### DATASHEET

# SPD030DAhybSM Pressure Sensor **Preliminary**

last update October 5, 2016

reference spd030dahybsm n

1/1

#### SPECIAL LOW PRESSURE RANGE DIFFERENTIAL SENSOR WITH **ANALOGUE OUTPUT**

This Smartec differential pressure sensor has an amplified analogue output. The sensor is compensated for offset, sensitivity, temperature drift and nonlinearity.

The sensor has a range of 30 PSI FS and the output is ratiometric to the power supply voltage. Other pressure ranges on request (0.3 – 100 PSI).

The pin out is compatible to the analogue version of the SMI5812 series

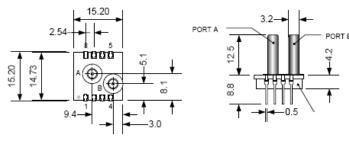
## **Electrical Characteristics**

Performance Characteristic at Vcc =5V excitation @ 25 °C.

Parameter	Min	Тур	Max	Units.
Supply Voltage	4.75	5.00	5.25	V
Supply Current	-		2.0	mA
Pressure range (fs)		30		PSI
Zero Output (Dif)	2.45	2.50	2.55	Vdc
Span Output (Dif)	1.95	2.00	2.05	Vdc
Response time		2		ms
Linearity	-0.5		+0.5	%FS
Thermal Hysteresis	-0.1		+0.1	%FS
Temp coeff. Offset	-1		+1	%FS
Temp coeff. Span	-2		+2	%FS
Pressure overload			3X	rating
Temp compensation	0		50	•c
Operating Temp range	-20		70	•c
Storage temperature	-40		125	•c

It is advised to place a 100nF capacitor between GND and Vcc Wetted materials are: Pyrex glass, RTV, Ceramic, Nickel and Silicon

#### Dimension





- Port A is used for positive differential
- 3. Port B is not used for gage

Connect between Vss and Vdd a capacitor of 100 nF

**GND** NC 6 3 NC 7 Vcc

NC 4 Analogue out



