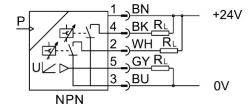


# Pressure sensor SPAW-P16R-G12M-2NV-M12

Part number: 8022844

**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 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                                                 |
| Pressure measuring range initial value         | 0 bar                                                 |
| Pressure measuring range initial value         | 0 psi                                                 |
| Pressure measuring range end value             | 1.6 MPa                                               |
| Pressure measuring range end value             | 16 bar                                                |
| Pressure measuring range end value             | 232 psi                                               |
| Overload pressure                              | 3.2 MPa                                               |
| Overload pressure                              | 32 bar                                                |
| Overload pressure                              | 464 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 screw lock rotatable           |
| Electrical connection for input 1, connection pattern | 00995383                                       |
| Type of mounting                                      | With external thread                           |
| Pneumatic connection                                  | External thread G1/2                           |
| Product weight                                        | 230 g                                          |
| Housing material                                      | 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                             |