

# Pressure sensor SPAW-B2R-G14F-2NV-M12

Part number: 8022830

FESTO



[General operating condition](#)

## Data sheet

| Feature  | Value   |
|--|---|
| Symbol   | 00995380  |
| 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 RoHS instructions                             |
| Note on materials                              | RoHS-compliant                                      |
| Measured variable                              | Relative pressure                                   |
| Method of measurement                          | Piezoresistive pressure sensor                      |
| Pressure measuring range initial value         | -0.1 MPa  |
| Pressure measuring range initial value         | -1 bar  |
| Pressure measuring range initial value         | -14.5 psi   |
| Pressure measuring range end value             | 0.1 MPa   |
| Pressure measuring range end value             | 1 bar   |
| Pressure measuring range end value             | 14.5 psi  |
| Overload pressure                              | 0.2 MPa   |
| Overload pressure                              | 2 bar   |
| Overload pressure                              | 29 psi  |
| Operating medium                               | 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  |
| Analog output                                  | 0 - 10 V  |
| 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  |
| Electrical connection 1, connection technology | M12x1 A-coded as per EN 61076-2-101                 |
| Electrical connection 1, number of pins/wires  | 5   |

| Feature   | Value  |
|---|--|
| Electrical connection 1, type of mounting             | Screw-type lock<br>not rotatable               |
| Electrical connection 1, type of mounting             | Compatible with rotatable screw-type lock      |
| Electrical connection for input 1, connection pattern | 00995383                                       |
| Type of mounting                                      | With internal thread<br>With accessories       |
| Pneumatic connection                                  | Internal thread G1/4                           |
| Product weight  | 230 g  |
| Housing material                                      | ABS<br>High-alloy stainless steel              |
| Materials in contact with the media                   | High-alloy stainless steel                     |
| 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                             |