

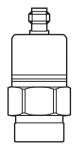




Installation Instructions Electronic pressure sensor

> e**fectorso**o PA6229





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1 Safety instructions

- Please read the product description prior to installing the unit. Ensure that the product is suitable for your application without any restrictions.
- If the operating instructions or the technical data are not adhered to, personal injury and/or damage to property may occur.
- Please check for all applications that the product materials (see Technical data) are compatible with the media to be measured.

For the scope of validity cULus:

The device shall be supplied from an isolating transformer having a secondary Listed fuse rated as noted in the following table.

Overcurrent protection						
Control-circui	t wire size	Maximum protective device rating				
AWG	(mm²)	Ampere				
26	(0.13)	1				
24	(0.20)	2				
22	(0.32)	3				
20	(0.52)	5				
18	(0.82)	7				
16	(1.3)	10				

The Sensor shall be connected only by using any R/C (CYJV2) cord, having suitable ratings.

2 Function and features

The pressure sensor detects the system pressure and converts it into an inverted analogue output signal.

 20 mA (at the initial value of the measuring range) ... 4 mA (at the final value of the measuring range).

2.1 Applications

· Type of pressure: relative pressure

Order no.	Measuring range		Permi overload	ssible pressure	Burs pres	sting sure
	bar	PSI	bar	PSI	bar	PSI
PA6229	-10	-14.50	10	145	30	450

MPa = bar \div 10 / kPa = bar \times 100



Static and dynamic overpressures exceeding the indicated overload pressure are to be avoided by taking appropriate measures.

The indicated bursting pressure must not be exceeded. Even if the bursting pressure is exceeded only for a short time, the unit can be destroyed. NOTE: Risk of injury!

3 Installation



Before mounting and removing the sensor, make sure that no pressure is applied to the system.

- ▶ Insert the unit in a ¼" NPT process connection.
- ▶ Tighten firmly.

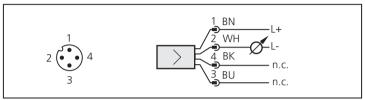
4 Electrical connection

The unit must only be connected by an electrician.

The national and international regulations for the installation of electrical equipment must be observed.

Voltage supply to SELV, PELV.

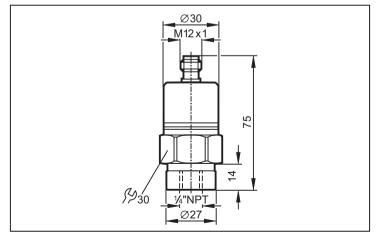
- Disconnect power.
- ▶ Connect the unit as follows:



Core colours of ifm sockets:

1 = BN (brown), 2 = WH (white), 3 = BU (blue), 4 = BK (black), n.c. = not connected.

5 Scale drawing



Dimensions are in millimeters

6 Technical data

Step response time analogue output [ms]
- greatest TEMPCO of the span
$\label{eq:housing material} Housing materialstainless steel (316S12); FPM (Viton); PA; EPDM/X (Santoprene) Materials (wetted parts)stainless steel (303S22); ceramics; FPM (Viton) Operating temperature [°C]$
EN 61000-4-2 ESD:
noise immunityaccording to the automotive directive 2004/104/EC / ISO 11452-2 HF radiated

¹⁾ to EN50178, SELV, PELV

BFSL = Best Fit Straight Line / LS = Limit Value Setting

^{2) -40...90°}C upon request