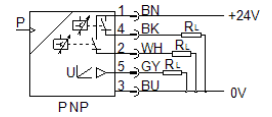


# Pressure sensor SPAW-P100R-G12M-2PV-M12

Part number: 8022811

FESTO

For measuring media pressures, pressure measuring range between 0 and +100 bar, pneumatic connection male thread G1/2.



## Data sheet

| Feature  | Value   |
|--|---|
| Authorization                                  | RCM Mark<br>c UL us - Listed (OL)   |
| CE symbol (see declaration of conformity)      | according to EU-EMV guideline<br>in accordance with EU RoHS directive                   |
| UKCA marking (see declaration of conformity)   | To UK instructions for EMC<br>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<br>200 bar   |
| Overload pressure (psi)                        | 2,900 psi   |
| Operating medium                               | Compressed air in accordance with ISO8573-1:2010 [-:~:]<br>Fluid media<br>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                                  | 2xPNP   |
| Switching function                             | Freely programmable   |
| Switching element function                     | Switchable  |
| Max. output current                            | 250 mA  |
| Analog 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 external (male) thread   |
| Assembly position                              | Any   |
| Pneumatic connection                           | Male thread G1/2  |
| Product weight                                 | 230 g   |
| Material housing                               | ABS   |

| Feature                                 | Value  |
|---|--|
|   | High alloy steel, non-corrosive                |
| Materials in contact with media         | High alloy steel, non-corrosive                |
| Material sealing ring                   | NBR  |
| Type of display                         | 4-place alphanumeric<br>LED display            |
| Unit(s) that can be displayed           | MPa<br>bar<br>kPa<br>kg/cm <sup>2</sup><br>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<br>IP67                                   |
| Corrosion resistance classification CRC | 4 - Very high corrosion stress                 |
| PWIS conformity                         | VDMA24364 zone III                             |