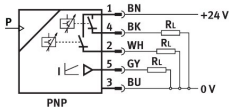
# Pressure sensor
# SPAW-B11R-G14F-2PA-M12

Part number: 8022777






## 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 | Metal thin-film pressure sensor |
| Pressure measuring range initial value | -0.1 MPa<br>-1 bar<br>-14.5 psi |
| Pressure measuring range end value | 1 MPa<br>10 bar<br>145 psi |
| Overload pressure | 2 MPa<br>20 bar<br>290 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 | 2xPNP |
| 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/cm²<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 |