

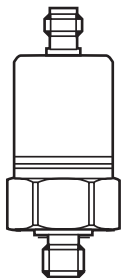


Installation Instructions  
Electronic pressure sensor

**PA35xx**

**UK**

11450534 / 00 06 / 2019



# Contents

1 Symbols used .....	2
2 Safety instructions .....	3
3 Function and features .....	3
3.1 Applications .....	4
4 Installation.....	4
5 Electrical connection.....	5

## 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.

UK

## 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.	Final value of the measuring range (nominal pressure)		Static pressure resistance (max. permissible pressure)		Bursting pressure	
	bar	psi	bar	psi	bar	psi
PA3509	-1...1	-14.5...14.5	10	145	30	435
PA3526	0...2.5	0...36.3	20	290	50	725
PA3524	0...10	0...145	75	1087	150	2175
PA3523	0...25	0...363	150	2175	350	5075
PA3522	0...100	0...1 450	300	4 350	650	9400
PA3521	0...250	0...3 625	400	5 800	850	12300
	mbar	psi	bar	psi	bar	psi
PA3589	0...100	0...1.45	4	58	30	435
PA3528	0...250	0...3.63	6	84	30	435

$$\text{MPa} = \text{bar} \div 10 \quad / \quad \text{kPa} = \text{bar} \times 100$$



Avoid overload pressure exceeding the specified maximum permissible pressure 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 may be destroyed. **ATTENTION: Risk of injury!**

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



Pressure Equipment Directive (PED):

The units comply with the Pressure Equipment Directive and are designed and manufactured for group 2 fluids in accordance with the sound engineering practice.

Use of group 1 fluids on request!

## 4 Installation



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

- ▶ Insert the unit in a suitable process connection (see type label "Port Size").
- ▶ Tighten firmly.

Recommended tightening torque: 25...35 Nm

## 5 Electrical connection

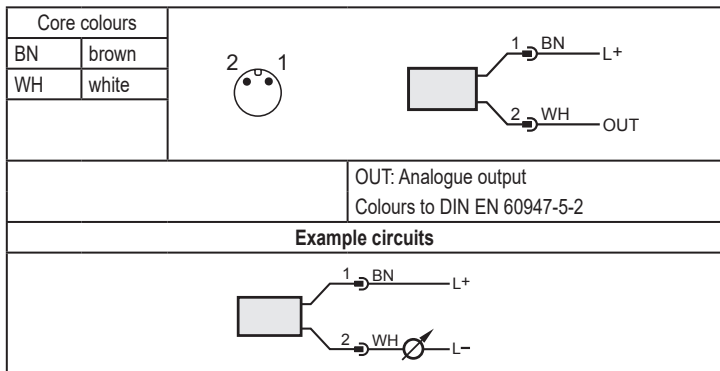


The unit must only be connected by an electrician.

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:



UK

More information at [www.ifm.com](http://www.ifm.com)