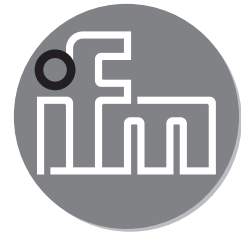


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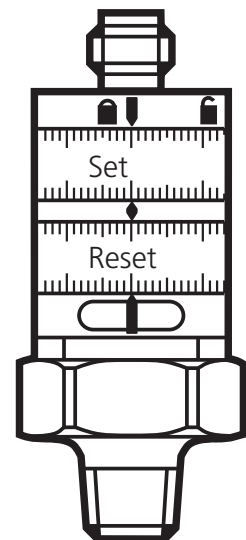
Installation Instructions
Electronic pressure monitor

efector500®

PK673X

UK

704878 / 00 08 / 2010



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	MPa	bar	MPa	bar	MPa
PK6730	0...400	0...40	600	60	1 600	160
PK6731	0...250	0...25	400	40	1 000	100
PK6732	0...100	0...10	200	20	1 000	100
PK6734	0...10	0...1	25	2.5	300	30



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.

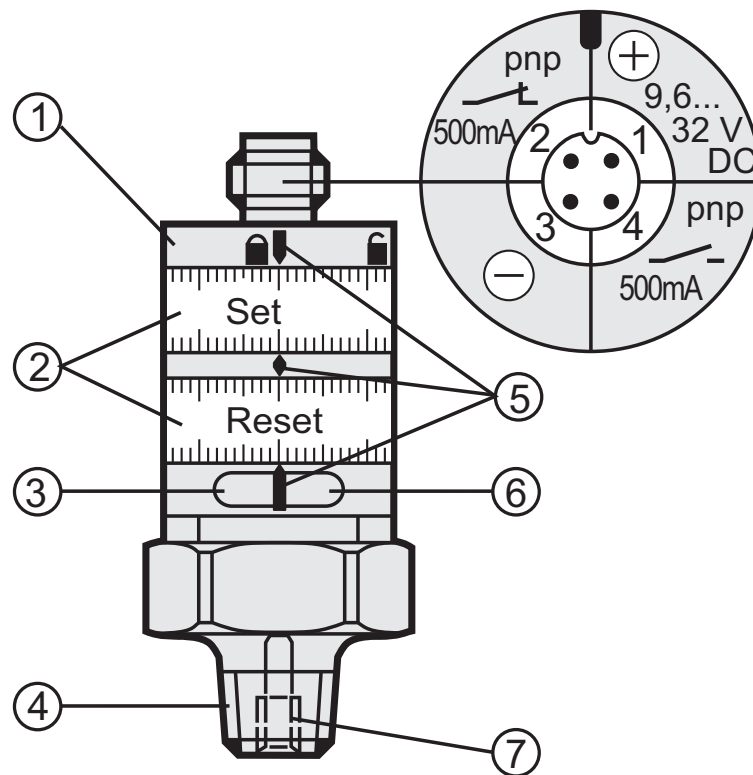
For the scope of validity cULus: The device shall be supplied from an isolating transformer having a secondary Listed fuse rated either

- 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.

UK

5 Setting / Operation



- 1: locking ring
- 2: setting rings (manually adjustable after unlocking)
- 3: green LED: supply voltage O.K.
- 4: process connection R $\frac{1}{4}$ A; tightening torque 25 Nm
- 5: setting marks
- 6: yellow LED: Set value reached, OUT1 = ON / OUT2 = OFF
- 7: internal thread M5

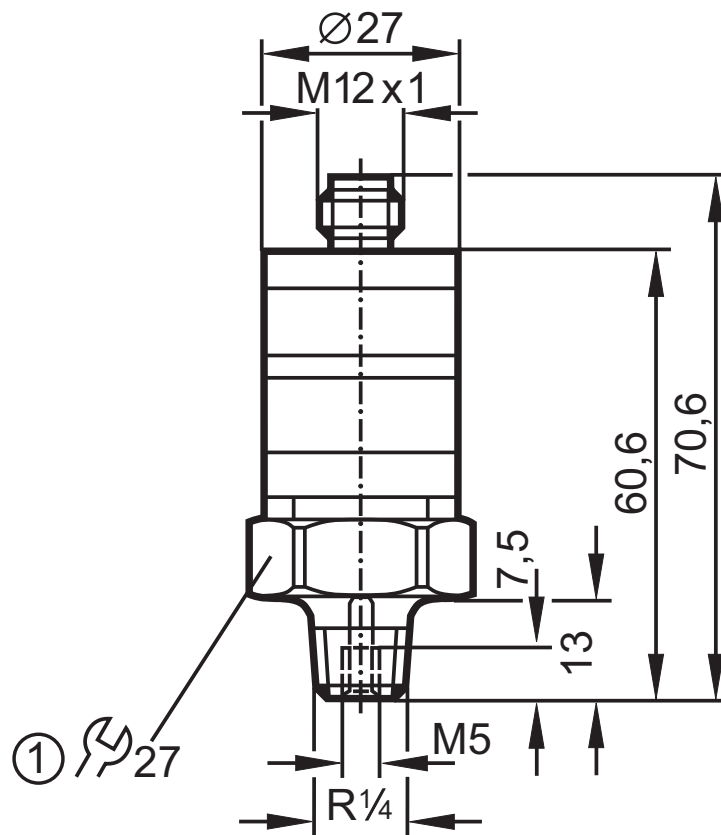
- Minimum distance between Set and Reset = 2% of the final value of the measuring range.
- To obtain the setting accuracy: Set the rings to the minimum value, then set the requested value.

6 Technical data

Operating voltage [V]	9.6...32 DC
Current rating [mA]	500
Current consumption [mA]	< 25
Switching frequency [Hz]	100
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]	0...80
Operating temperatur [°C]	-25...80
Medium temperature [°C]	-25...80
Protection	IP 67 / III
Insulation resistance [M Ω]	> 100 (500 V DC)
Shock resistance [g]	50 (DIN / IEC 68-2-27, 11ms)
Vibration resistance [g]	20 (DIN / IEC 68-2-6, 10 - 2000 Hz)
Housing material.....	Pocan; PC (Macrolon); FPM (Viton); stainless steel (316S12)
Materials (wetted parts).....	stainless steel (316S12)
EMC EN 61000-4-2 ESD:	4 / 8 KV
EN 61000-4-3 HF radiated:.....	10 V/m
EN 61000-4-4 Burst:	2 KV
EN 61000-4-6 HF conducted:	10 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