

DATASHEET

SPD015SAsilUBS Pressure Sensor

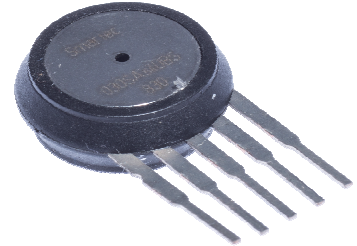
last update
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reference
SPD015SAsilUBS

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DIFFERENTIAL PRESSURE SENSOR WITH COMPENSATED ANALOGUE OUTPUT

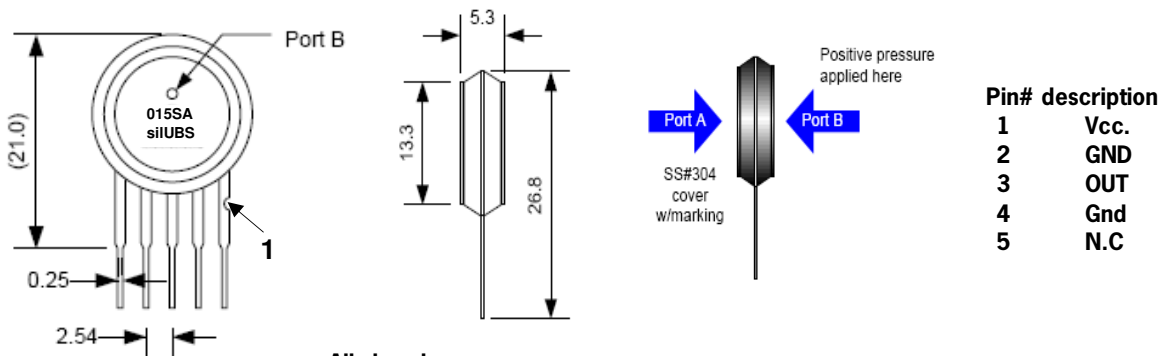
This Smartec pressure sensor has an amplified analogue output. The sensor is compensated for offset, sensitivity, temperature drift and nonlinearity. The sensor is calibrated on 14.5 PSI. The output is ratiometric to the power supply voltage.



Electrical Characteristics

| Parameter | Min | Typ | Max | Units. |
|-------------------------------|-------|------|-------|----------------|
| Supply Voltage | 4.75 | 5.00 | 5.25 | V |
| Supply Current | - | 2,5 | | mA |
| Pressure range (fs) | 0 | | 14.5 | psi |
| Zero Output (0 psi) | 0,119 | 0,2 | 0,281 | Vdc |
| Full scale Output (@14.5 PSI) | | 4,7 | | Vdc |
| Accuracy | | | 1,8 | %FS |
| Linearity | -0,5 | | 0,5 | %FS |
| Thermal Hysteresis | -0,15 | | 0,15 | %FS |
| response time | | 1 | 2 | ms |
| Overpressure | | | 3x | Rated pressure |
| Temp compensation | 0 | | 50 | °C |
| Operating Temp range | -20 | | 70 | °C |
| Storage temperature | -40 | | 125 | °C |

- Accuracy includes all errors (0 - 50 °C)
- Wetted material contains RTV, PPA, glass and silicon



All sizes in mm
Use of N.C. pins will cause malfunction
Connect between Vcc and Gnd a capacitor of 100 nF