

DATASHEET

SPD025SAsilUBS Pressure Sensor

last update
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reference
SPD025SAsilUBS

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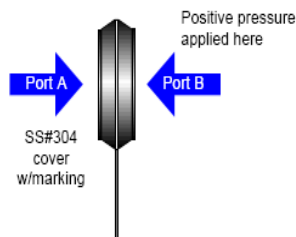
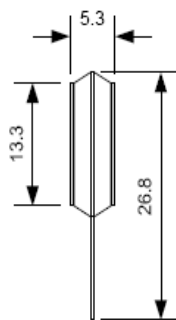
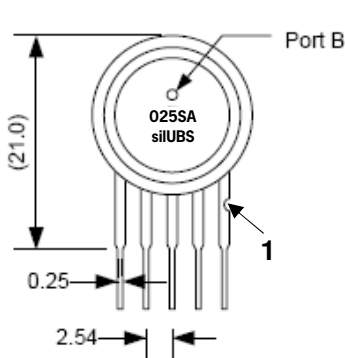
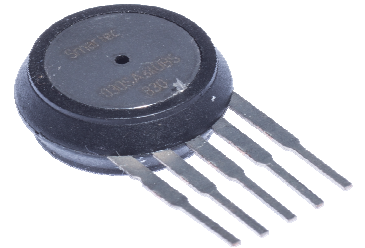
DIFFERENTIAL PRESSURE SENSOR WITH COMPENSATED ANALOGUE OUTPUT

This Smartec pressure sensor has an amplified analogue output. The sensor is compensated for offset, sensitivity, temperature drift and nonlinearity. The sensor has a range of 25 PSI differential single version and the output is ratiometric to the power supply voltage. Other pressure ranges on request.

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		25	psi
Zero Output (0 psi)	0,119	0,2	0,281	Vdc
Span Output (FS)		4,5		Vdc
Accuracy			1,8	%FS
Linearity	-0,5		0,5	%FS
Thermal Hysteresis	-0,15		0,15	%FS
response time		1	2	ms
Overpressure			2x	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



Pin#	description
1	Vcc.
2	GND
3	OUT
4	Gnd
5	N.C

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