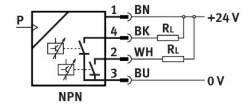


# Pressure sensor

## SPAW-P50R-G12M-2N-M12

Part number: 8022774

**FESTO**



## Data sheet

| Feature                                      | Value   |
|--|---|
| Certification                                | RCM compliance mark<br>c UL us - Listed (OL)                                    |
| CE marking (see declaration of conformity)   | As per EU EMC directive<br>As per EU RoHS directive                             |
| UKCA marking (see declaration of conformity) | To UK instructions for EMC<br>To UK RoHS instructions                           |
| Note on materials                            | RoHS-compliant  |
| Measured variable                            | Relative pressure   |
| Method of measurement                        | Metal thin-film pressure sensor   |
| Pressure measuring range initial value       | 0 MPa<br>0 bar<br>0 psi   |
| Pressure measuring range end value           | 5 MPa<br>50 bar<br>725 psi  |
| Overload pressure                            | 10 MPa<br>100 bar<br>1450 psi   |
| Operating medium                             | Compressed air as per ISO 8573-1:2010 [---:--]<br>Liquid media<br>Gaseous media |
| Temperature of medium                        | -20 °C...85 °C  |
| Ambient temperature                          | 0 °C...80 °C  |
| Accuracy in ± % FS                           | 1 %FS   |
| Repetition accuracy in ± %FS                 | 0.15 %FS  |
| Switching output                             | 2xNPN   |
| Switching function                           | Freely programmable   |
| Switching element function                   | Switchable  |
| Max. output current                          | 250 mA  |
| Rise time                                    | 3 ms  |
| Short-circuit protection                     | yes   |
| DC operating voltage range                   | 15 V...35 V   |
| Reverse polarity protection                  | for operating voltage   |
| Electrical connection 1, connection type     | Plug  |

| Feature  | Value  |
|--|--|
| Electrical connection 1, connection technology | M12x1 A-coded as per EN 61076-2-101            |
| Electrical connection 1, number of pins/wires  | 4  |
| Electrical connection 1, type of mounting      | Screw-type lock                                |
| Type of mounting                               | With external thread                           |
| Mounting position                              | Any  |
| Pneumatic connection                           | External thread G1/2                           |
| Product weight                                 | 230 g  |
| Housing material                               | ABS<br>High-alloy stainless steel              |
| Materials in contact with the media            | High-alloy stainless steel                     |
| Sealing ring material                          | NBR  |
| Display type                                   | 4-character alphanumeric<br>LED display        |
| Displayable unit(s)                            | MPa<br>bar<br>kPa<br>kg/cm <sup>2</sup><br>psi |
| Switching status indication                    | LED red  |
| Setting options                                | Via display and pushbuttons                    |
| Protection against tampering                   | PIN code                                       |
| Setting range threshold value                  | 0.5 %...100 %                                  |
| Setting range hysteresis                       | 0.5 %...99.5 %                                 |
| Degree of protection                           | IP65<br>IP67                                   |
| Corrosion resistance class (CRC)               | 4 - Particularly high corrosion stress         |
| LABS (PWIS) conformity                         | VDMA24364 zone III                             |