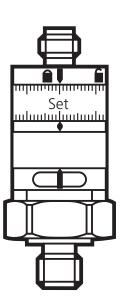


**Installation Instructions** Electronic pressure monitor

PK55xx

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.

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 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).

#### 2 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	0400	05 800	600	8 700	1 600	23 200
PK5521	0250	03 625	400	5 800	1 000	14 500
PK5522	0100	01 450	200	2 900	1 000	14 500
PK5523	025	0363	60	870	500	7 253
PK5524	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

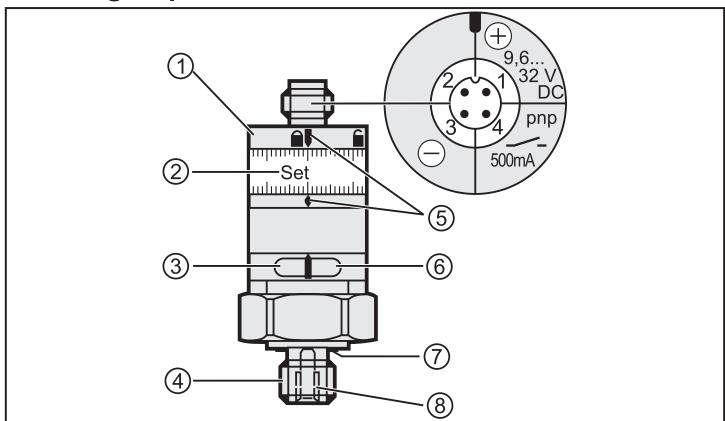
The unit must be connected by a suitably qualified electrician.

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

Voltage supply to EN50178, SELV, PELV.

▶ Disconnect power before connecting the unit.

## 5 Setting / Operation



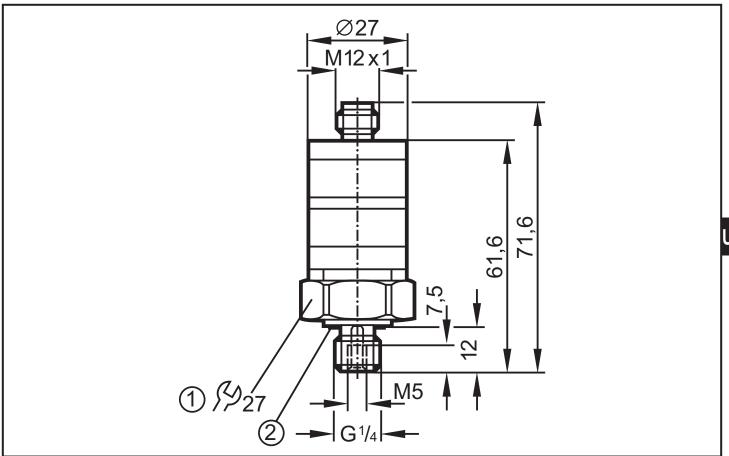
- 1: locking ring
- 2: setting ring (manually adjustable after unlocking)
- 3: green LED: supply voltage O.K.
- 4: process connection G1/4 A; tightening torque 25 Nm
- 5: setting marks
- 6: yellow LED: Set1 value reached, output = ON
- 7: sealing FPM / DIN 3869-14
- 8: internal thread M5
- To obtain the setting accuracy: Set the ring to the minimum value, then set the requested value.

## 6 Technical data

	$\Box$
Operating voltage [V]9.632	
Current rating [mA]	500
Current consumption [mA]<	25
Switching frequency [Hz]	
Setting accuracy [% of the end value of the measuring range] < ±	
Characteristics deviation	
	I C)
[% of the end value of the measuring range] $< \pm 1.5$ (BFSL) / $< \pm 2.5$ (I	
Repeatability [% of the end value of the measuring range]<	
Temperature drift [% of the end value of the measuring range/10 K] < ±	
in the temperature range [°C]	.80
Operating temperatur [°C]25	
Medium temperature [°C]25	
ProtectionIP 67	
Insulation resistance [M $\Omega$ ]> 100 (500 V E	
Charle register as [c] = 50 (DIN / IEC 60 2.27, 14)	)() ma\
Shock resistance [g]	iis)
Vibration resistance [g]	HZ)
Housing materialPocan; PC (Macrolon); FPM (Viton); stainless steel (316S	
Materials (wetted parts)stainless steel (316S12); seal: FPM (Vite	on)
EMC EN 61000-4-2 ESD:	ΚV
EN 61000-4-3 HF radiated: 10 \	//m
EN 61000-4-4 Burst:	
EN 61000-4-6 HF conducted:	
LIV 0 1000 7-0 111 00110001001	O V

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