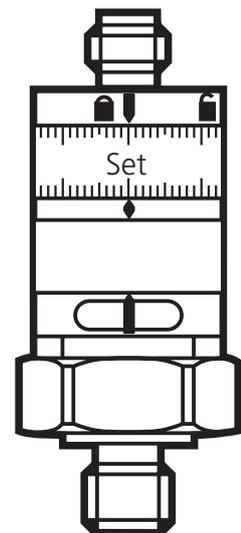




Operating Instructions
Electronic pressure monitor
PK55xx

UK

704522 / 00 03 / 2020



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1 Preliminary note

1.1 Symbols used

▶ Instruction

> Reaction, result

[...] Designation of keys, buttons or indications

→ Cross-reference



Important note

Non-compliance may result in malfunction or interference



Information

Supplementary note

2 Safety instructions

- The device described is a subcomponent for integration into a system.
 - The manufacturer is responsible for the safety of the system.
 - The system manufacturer undertakes to perform a risk assessment and to create 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, programming, configuration, operation and maintenance of the product must be carried out by personnel qualified and authorised for the respective activity.
- Protect units and cables against damage.

3 Function and features

The pressure monitor detects the system pressure and generates 1 output signal.

- In case of increasing pressure the output closes when the Set1 value is reached.
- In case of decreasing pressure the output opens when the value „Set1 minus hysteresis“ is reached.

The hysteresis is fixed (2% of value of measuring range).

Applications

Type of pressure: relative pressure

Order no.	Measuring range		Permissible overload pressure		Bursting pressure	
	bar	PSI	bar	PSI	bar	PSI
PK5520	0...400	0...5 800	600	8 700	1 600	23 200
PK5521	0...250	0...3 625	400	5 800	1 000	14 500
PK5522	0...100	0...1 450	200	2 900	1 000	14 500
PK5523	0...25	0...363	60	870	500	7 253
PK5524	0...10	0...145	25	362	300	4 350



Avoid static and dynamic overpressure exceeding the given overload pressure.

Even if the bursting pressure is exceeded only for a short time the unit can be destroyed (danger of injuries)!



If the cable length exceeds 30 m or if used outside buildings, there is a risk of overvoltage pulses from external sources. We recommend to use the unit in protected operating environments and to limit overvoltage pulses to max. 500 V.

4 Installation



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

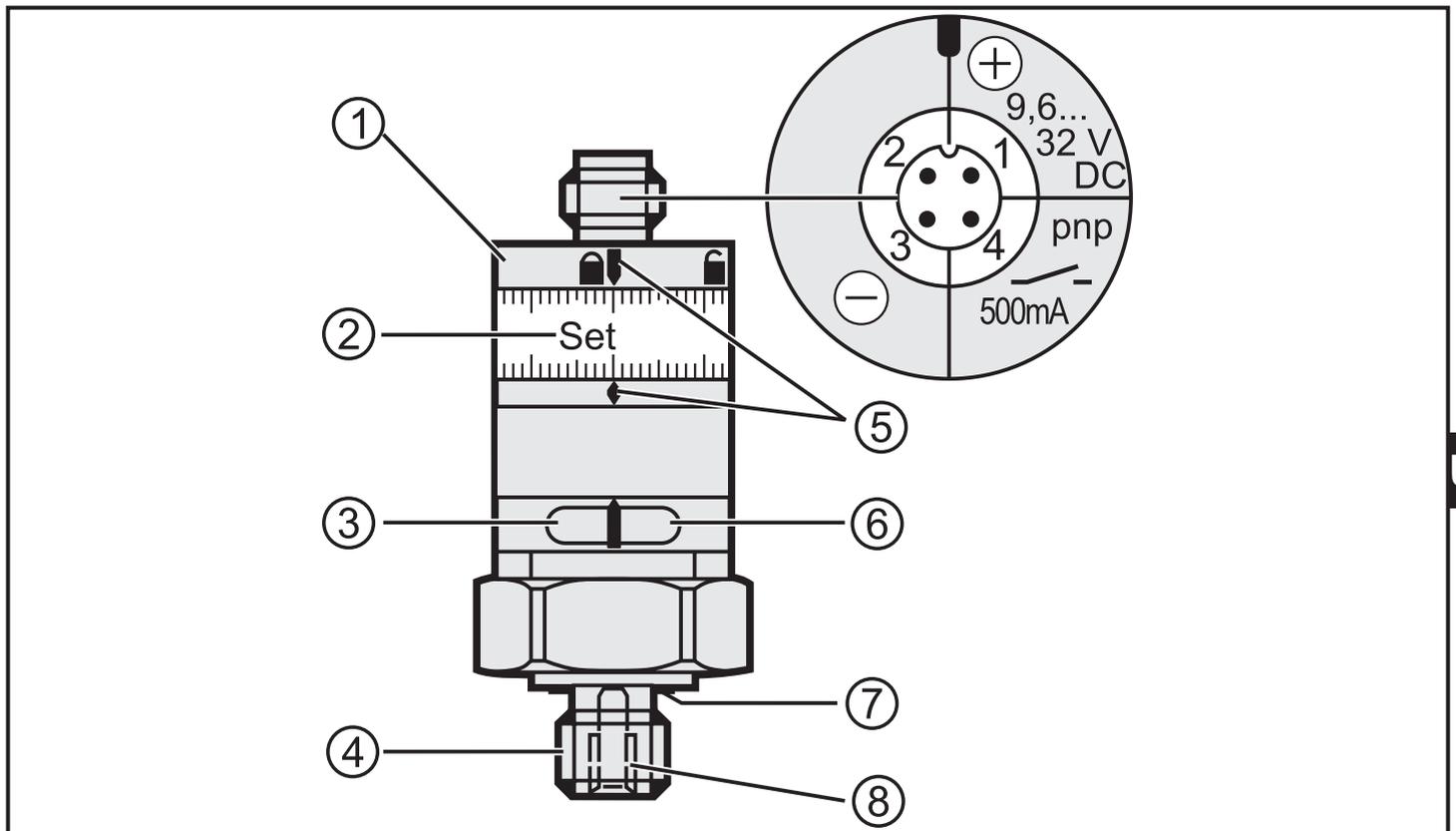
5 Electrical connection



The unit must be connected by a suitably qualified electrician.
Voltage supply to EN50178, SELV, PELV.

▶ Disconnect power before connecting the unit.

6 Setting / Operation



- 1: locking ring
- 2: setting ring (manually adjustable after unlocking)
- 3: green LED: supply voltage O.K.
- 4: process connection G $\frac{1}{4}$ A; tightening torque 25 Nm
- 5: setting marks
- 6: yellow LED: Set1 value reached, output = ON
- 7: sealing FPM / DIN 3869-14
- 8: internal thread M5

- To obtain the setting accuracy: Set the ring to the minimum value, then set the requested value.