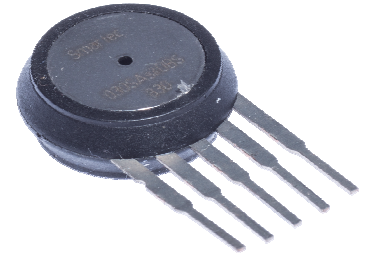


DIFFERENTIAL PRESSURE SENSOR WITH COMPENSATED ANALOGUE OUTPUT

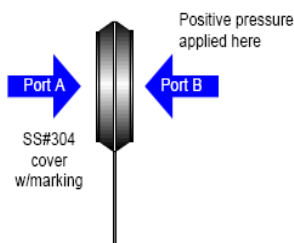
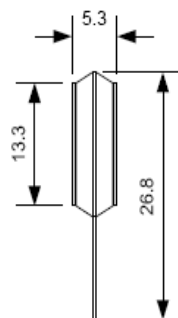
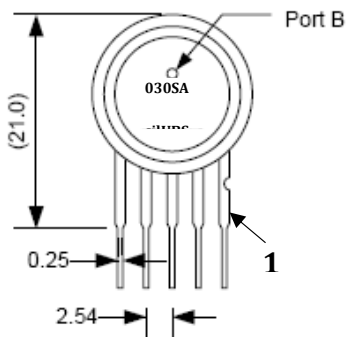
This Smartec pressure sensor has an amplified analogue output. The sensor is compensated for offset, sensitivity, temperature drift and nonlinearity. The sensor is calibrated on 30 PSI. The output is ratiometric to the power supply voltage.



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		30	psi
Zero Output (0 psi)	0,119	0,2	0,281	Vdc
Full scale output (@30 PSI)		4,9		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