

pressure sensor SPAW-P100R-G14F-2NV-M12

Part number: 8022838

FESTO

For measuring media pressures, pressure measuring range between 0 and +100 bar, pneumatic connection female thread G1/4.



Data sheet

| Feature | Value |
|--|---|
| Authorisation | RCM Mark c UL us - Listed (OL) |
| CE mark (see declaration of conformity) | to EU directive for EMC in accordance with EU RoHS directive |
| UKCA marking (see declaration of conformity) | To UK instructions for EMC To UK RoHS instructions |
| Materials note | Conforms to RoHS |
| Measured variable | Relative pressure |
| Measurement method | Thin metal film pressure sensor |
| Pressure measuring range start value (MPa) | 0 MPa |
| Pressure measuring range, initial value | 0 bar |
| Pressure measuring range start value (psi) | 0 psi |
| Pressure measuring range end value (MPa) | 10 MPa |
| Pressure measuring range, final value | 100 bar |
| Pressure measuring range end value (psi) | 1,450 psi |
| Overload pressure | 20 MPa 200 bar |
| Overload pressure (psi) | 2,900 psi |
| Operating medium | Compressed air in accordance with ISO8573-1:2010 [-:~:] Fluid media Gaseous media |
| Medium temperature | -20 ... 85 °C |
| Ambient temperature | 0 ... 80 °C |
| Accuracy, FS | 1 %FS |
| Repetition accuracy in ± %FS | 0.15 %FS |
| Switch output | 2xNPN |
| Switching function | Freely programmable |
| Switching element function | Switchable |
| Max. output current | 250 mA |
| Analogue output | 0 - 10 V |
| Rise time | 3 ms |
| Short circuit strength | Yes |
| Operating voltage range DC | 15 ... 35 V |
| Polarity protected | for operating voltage |
| Electrical connection 1, connection type | Plug |
| Electrical connection 1, connection technology | M12x1, A-coded in accordance with EN 61076-2-101 |
| Electrical connection 1, number of pins/wires | 5 |
| Electrical connection 1, type of mounting | Screw lock |
| Mounting type | with internal (female) thread with accessories |
| Pneumatic connection | Female thread 1/4 |
| Product weight | 230 g |
| Material housing | ABS |

| Feature | Value |
|---|--|
| | High alloy steel, non-corrosive |
| Materials in contact with media | High alloy steel, non-corrosive |
| Type of display | 4-place alphanumeric LED display |
| Unit(s) that can be displayed | MPa bar kPa kg/cm ² psi |
| Operating status display | Red LED |
| Setting options | Via display and buttons |
| Protection against manipulation | PIN-Code |
| Threshold value setting range | 0.5 ... 100 % |
| Hysteresis setting range | 0.5 ... 99.5 % |
| Protection class | IP65 IP67 |
| Corrosion resistance classification CRC | 4 - Very high corrosion stress |
| PWIS conformity | VDMA24364 zone III |