Pressure switch with display PE 827



- Compact, easy to use
- Ranges from -1 ... 0 up to 0 ... 40 bar
- Analogue output 4 ... 20 mA
- 2 Digital outputs

APPLICATIONS

Continuous control on hydraulic, pneumatic applications, in vacuum, cooling process; Filter monitoring in the range of -1 ... 0 ... 40 bar

DESCRIPTION

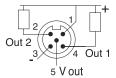
PE 827 is a robust instrument, with 2 NPN contact outputs and 1 analogue output 4-20 mA. This pressure switch integrates a sensor with a heavy duty ceramic diaphragm. Controlled by microprocessor, it allows the user to easily access the various configuration parameters, such as trigger points and switching functions. Its LED display guarantees perfect readability in all circumstances. It displays the measured value, the parameters, the status of outputs.

This pressure switch has, a reverse polarity protection circuit, and, a short-circuit protection. A diagnostic function is available from the keyboard. This function allows a complete control of the electronics as well as the measuring cell and to take note of the memorized pressure peaks.

TECHNICAL FEATURES

Operating ranges Overpressure	From -1 0 up to 0 40 bar Ranges ≤ 10 bar: 4 times the F.S. Ranges > 10 bar: 3.5 times the F.S.
Accuracy	± 1% F.S.
Long-term stability	± 0,3% F.S.
Response time	_≤ 5 ms
Pressure cycle	< 100 Hz
Operating conditions	Compatible liquids and gases
Fluid temperature	-20 +80 °C
Ambient temperature	-20+80 °C
Storage temperature	-40 +80 °C
Display	4 LED, 7 segments each, for measurement + 2 LED, 1 segment each, for scale unit & status
Outputs	Analogue (x1): 4-20 mA
	Digital (x2): NO/NC contacts; open collector, 250 mA max
Power supply	17 33 V DC
Load	420 mA: < 500 Ω
Consumption	Max. 50 mA
Electrical protections	_Against short circuits and reverse polarity
Connections	_Male connector M 12x1 (5-pin)
Protection	IP 65 and IP 67 according to IEC 60529







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Set up

Switching or N.O. or N.F. contact

Delay for switch-on and switch-off: adjustable from 0 to 50 s

Diagnostic function

From keyboard: Complete controls of electronics, measuring cell, stored pressure peaks Manual action

BSP 1/4" Fitting

AISI 316 L (1.4404)

Sealing FPM

Polyarylamide 50% FV black Housing

Diaphragm Ceramic Al₂O₃ 96 %

Mounting Any position (downward connector not recommended)

About 120 g Mass

EC Conformity: The instrument meets the legal requirements of the current European Directives.

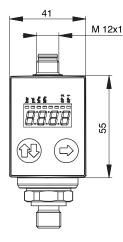
CODE NUMBERS AND REFERENCES

Code	Reference	Description
827 102	PE 827	Pressure switch with display - Range 0 2.5 bar
827 106	PE 827	Pressure switch with display - Range 0 6 bar
827 110	PE 827	Pressure switch with display - Range 0 10 bar
827 116	PE 827	Pressure switch with display - Range 0 16 bar
827 125	PE 827	Pressure switch with display - Range 0 25 bar
715 998		Connector, elbow, M12 - 5-pin

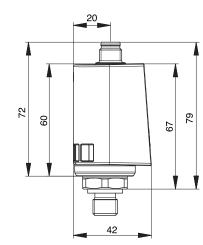
Other measuring ranges:

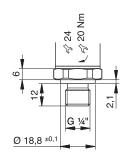
-1 ... 0; 0 ... 1; 0 ... 40 [bar]

DIMENSIONS









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