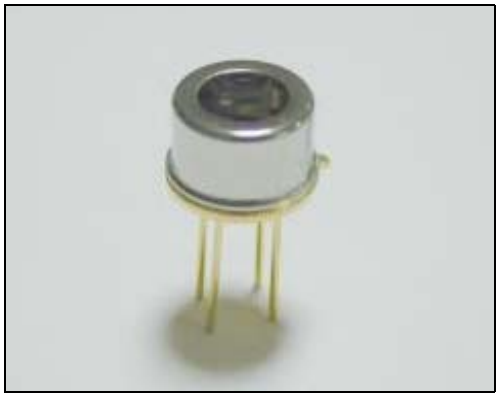
Sencera Co., LTd.　　錫麟企業有限公司
www.sensorelement.com Email: justinel@ms14.hinet.net Tel:886-2-27046595 Fx:886-2-27041279

STS Pressure Sensor



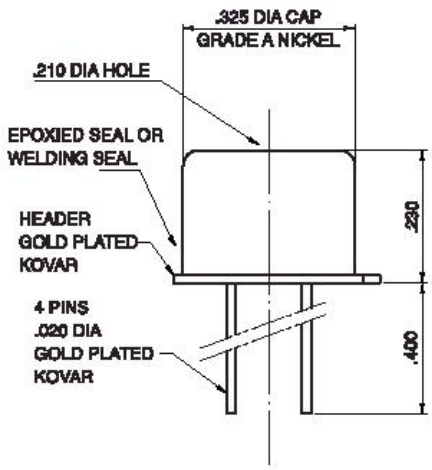
FEATURES

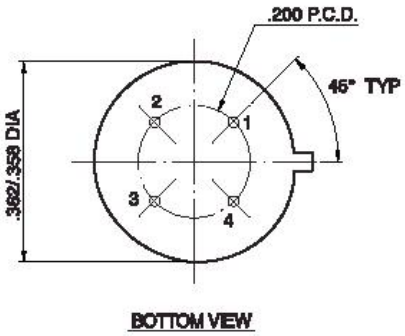
Low Cost Sensor Element
High Performance
Absolute Pressure

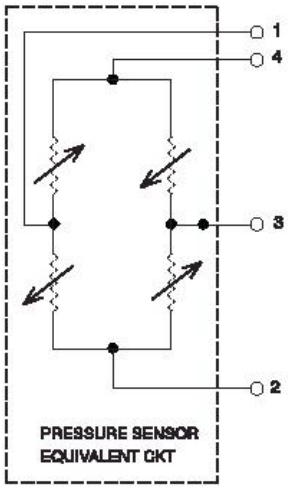
APPLICATIONS

Altimeters
Weather Station
Pneumatic Control
Cable Fault Detection

DIMENSION







PIN#	PIN OUT
1	Vs-
2	Out+
3	Vs+
4	Out -

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

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	kΩ	
Output Impedance	4.5~5.5	kΩ	
Environmental			
Operating Temperature Range	-40~+125	°C	-40 °F ~+257°F
Storage Temperature Range	-40~+125	°C	-40 °F ~+257 °F
Mechanical			
Media Compatibility	Clean, dry air & noncorrosive gases		
PERFORMANCE			
Zero Offset	±15	mV/V	
Span	145±45/290±45	mV	See note 1
Bridge Resistance	4.5~5.5	kΩ	
Sensitivity	0.193±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	uV/V/°C	
Temperature Coefficient of Span	-0.22±0.06	%FS/°C	

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

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.