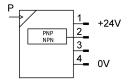
Pressure sensor SPAN-B-V1R-G18M-PN-L1+2.5S

Part number: 8114767







Data sheet

| CULus - Listed (OL) CE marking (see declaration of conformity) As per EU BMC directive As per EU RMC directive As per EU RMC directive DKCA marking (see declaration of conformity) To UK Instructions for EMC To UK RoHS instructions Note on materials Rel-Scompliant Measured variable Relative pressure Method of measurement Pressure measuring range initial value O MPa O bar O psi Pressure measuring range end value | Feature | Value |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|-----------------------------------------|
| As per EU RoHS directive UKCA marking (see declaration of conformity) To UK instructions for EMC To UK ROHS instructions RoHS-compliant Measured variable Relative pressure Method of measurement Pressure measuring range initial value O MPa O bar O psi Pressure measuring range end value -0.1 MPa -14.5 psi Max. overload pressure Overload pressure Overload pressure Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Intert gas Information on operating and pilot media Operation with oil lubrication possible Temperature of medium O °C50 °C Ambient temperature Accuracy in ± % FS Repetition accuracy in ± % FS Repetition accuracy in ± % FS Femperature co-efficient in ± % FS/K Switching output PNP/NPN switchable Switching function Mindow comparator Threshold value comparator | Certification | |
| To UK ROHS instructions Note on materials Measured variable Method of measurement Pressure measuring range initial value Pressure measuring range end value Pressure S bar 72.5 psi Overload pressure Doyenating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Inert gas Information on operating and pilot media Operation with oil lubrication possible Premperature of medium O °C50 °C Accuracy in ± % FS Repetition accuracy in ± % FS Repetition accuracy in ± % FS O.3 % FS Temperature co-efficient in ± % FS/K Switching output PNP/NPN switchable Switching function Window comparator Threshold value comparator Threshold value comparator Switching element function Max. output current So max Short-circuit protection | CE marking (see declaration of conformity) | |
| Measured variable Relative pressure Method of measurement Piezoresistive pressure sensor Pressure measuring range initial value 0 MPa 0 bar 0 psi Pressure measuring range end value -0.1 MPa - 1 bar 1.4.5 psi Max. overload pressure 5 bar Ooverload pressure 0.5 MPa 5 bar 72.5 psi Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Inert gas Information on operating and pilot media Operation with oil lubrication possible Temperature of medium 0 °C50 °C Ambient temperature 0 °C50 °C Accuracy in ± % FS 1.5 %FS Repetition accuracy in ± %FS 0.3 %FS Temperature co-efficient in ± %FS/K 0.1 %FS/K Switching output PNP/NPN switchable Switching function Window comparator Threshold value comparator Threshold value comparator Threshold value comparator Switching element function N/C contact/N/O contact switchable Max. output current 80 mA Short-circuit protection yes | UKCA marking (see declaration of conformity) | |
| Method of measurement Pressure measuring range initial value O MPa O bar O psi Pressure measuring range end value Pressure measuring range end value O-0.1 MPa -1 bar -14.5 psi Max. overload pressure 5 bar Overload pressure O,5 MPa 5 bar 72.5 psi Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Inert gas Information on operating and pilot media Operation with oil lubrication possible Temperature of medium O° C50 °C Ambient temperature O° C50 °C Accuracy in ± % FS Repetition accuracy in ± % FS Repetition accuracy in ± % FS Temperature co-efficient in ± % FS/K O.1 % FS/K Switching output PNP/NPN switchable Switching function Window comparator Threshold value comparator Switching element function M/C contact/N/O contact switchable Max. output current 80 mA Short-circuit protection | Note on materials | RoHS-compliant |
| Pressure measuring range initial value O MPa O bar O psi Pressure measuring range end value -0.1 MPa -1 bar -14.5 psi Max. overload pressure Overload pressure Overload pressure Ocerload pressure Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Inert gas Information on operating and pilot media Operation with oil lubrication possible Temperature of medium O °C50 °C Ambient temperature O °C50 °C Accuracy in ± % FS Repetition accuracy in ± %FS Temperature co-efficient in ± %FS/K O.1 %FS/K Switching output Switching function Window comparator Threshold value comparator Threshold value comparator Switching element function Max. output current 80 mA Short-circuit protection | Measured variable | Relative pressure |
| O bar O psi Pressure measuring range end value -0.1 MPa - 1 bar - 14.5 psi Max. overload pressure 5 bar Overload pressure 0.5 MPa 5 bar 72.5 psi Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Inert gas Information on operating and pilot media Operation with oil lubrication possible Temperature of medium 0°C50°C Ambient temperature 0°C50°C Accuracy in ± % FS 1.5 %FS Repetition accuracy in ± %FS Temperature co-efficient in ± %FS/K Switching output Switching output Switching function Mricontact witchable Switching lement function M/C contact/N/O contact switchable Max. output current 80 mA Short-circuit protection | Method of measurement | Piezoresistive pressure sensor |
| -1 bar -14.5 psi Max. overload pressure 5 bar Overload pressure 0.5 MPa 5 bar 72.5 psi Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Inert gas Information on operating and pilot media Operation with oil lubrication possible Temperature of medium 0 °C50 °C Ambient temperature 0 °C50 °C Accuracy in ± % FS 1.5 %FS Repetition accuracy in ± %FS Temperature co-efficient in ± %FS/K Switching output PNP/NPN switchable Switching function Window comparator Threshold value comparator Threshold value comparator Switching element function M/C contact/N/O contact switchable Max. output current 80 mA Short-circuit protection | Pressure measuring range initial value | 0 bar |
| Overload pressure Overload pressure Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Inert gas Information on operating and pilot media Operation with oil lubrication possible Temperature of medium O°C50°C Ambient temperature O°C50°C Accuracy in ± % FS 1.5 % FS Repetition accuracy in ± % FS Temperature co-efficient in ± % FS/K Switching output PNP/NPN switchable Switching function Window comparator Threshold value comparator Switching element function M/C contact/N/O contact switchable Max. output current So mA Short-circuit protection | Pressure measuring range end value | -1 bar |
| 5 bar 72.5 psi Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Inert gas Information on operating and pilot media Operating with oil lubrication possible Temperature of medium O°C50°C Ambient temperature O°C50°C Accuracy in ± % FS 1.5 % FS Repetition accuracy in ± % FS Temperature co-efficient in ± % FS/K Switching output PNP/NPN switchable Switching function Window comparator Threshold value comparator Switching element function M/C contact/N/O contact switchable Max. output current 80 mA Short-circuit protection | Max. overload pressure | 5 bar |
| Inert gas Information on operating and pilot media Operation with oil lubrication possible O °C50 °C Ambient temperature O °C50 °C Accuracy in ± % FS I.5 %FS Repetition accuracy in ± %FS Temperature co-efficient in ± %FS/K Switching output PNP/NPN switchable Switching function Window comparator Threshold value comparator Switching element function MyC contact/N/O contact switchable Max. output current 80 mA Short-circuit protection Ves | Overload pressure | 5 bar |
| Temperature of medium 0 °C50 °C Ambient temperature 0 °C50 °C Accuracy in ± % FS 1.5 %FS Repetition accuracy in ± %FS Temperature co-efficient in ± %FS/K Switching output PNP/NPN switchable Switching function Window comparator Threshold value comparator Switching element function MyC contact/N/O contact switchable Max. output current 80 mA Short-circuit protection yes | Operating medium | |
| Ambient temperature 0 °C50 °C Accuracy in ± % FS Repetition accuracy in ± % FS Repetition accuracy in ± % FS O.3 % FS Temperature co-efficient in ± % FS/K Switching output PNP/NPN switchable Switching function Window comparator Threshold value comparator Switching element function N/C contact/N/O contact switchable Max. output current 80 mA Short-circuit protection yes | Information on operating and pilot media | Operation with oil lubrication possible |
| Accuracy in ± % FS Repetition accuracy in ± %FS O.3 %FS Temperature co-efficient in ± %FS/K Switching output PNP/NPN switchable Switching function Window comparator Threshold value comparator Switching element function N/C contact/N/O contact switchable Max. output current 80 mA Short-circuit protection yes | Temperature of medium | 0 °C50 °C |
| Repetition accuracy in ± %FS Temperature co-efficient in ± %FS/K Switching output PNP/NPN switchable Switching function Window comparator Threshold value comparator Switching element function N/C contact/N/O contact switchable Max. output current 80 mA Short-circuit protection yes | Ambient temperature | 0 ℃50 ℃ |
| Temperature co-efficient in ± %FS/K Switching output PNP/NPN switchable Switching function Window comparator Threshold value comparator Switching element function N/C contact/N/O contact switchable Max. output current 80 mA Short-circuit protection yes | Accuracy in ± % FS | 1.5 %FS |
| Switching output PNP/NPN switchable Switching function Window comparator Threshold value comparator Switching element function N/C contact/N/O contact switchable Max. output current 80 mA Short-circuit protection yes | Repetition accuracy in ± %FS | 0.3 %FS |
| Switching function Window comparator Threshold value comparator Switching element function N/C contact /N/O contact switchable Max. output current 80 mA Short-circuit protection yes | Temperature co-efficient in ± %FS/K | 0.1 %FS/K |
| Threshold value comparator Switching element function N/C contact switchable Max. output current 80 mA Short-circuit protection yes | Switching output | PNP/NPN switchable |
| Max. output current 80 mA Short-circuit protection yes | Switching function | |
| Short-circuit protection yes | Switching element function | N/C contact/N/O contact switchable |
| · | Max. output current | 80 mA |
| DC operating voltage range 10.8 V30 V | Short-circuit protection | yes |
| | DC operating voltage range | 10.8 V30 V |

| Feature | Value |
|------------------------------------------------|------------------------------------------------------------|
| Reverse polarity protection | for all electrical connections |
| Electrical connection 1, connection type | Plug |
| Electrical connection 1, connection technology | Connection diagram L1J |
| Electrical connection 1, number of pins/wires | 4 |
| Type of mounting | Front panel mounting With thread With wall/surface bracket |
| Mounting position | Any |
| Pneumatic connection | External thread G1/8 |
| Product weight | 31 g |
| Housing material | PA-reinforced |
| Materials in contact with the media | FPM Brass, nickel-plated PA-reinforced |
| Display type | Illuminated LCD |
| Displayable unit(s) | MPa bar inHg kPa mmHg psi |
| Setting options | Teach-in Via display and pushbuttons |
| Protection against tampering | PIN code |
| Setting range threshold value | 0 %100 % |
| Setting range hysteresis | 0 %90 % |
| Degree of protection | IP40 |
| Corrosion resistance class (CRC) | 2 - Moderate corrosion stress |
| LABS (PWIS) conformity | VDMA24364-B1/B2-L |
| Cleanroom class | Class 4 according to ISO 14644-1 |