

- 1: 7-segment LED display  
2: Programming button



Product characteristics  
Electronic pressure monitor

Quick disconnect

Function programmable

Process connection: G 1/4 I

Switching output

7-segment LED display

Measuring range: 0...400 bar / 0...5800 psi / 0...40 MPa

Application

| Application   | special application (see operating instructions)                   |           |         |
|---|--|-----------|---------|
| Pressure rating                                     | 600 bar  | 8700 psi  | 60 MPa  |
| Bursting pressure min.                              | 1000 bar   | 14500 psi | 100 MPa |
| Medium temperature [°C]                             | -25...80   |           |         |
| Electrical data                                     |  |           |         |
| Electrical design AC / triac                        |  |           |         |
| Operating voltage [V]                               | 85...265 AC  |           |         |
| Nominal voltage [V]                                 | 90...250 AC (45...65 Hz)   |           |         |
| Voltage tolerance [%]                               | -5 / +10   |           |         |
| Current consumption [mA]                            | < 10   |           |         |
| Insulation resistance [MΩ]                          | > 100 (500 V DC)   |           |         |
| Protection class                                    | II   |           |         |
| Reverse polarity protection                         | no   |           |         |
| Outputs   |  |           |         |
| Output Switching output                             |  |           |         |
| Output function normally open / closed programmable |  |           |         |
| Current rating [mA]                                 | 250; (...70 °C); 1000 (...60 °C); 1500 (...45 °C); 2500 (...20 °C) |           |         |
| Voltage drop [V]                                    | < 2  |           |         |
| Short-circuit proof                                 | no   |           |         |
| Overload protection                                 | no   |           |         |
| Switching frequency [Hz]                            | ≤ 160  |           |         |
| Measuring / setting range                           |  |           |         |
| Display unit  | bar, psi, MPa  |           |         |

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|  |   |               |                 |
|--|---|---------------|-----------------|
| Measuring range  | 0...400 bar   | 0...5800 psi  | 0...40 MPa      |
| Setting range  |   |               |                 |
| Set point, SP  | 4...400 bar   | 60...5800 psi | 0.4...40.0 MPa  |
| Reset point, rP  | 2...398 bar   | 30...5770 psi | 0.2 ...39.8 MPa |
| in steps of  | 1 bar   | 10 psi        | 0.1 MPa         |
| Accuracy / deviations  |   |               |                 |
| Accuracy / deviations (in % of the span)   |   |               |                 |
| Switch point accuracy  | < ± 1.0   |               |                 |
| Linearity  | < ± 0.5   |               |                 |
| Hysteresis   | < ± 0.1   |               |                 |
| Repeatability **)  | < ± 0.1   |               |                 |
| Long-term stability ***)   | < ± 0.1   |               |                 |
| Temperature coefficients (TEMPCO) in the temperature range -25...80° C (in % of the span per 10 K) |   |               |                 |
| Greatest TEMPCO of the zero point  | < ± 0.2   |               |                 |
| Greatest TEMPCO of the span  | < ± 0.3   |               |                 |
| Reaction times   |   |               |                 |
| Power-on delay time [s]  | 0.2   |               |                 |
| Delay time programmable dS, dr [s]   | 0, 0.2,...10, 11,...50  |               |                 |
| Damping for the switching output (dAP) [s]   | 0...4   |               |                 |
| Integrated watchdog  | yes   |               |                 |
| Software / programming   |   |               |                 |
| Programming options  | hysteresis / window function; N.O. / N.C; on delay, off delay; damping; calibration of displayed values; display can be rotated / deactivated; display unit |               |                 |
| Adjustment of the switch point   | Programming button  |               |                 |
| Environment  |   |               |                 |
| Ambient temperature [°C]   | -25...80  |               |                 |
| Storage temperature [°C]   | -40...100   |               |                 |
| Protection   | IP 67   |               |                 |
| Tests / approvals  |   |               |                 |
| EMC  | EN 61000-4-2 ESD: 4 kV CD / 8 kV AD<br>EN 61000-4-3 HF radiated: 10 V/m<br>EN 61000-4-4 Burst: 2 kV<br>EN 61000-4-6 HF conducted: 10 V                      |               |                 |
| Shock resistance   | DIN IEC 68-2-27: 50 g (11 ms)   |               |                 |
| Vibration resistance   | DIN IEC 68-2-6: 20 g (10...2000 Hz)   |               |                 |
| MTTF [Years]   | 224.58  |               |                 |
| Mechanical data  |   |               |                 |
| Process connection   | G ¼ I   |               |                 |
| Materials (wetted parts)   | stainless steel (303S22); ceramics; FKM   |               |                 |
| Housing materials  | FPM (Viton); PA; PBT (Pocan); PC (Makrolon); stainless steel (304S15)   |               |                 |
| Switching cycles min.  | 100 million   |               |                 |
| Weight [kg]  | 0.38  |               |                 |
| Displays / operating elements  |   |               |                 |
| Display  | Switching status LED red<br>Function display 7-segment LED display<br>Measured values 7-segment LED display   |               |                 |
| Electrical connection  |   |               |                 |
| Connection   | 1/2" UNF-Connector  |               |                 |
| <b>Wiring</b>  |   |               |                 |

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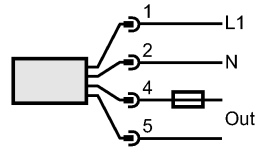
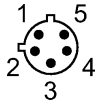
Programming of the output function:

Hno = hysteresis / N.O.

Hnc = hysteresis / N.C.

Fno = window function / N.O.

Fnc = window function / N.C.



Note: miniature fuse to IEC60127-2 sheet 1,  
≤ 5 A (fast acting)

Remarks

Remarks

n.c. = not connected

\*\*\*) with temperature fluctuations < 10 K

\*\*\*)) in % of the span per year

Recommendation: check the unit for reliable function after a short circuit.

Pack quantity

[piece]

1