



- Absolute and gauge ranges
- Stainless steel construction
- High frequency response
- For static and dynamic applications
- Linearity & Hysteresis up to $\pm 0.5\%$ FSO

Description

These miniature pressure sensors are designed to make static and dynamic measurements of pressure. The Stainless-Steel construction makes these flush membrane sensors suitable for use in applications where available space is at a premium.

Characteristics

Flush diaphragm
Ø3.56mm
Cable
Miniature design

Applications

General laboratory testing
Robotics and machine control
Automotive testing
Marine and Flight testing

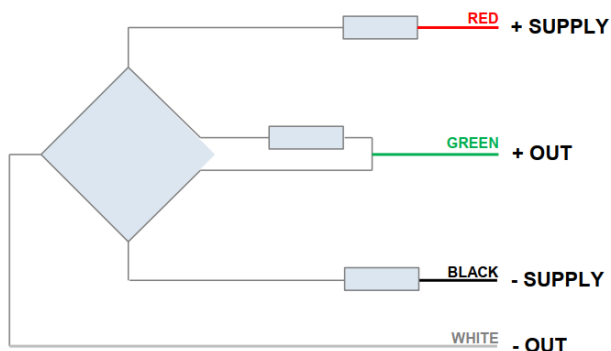
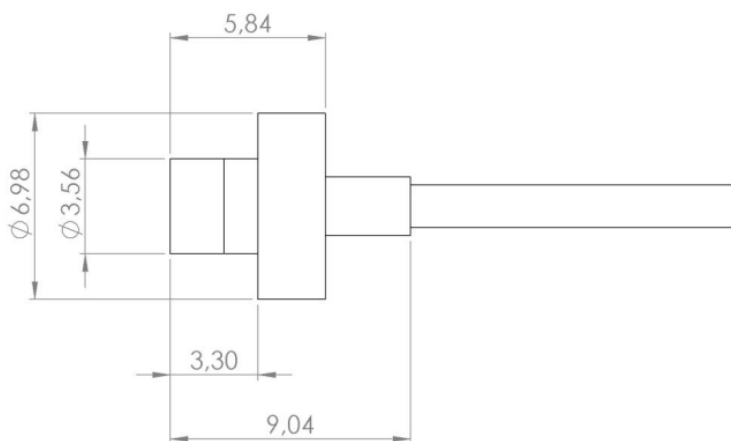
Standard Ranges

Pressure (FS in bar)	Pressure (FS in PSI)	Pressure limit	Resonant Frequency	Ouput	Combined Non-linearity & Hysteresis	Thermal Zero Shift/50°C
0.3	5	10 x FS	55 kHz	11mV $\pm$ 4mV	$\pm 1\%$	$\pm 2\text{mV}$
0.7	10	5 x FS	55 kHz	22mV $\pm$ 8mV	$\pm 1\%$	$\pm 2\text{mV}$
1	15	3.5 x FS	55 kHz	33mV $\pm$ 8mV	$\pm 1\%$	$\pm 2\text{mV}$
1.7	25	2 x FS	55 kHz	55mV $\pm$ 8mV	$\pm 1\%$	$\pm 2\text{mV}$
3.5	50	2 x FS	60 kHz	60mV $\pm$ 8mV	$\pm 1\%$	$\pm 2\text{mV}$
7	100	2 x FS	70 kHz	68.75mV $\pm$ 8mV	$\pm 0.75\%$	$\pm 1.5\% \text{FS}$
17	250	2 x FS	100 kHz	68.75mV $\pm$ 8mV	$\pm 0.5\%$	$\pm 1.5\% \text{FS}$
35	500	2 x FS	150 kHz	68.75mV $\pm$ 8mV	$\pm 0.5\%$	$\pm 1.5\% \text{FS}$
70	1000	2 x FS	200 kHz	68.75mV $\pm$ 8mV	$\pm 0.5\%$	$\pm 1.5\% \text{FS}$
140	2000	2 x FS	250 kHz	68.75mV $\pm$ 8mV	$\pm 0.5\%$	$\pm 1.5\% \text{FS}$
170	2500	2 x FS	300 kHz	68.75mV $\pm$ 8mV	$\pm 0.5\%$	$\pm 1.5\% \text{FS}$
350	5000	2 x FS	450 kHz	68.75mV $\pm$ 8mV	$\pm 0.5\%$	$\pm 1.5\% \text{FS}$

Specification

Parameters	Value	Notes
Supply Voltage	5Vdc regulated	10Vdc (Option)
Pressure Reference	Absolute or Gauge	
Repeatability	$\pm 0.25\%$ FS	
Operating Temperature	-40°C to 120°C	
Compensated Temperature	20°C to 80°C (See Options for other Compensated Temperatures)	
Thermal Sensitivity Shift	$< \pm 2\%$ / 60°C	
Zero Offset At 20°C	$\pm 10\text{mV}$	
Insulation	$> 100\text{M}\Omega$ / 50Vdc	
Input Impedance	1200 Ω nominal	
Output Impedance	350 Ω nominal	
Material	Z8CND17-4 Stainless Steel	
Electrical Connection	609mm length 4 conductor AWG34 cable without sheath	
Seal	Viton O-ring 3.68x1.78 80 shore A (seal included)	

Dimension & Wiring Schematic (mm)



Options

L00M: special length, replace "00" with total length in metres (610mm standard)
L00F: special length, replace "00" with total length in ft (2ft standard)
10V: 10Vdc excitation
C1: Compensated temperature -40° to 20°C

Order information

P	A	PB	350	B	/L05M
Model	Pressure reference	Model	Pressure range (Bar/Psi)	Unit	Options
P	A, R	PB	0.3/5	B: Bar	L00M
	A, R		0.7/10	P: PSI	L00F
	A, R		1/15		10V
	A, R		1.7/25		C1
	A, R		3.5/50		
	A, R		7/100		
	A, R		17/250		
	A, R		35/500		
	A, R		70/1000		
	A, R		140/2000		
	A, R		170/2500		
	A, R		350/5000		

A: Absolute, R: Gauge (Relative)

Example: **PAPB50P/L05M10VC1**

- Absolute
- 50 PSI
- 5m cable output
- 10V excitation
- Compensated temperature: -40°C to 20°C
- Output: 120 mV $\pm$ 16mV