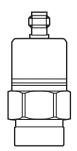


Installation Instructions Electronic pressure sensor

> efectorsod PX9983



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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-circuit wire size Maximum protective of		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 analog output signal.

• 0 ... 10 V

2.1 Applications

· Type of pressure: relative pressure

Order no.	Measuring range		Permissible overload pressure		Bursting pressure	
	bar	PSI	bar	PSI	bar	PSI
PX9983	025	0363	150	2 175	350	5 075

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 G¼ process connection.
- ► Tighten firmly.

4 Electrical connection

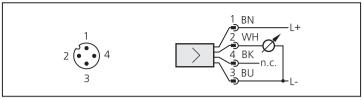
The unit

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.

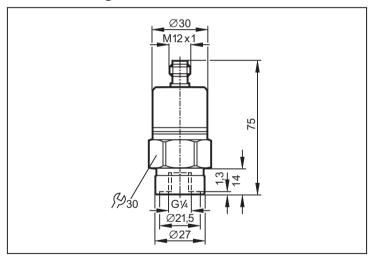
- ▶ Disconnect power.
- ► Connect the unit as follows:



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

greatest TEMPCO of the span

Current consumption [mA] Analogue output		
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		
greatest TEMPCO of the zero point	0.1	

0.2

Housing materialstainless steel (316S12); FPM (Viton); PA; EPDM/X (Santoprene)
Materials (wetted parts)stainless steel (303S22); ceramics; FPM (Viton)
Operating temperature [°C]25 +80
Medium temperature [°C] -25 +90
Storage temperature [°C]40 +100
Protection PAxxx0 PAxxx2, PAxx60 IP 67
Protection classIII
nsulation resistance [MΩ]> 100 (500 V DC)
Shock resistance [g]
/ibration resistance [g]20 (DIN / IEC 68-2-6, 10 - 2000 Hz)
EMC
EN 61000-4-2 ESD: 4 kV CD / 8 kV AD
EN 61000-4-3 HF radiated:
EN 61000-4-4 Burst:
EN 61000-4-6 HF conducted:
adiation of interference according to the automotive directive 2004/104/EC / CISPR25
noise immunityaccording to the automotive directive 2004/104/EC / ISO 11452-2
HF radiated
oulse resistanceaccording to ISO7637-2 / severity level 3

1) to EN50178, SELV, PELV BFSL = Best Fit Straight Line / LS = Limit Value Setting

More information at www.ifm.com