft
- B Insulation ring made from non-conductive material
- C Separate actuator (L ≥23 mm)
- D Sensitive surface on the sensors (black, cylindrical inner surface)
- E Sensor



Actuator (C) can be placed on the insulating ring made from non-conductive material (B) or inserted in this ring.

Dimension	
t	2 mm
w	7.5 mm
L	≥ 23mm
d1	Depending on the drive shaft material S235JR+AR (previously St37-2): max. 19 mm Stainless steel 1.4435 / AISI 316L (V4A): max. 21 mm Stainless steel 1.4305 / AISI 303 (V2A): max. 23 mm
d2	Select so that the distance between the edges of the actuator and the sensitive surface on the sensor is 1 2 mm.
d3	41.5 mm
Actuator material	Mild steel such as S235JR+AR (previously St37-2)