





Model Number

PMI360D-F130-R2-V15

Position sensor for PAX001

Features

- Measuring range 0 ... 360°
- **RS 232 transmission**

Technical data

General s	pecifications
-----------	---------------

Measurement range 0 ... 360 ° Rotational speed $\leq 100 \text{ min}^{-1}$

Nominal ratings

Operating voltage U_B 18 ... 30 V DC Reverse polarity protection reverse polarity protected

Repeat accuracy R 0.5° Resolution 0.2 °

1.5° (-25 °C ... 70 °C) Temperature drift

No-load supply current I₀ \leq 45 mA

Functional safety related parameters $MTTF_d$ 450 a Mission Time (T_M) 20 a Diagnostic Coverage (DC) 0 %

Indicators/operating means

LED yellow RS 232 LED PWR/ERR Status display LED, green/red (Power on / missing actuator)

Interface

Interface type RS 232, for communication with interface box PAX...

Ambient conditions

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

Mechanical specifications

Connection type 5-pin, M12 x 1 connector

Housing material PBT Degree of protection IP67 Mass 180 g

Compliance with standards and

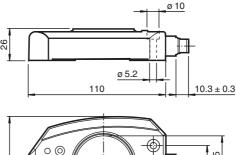
Standard conformity

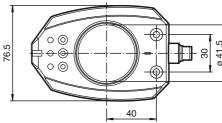
Standards EN 60947-5-2:2007 IEC 60947-5-2:2007

Approvals and certificates

UL approval cULus Listed, General Purpose, Class 2 Power Source CCC approval / marking not required for products rated $\leq\!36~\text{V}$ CCC approval

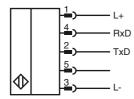
Dimensions





www.pepperl-fuchs.com

Electrical Connection



Pinout



Accessories

BT-F130-A

Actuator for F130 series

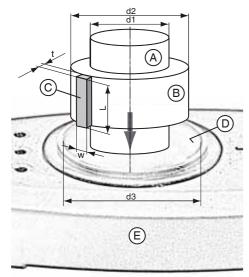
V15-G-2M-PUR-V15-G

Connecting cable, M12 to M12, PUR cable 5-pin

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



- 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 Senso



 $\label{eq:conductive} \textit{Actuator} (\textit{\textbf{C}}) \textit{ can be placed on the insulating ring made from non-conductive material (\textit{\textbf{B}}) or inserted in this ring.}$

Dimension		
t	2 mm	
w	7.5 mm	



Release date: 2015-01-30 17:19 Date of issue: 2015-01-30 214119_eng.xml

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 \$235.IR+AR (previously \$t37-2)	