



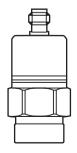




Installation Instructions Electronic pressure sensor

PA32xx





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1 Symbols used

- Instruction
- Important note

 Non-compliance can result in malfunction or interference.
- Information
 Supplementary note.

2 Safety instructions

- The device described is a subcomponent for integration into a system.
 - The manufacturer of the system is responsible for the safety of the system.
 - The system manufacturer undertakes to perform a risk assessment and to create a documentation in accordance with legal and normative requirements to be provided to the operator and user of the system. This documentation must contain all necessary information and safety instructions for the operator, the user and, if applicable, for any service personnel authorised by the manufacturer of the system.
- Read this document before setting up the product and keep it during the entire service life.
- The product must be suitable for the corresponding applications and environmental conditions without any restrictions.
- Only use the product for its intended purpose (→ Functions and features).
- Only use the product for permissible media (→ Technical data).

- If the operating instructions or the technical data are not adhered to, personal injury and/or damage to property may occur.
- The manufacturer assumes no liability or warranty for any consequences caused by tampering with the product or incorrect use by the operator.
- Installation, electrical connection, set-up, operation and maintenance of the unit
 must be carried out by qualified personnel authorised by the machine operator.
- · Protect units and cables against damage.

For units with cULus approval and 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.

3 Function and features

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

4 ... 20 mA

3.1 Applications

Type of pressure: relative pressure

Order no.	Measuring range		Permissible overload pressure		Bursting pressure	
	bar	PSI	bar	PSI	bar	PSI
PA3220	0400	05 800	600	8 700	1 000	14 500
PA3221	0250	03 625	400	5 800	850	12 300
PA3222	0100	01 450	300	4 350	650	9 400
PA3223	025	0363	150	2 175	350	5 075
PA3224	010	0145	75	1 087	150	2 175
PA3226	02.5	036.3	20	290	50	725
PA3227	01	014.5	10	145	30	450
PA3228	00.25	03.63	6	84	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 destroved. NOTE: Risk of injury!

Use in gases at pressures > 25 bar only after contacting the manufacturer ifm.

High-pressure units (400 bar) are supplied with an integrated damping device to avoid any risk of injury in case of bursting when bursting pressure is exceeded. When the damping device is removed it can become unusable.

If you have any questions, please contact ifm electronic's sales specialists.

4 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.

5 Electrical connection

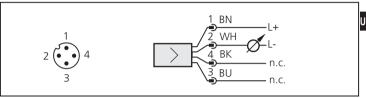
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The unit must only be connected by an electrician.

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.