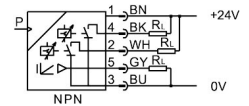


# Pressure sensor SPAW-B2R-G14F-2NA-M12

Part number: 8022812

**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                        | Piezoresistive pressure sensor                                                  |
| Pressure measuring range initial value       | -0.1 MPa<br>-1 bar<br>-14.5 psi                                                 |
| Pressure measuring range end value           | 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 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                                                                          |
| Analog output                                | 4 - 20 mA                                                                       |
| Rise time                                    | 3 ms                                                                            |
| Short-circuit protection                     | Yes                                                                             |
| DC operating voltage range                   | 15 V...35 V                                                                     |
| Reverse polarity protection                  | For operating voltage                                                           |

| Feature                                        | Value                                                                         |
|------------------------------------------------|-------------------------------------------------------------------------------|
| 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                                                                             |
| Electrical connection 1, type of mounting      | Screw-type lock<br>not rotatable<br>Compatible with rotatable screw-type lock |
| Type of mounting                               | With internal thread<br>With accessories                                      |
| Mounting position                              | Any                                                                           |
| 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-digit, alphanumeric<br>LED indicator                                        |
| Displayable unit(s)                            | 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 - Particularly high corrosion stress                                        |
| LABS (PWIS) conformity                         | VDMA24364 Zone III                                                            |