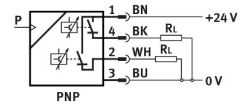


# Pressure sensor SPAW-B2R-G12M-2P-M12

Part number: 8022749

**FESTO**



[PDF General operating condition](#)

## Data sheet

| Feature                                              | Value                                                                      |
|------------------------------------------------------|----------------------------------------------------------------------------|
| Symbol                                               | 00991165                                                                   |
| Approval                                             | RCM trademark<br>c UL us listed (OL)                                       |
| CE mark (see declaration of conformity)              | To EU EMC Directive<br>In accordance with 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                                                          |
| Measurement method                                   | Piezoresistive pressure sensor                                             |
| Start value for pressure measuring range             | -0.1 MPa                                                                   |
| Start value for pressure measuring range             | -1 bar                                                                     |
| Start value for pressure measuring range             | -14.5 psi                                                                  |
| End value for pressure measuring range               | 0.1 MPa                                                                    |
| End value for pressure measuring range               | 1 bar                                                                      |
| End value for pressure measuring range               | 14.5 psi                                                                   |
| Overload pressure                                    | 0.2 MPa                                                                    |
| Overload pressure                                    | 2 bar                                                                      |
| Overload pressure                                    | 29 psi                                                                     |
| Operating medium                                     | Compressed air to ISO 8573-1:2010 [-:--:]<br>Liquid media<br>Gaseous media |
| Media temperature                                    | -20 °C ... 85 °C                                                           |
| Ambient temperature                                  | 0 °C ... 80 °C                                                             |
| Accuracy in ± % FS                                   | 1 %FS                                                                      |
| Repetition accuracy in ± %FS                         | 0.15 %FS                                                                   |
| Switching output                                     | 2xPNP                                                                      |
| Switching function                                   | Freely programmable                                                        |
| Switching element function                           | Switchable                                                                 |
| Max. output current                                  | 250 mA                                                                     |
| Rise time                                            | 3 ms                                                                       |
| Short circuit current rating                         | yes                                                                        |
| Operational voltage range DC                         | 15 V ... 35 V                                                              |
| Reverse polarity protection                          | For operating voltage                                                      |
| Electrical connection 1, connection type             | Plugs                                                                      |
| Electrical connection 1, connector system            | M12x1, A-coded to EN 61076-2-101                                           |
| Electrical connection 1, number of connections/cores | 4                                                                          |

| Feature                                              | Value                                          |
|------------------------------------------------------|------------------------------------------------|
| Electrical connection 1, type of mounting            | Screw-type lock<br>Not rotatable               |
| Electrical connection 1, compatible type of mounting | Compatible with rotatable screw-type lock      |
| Electrical connection 1, connection pattern          | 00995386                                       |
| Type of mounting                                     | Via male thread                                |
| Mounting position                                    | optional                                       |
| Pneumatic connection                                 | Male thread G1/2                               |
| Product weight                                       | 230 g                                          |
| Material housing                                     | High-alloy stainless steel                     |
| Material in contact with the medium                  | High-alloy stainless steel                     |
| Material sealing ring                                | NBR                                            |
| Display type                                         | 4-place alphanumeric<br>LED indicator          |
| Displayable units                                    | MPa<br>bar<br>kPa<br>kg/cm <sup>2</sup><br>psi |
| Switching status indication                          | Red LED                                        |
| Setting options                                      | Via display and keys                           |
| 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 - Very high corrosion stress                 |
| LABS (PWIS) conformity                               | VDMA24364 zone III                             |