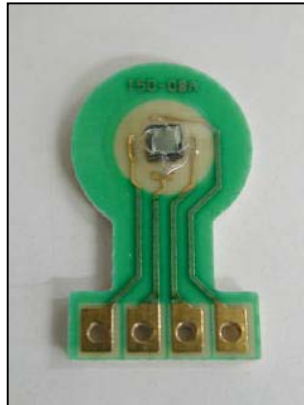


Sencera Co., Ltd.

錫麟企業有限公司

www.sensorelement.com Email: justinel@ms14.hinet.net Tel:886-2-27046595 Fx:886-2-27041279

COB Pressure Sensor



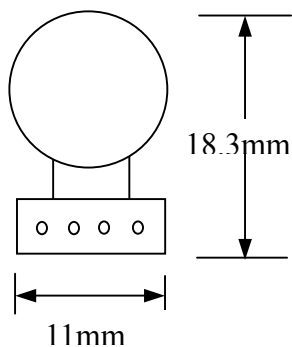
FEATURES

- Low Cost Sensor Element
- Solid State Reliability
- Absolute Pressure
- Constant Voltage or Constant Current Drive

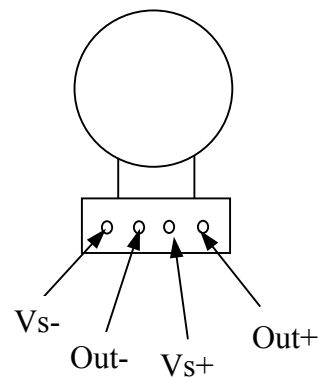
APPLICATIONS

- Altimeters
- Weather Station
- Pneumatic Control
- Cable Fault Detection

DIMENSION



ELECTRICAL CONNETION



Characteristics:

This specification is based on a nominal 5V supply, Since the pressure sensor is a ratiometric device, voltage measurements need to be appropriately scaled for operating conditions as supplies other than 5V.

Parameter	Value	Units	Notes
General			
Pressure Range	150 / 300	Psi	
Maximum Overpressure	750	Psi	rated pressure
Electrical			
Excitation	5	VDC	
Input Impedance	4.5~5.5	k Ω	
Output Impedance	4.5~5.5	k Ω	
Environmental			
Operating Temperature Range	-40~+125	$^{\circ}\text{C}$	-40 $^{\circ}\text{F}$ ~+257 $^{\circ}\text{F}$
Storage Temperature Range	-40~+125	$^{\circ}\text{C}$	-40 $^{\circ}\text{F}$ ~+257 $^{\circ}\text{F}$
Mechanical			
Media Compatibility	Clean, dry air & noncorrosive gases		
PERFORMANCE			
Zero Offset	± 15	mV/V	
Span	145 \pm 45/290 \pm 45	mV	See note 1
Bridge Resistance	4.5~5.5	k Ω	
Sensitivity	0.193 \pm 0.6	mV/V/psi	See note 1
Non-Linearity	-2.5~2.5	%FS	See note 1 See note 2
	-1~1	%FS	See note 3
	-0.2~0.2	%FS	See note 1 See note 4
Temperature Coefficient of Zero Offset	-215~85	$\mu\text{V/V}/^{\circ}\text{C}$	
Temperature Coefficient of Span	-0.22 \pm 0.06	%FS/ $^{\circ}\text{C}$	

All parameter are tested at 5V supply. Parameters are additionally tested at 5V as indicated.

Sencera Co., Ltd.

錫麟企業有限公司

www.sensorelement.com Email: justinel@ms14.hinet.net Tel:886-2-27046595 Fx:886-2-27041279

Notes:

1. Tested at 5V supply
2. Difference between pressure at span and 0 psi. this corresponds to the maximum discrepancy possible due to device non-linearity.
3. Difference between pressure linearly approximated and the actual pressure over the span of the sensor, measured as a percentage of the full scale output.
4. Difference between pressure linearly approximated and the actual pressure over the application pressure range, measured as a percentage of the full scale output.