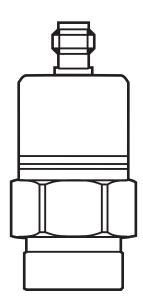




Installation Instructions Electronic pressure sensor

efectorsoo

PX9224 PX9227 UK



#### **Contents**

1 Safety instructions	2
2 Function and features	3
2.1 Applications	
3 Installation	
4 Electrical connection	3
5 Scale drawing	4
6 Technical data	5

## 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 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.

1...5 V

### 2.1 Applications

• Type of pressure: relative pressure

Order no.	Measuring range	Permissible overload pressure	Bursting pressure
	PSI	PSI	PSI
PX9224	0100	1 087	2 175
PX9227	015	145	450

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.

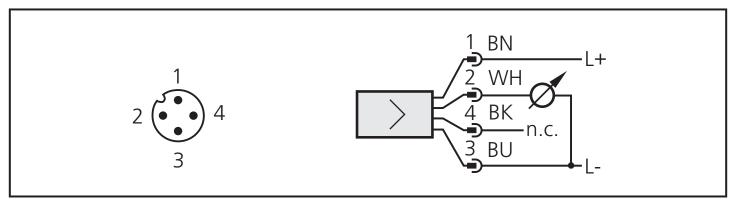
#### 4 Electrical connection

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 EN50178, SELV, PELV.

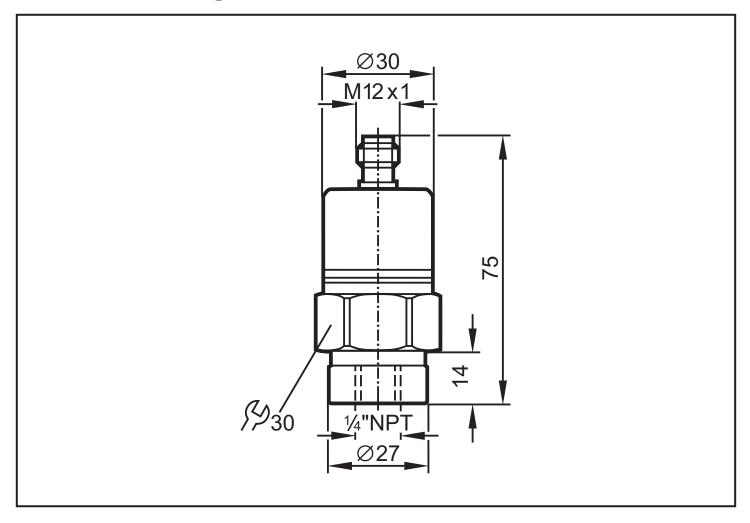
- ▶ Disconnect power.
- ► Connect the unit as follows:



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 1: Sealing FPM / DIN 3869-14

### 6 Technical data

On a matter or small to ma TV/I	20 DO
Operating voltage [V]	
Current consumption [mA]	
Analogue output	
Load [Ω]m	in. 2000
Step response time analogue output [ms]	3
Characteristics deviation [% of the span] < ± 0.25 (BFSL) / < ±	0.5 (LS)
Repeatability [% of the span]	< 0.1
Long-term stability [% of value of measuring range / 6 months]	
Temperature coefficients (TEMPCO) in the compensated	
temperature range 0 80°C (in % of the span/10K)	
- greatest TEMPCO of the zero point	0.2
- greatest TEMPCO of the span	
Housing materialstainless steel (316S12); FPM (Viton); PA; EPDM/X (Sant	
Materials (wetted parts)stainless steel (310312), 1 FW (VItori), PA, LFDW/X (3and Materials (wetted parts)stainless steel (303S22); ce	• ,
sealing: FPM (Viton); according to DIN 3	3009-1 <del>4</del>
Operating temperature [°C]2	
Medium temperature [°C]2	
Storage temperature [°C]40	
Protection	
Protection class	
Insulation resistance [M $\Omega$ ]> 100 (50	
Shock resistance [g]	
Vibration resistance [g]	(000 Hz)
EMC	
EN 61000-4-2 ESD:	
EN 61000-4-3 HF radiated:	
EN 61000-4-4 Burst:	
EN 61000-4-6 HF conducted:	
radiation of interference according to the automotive directive 2004/104/EC / C	
noise immunityaccording to the automotive directive 2004/104/EC / ISO	11452-2
HF radiated	100 V/m
pulse resistanceaccording to ISO7637-2 / severity	y level 3

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

More information at www.ifm.com