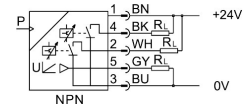


# Pressure sensor SPAW-B2R-G12M-2NV-M12

Part number: 8022839

**FESTO**



## Data sheet

| Feature                                      | Value                                                                    |
|----------------------------------------------|--------------------------------------------------------------------------|
| 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<br>-1 bar<br>-14.5 psi                                          |
| End value for pressure measuring range       | 0.1 MPa<br>1 bar<br>14.5 psi                                             |
| Overload pressure                            | 0.2 MPa<br>2 bar<br>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                             | 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 current rating                 | yes                                                                      |
| Operational voltage range DC                 | 15 V...35 V                                                              |
| Reverse polarity protection                  | For operating voltage                                                    |

| Feature                                              | Value                                          |
|------------------------------------------------------|------------------------------------------------|
| 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 | 5                                              |
| 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      |
| Type of mounting                                     | Via male thread                                |
| Pneumatic connection                                 | Male thread G1/2                               |
| Product weight                                       | 230 g                                          |
| Material housing                                     | ABS<br>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                             |