



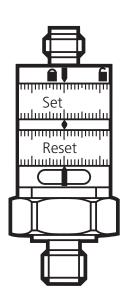
Installation Instructions Electronic pressure monitor

efectorsoo

PK652x

UK





1 Safety instructions

- Read the product description before installing the unit. Ensure that the product is suitable for your application without any restrictions.
- Non-adherence to the operating instructions or technical data can lead to personal injury and/or damage to property.
- In all applications check compliance of the product materials (→ 6 Technical data) with the media to be measured.

2 Function and features

The pressure monitor detects the system pressure and switches the two complementary outputs OUT1 (pin 4) / OUT2 (pin 2):

- In case of increasing pressure OUT1 closes / OUT2 opens when the set Set value is reached.
- In case of decreasing pressure OUT1 opens / OUT2 closes when the set Reset value is reached.

Applications

Type of pressure: relative pressure

Order no.	Measuring range		Permissible overload pressure		Bursting pressure	
	bar	PSI	bar	PSI	bar	PSI
PK6520	0400	05 800	600	8 700	1 600	23 200
PK6521	0250	03 625	400	5 800	1 000	14 500
PK6522	0100	01 450	200	2 900	1 000	14 500
PK6523	025	0363	60	870	500	7253
PK6524	010	0145	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)!

3 Installation

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

4 Electrical connection

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The unit must be connected by a suitably qualified electrician.

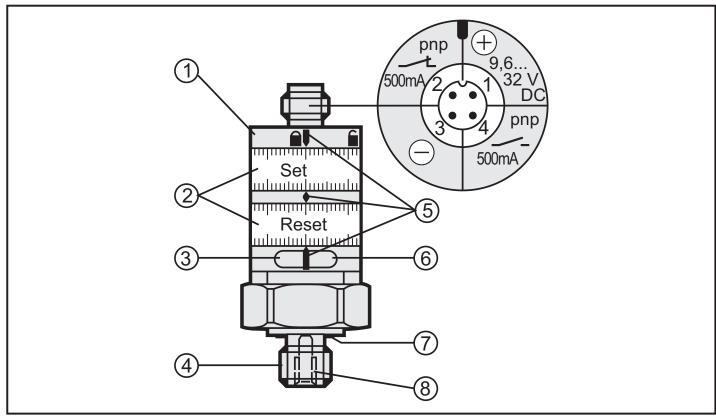
The national and international regulations for the installation of electrical equipment must be observed.

Voltage supply to EN50178, SELV, PELV.

For the scope of validity cULus: The device shall be supplied from an isolating transformer having a secondary Listed fuse rated either

- a) max 5 amps for voltages 0~20 Vrms (0~28.3 Vp) or
- b) 100/Vp for voltages of 20~30 Vrms (28.3~42.4 Vp).
- ▶ Disconnect power before connecting the unit.

5 Setting / Operation



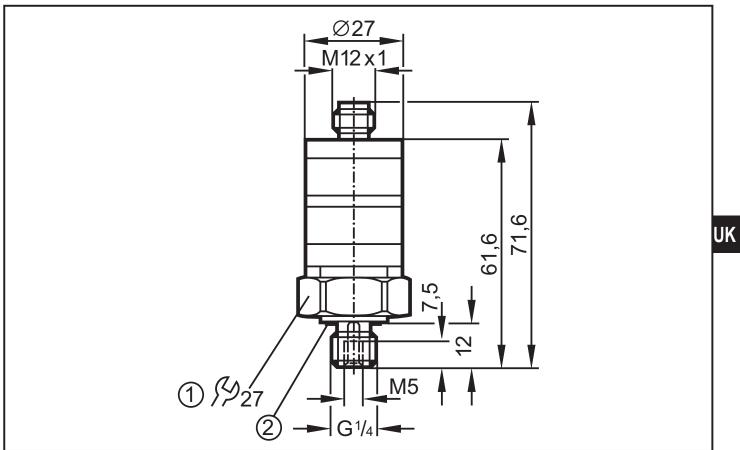
- 1: locking ring
- 2: setting rings (manually adjustable after unlocking)
- 3: green LED: supply voltage O.K.
- 4: process connection G1/4 A; tightening torque 25 Nm
- 5: setting marks
- 6: yellow LED: Set value reached, OUT1 = ON / OUT2 = OFF
- 7: sealing FPM / DIN 3869-14
- 8: internal thread M5
- Minimum distance between Set and Reset = 2% of the final value of the measuring range.
- To obtain the setting accuracy: Set the rings to the minimum value, then set the requested value.

6 Technical data

Operating voltage [V]9.632 D				
Current rating [mA])U			
Current consumption [mA]<2				
Switching frequency [Hz]10				
Setting accuracy [% of the end value of the measuring range]< ± 2.	.5			
Characteristics deviation				
[% of the end value of the measuring range] ± 1.5 (BFSL) / < ± 2.5 (LS				
Repeatability [% of the end value of the measuring range]< ± 0.	.5			
Temperature drift [% of the end value of the measuring range/10 K]< ± 0.	.5			
in the temperature range [°C]08				
Operating temperatur [°C]258				
Medium temperature [°C]258				
ProtectionIP 67 / I				
Insulation resistance [M Ω] > 100 (500 V DC				
Shock resistance [g]	s)			
Vibration resistance [g]	z)			
Housing materialPocan; PC (Macrolon); FPM (Viton); stainless steel (316S12				
Materials (wetted parts)stainless steel (316S12); seal: FPM (Vitor				
EMC ÈN 61000-4-2 ESD:				
EN 61000-4-3 HF radiated:				
EN 61000-4-4 Burst:				
EN 61000-4-6 HF conducted:				
LIN O 1000-7-0 III CONQUEG	٧			

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

7 Scale drawing



Dimensions are in millimeters (25.4 mm = 1 inch)
1: tightening torque 25 Nm
2: sealing FPM / DIN 3869-14