



- Absolute, sealed and gauge ranges
- 1 to 350 bar [15 psi to 5000 psi]
- Stainless steel construction
- Amplified output available
- For static and dynamic applications
- Combined Linearity & Hysteresis up to $\pm 0.5\%$ FSO

Description

These miniature pressure sensors are designed to measure static & dynamic pressure under a wide variety of conditions. Constructed entirely of stainless steel, these flush membrane sensors with their fully welded design, are compatible with a number of corrosive or conducting fluids. Integrated electronics makes it possible to deliver mV, voltage or current output signal.

Characteristics

Flush diaphragm
M10x1
Cable
Miniature design

Applications

Hydraulic test rigs
Explosion test benches
Braking system
Laboratory and research

Standard Ranges

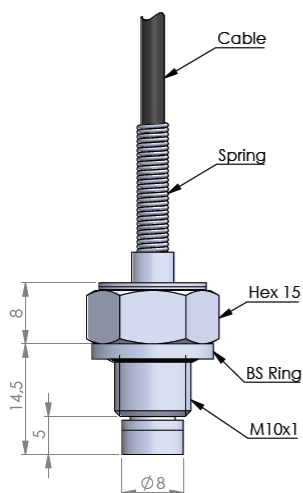
Pressure (FS in bar)	Pressure (FS in PSI)	Absolute	Gauge	Sealed	Combined Linearity & Hysteresis	Resonant Frequency
1	15	•	•	•	$\pm 0.5\%$	30 kHz
2	30	•	•	•	$\pm 0.5\%$	30 kHz
5	75	•	•	•	$\pm 0.5\%$	35 kHz
10	150	•	•	•	$\pm 0.5\%$	50 kHz
20	300	•	•	•	$\pm 0.5\%$	69 kHz
35	500	•	•	•	$\pm 0.5\%$	79 kHz
50	750	•	•	•	$\pm 0.5\%$	109 kHz
100	1500			•	$\pm 0.5\%$	154 kHz
200	3000			•	$\pm 0.5\%$	218 kHz
350	5000			•	$\pm 0.5\%$	288 kHz

Specification

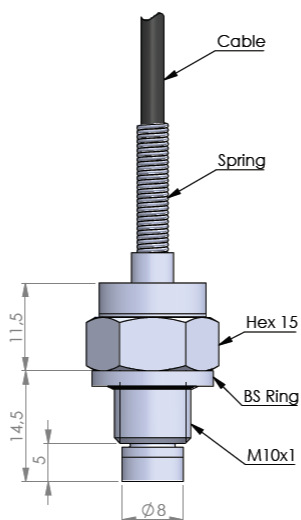
Model	mV output	Amplified output - 5V	Current output - mA
Over Pressure	2 Times Rated Pressure		
Burst Pressure	5 Times Rated Pressure (3 Times Rated Pressure at 350 Bar)		
Material	Z8CND17-4 Stainless Steel		
Supply Voltage	10 Vdc regulated	13 – 32 Vdc	10 – 26 Vdc
Full Scale Output (FS)	100 mV (50 mV at 1 BAR)	5 Vdc $\pm$ 150 mV	20 mA $\pm$ 0.4 mA
Input Impedance /Current Consumption	500 – 1500 Ω	< 30 mA	
Output Impedance	500 – 800 Ω	1 k Ω	1 k Ω
Zero Offset At 20 °C	$\pm$ 1 mV/V	0 to 100 mV	4 mA $\pm$ 0.4 mA
Combined Non-Linearity & Hysteresis	$\pm$ 0.5% FS (Max)		
Repeatability	$\pm$ 0.2% FS		
Insulation	> 100 M Ω @ 50 Vdc		
Operating Temperature	-40 °C to 120 °C	-40 to 80°C	-20 to 80°C
Compensated Temperature	0°C to 60°C (See Options for other Compensated Temperatures)		
Thermal Zero Shift	< $\pm$ 3% FS / 50°C		
Thermal Sensitivity Shift	< $\pm$ 2% FS / 50°C		
Bandwidth (-3dB)	3kHz for voltage & current output		
Electrical Connection	2m length 4 conductor 28 AWG Silicone shielded cable (See options for other cable length)		
Mechanical Connection	M10x1		
Ingress Protection	IP50 (See options for other index of protection)		
Pressure Sensing Principle	Fully active four arm Wheatstone bridge dielectrically isolated silicon on silicon		
Seal	British Standard (BS) Ring Ø15.88mm x 2mm (-40°C to 135°C) (seal included)		
Mounting Torque	10 Nm Max		

Dimension & Wiring Schematic (mm)

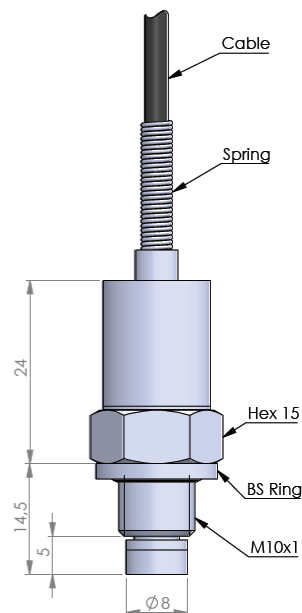
mV output



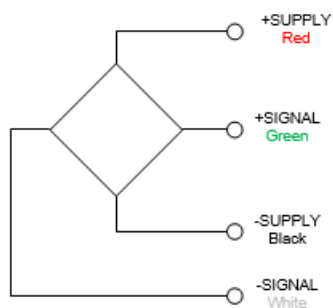
Amplified output



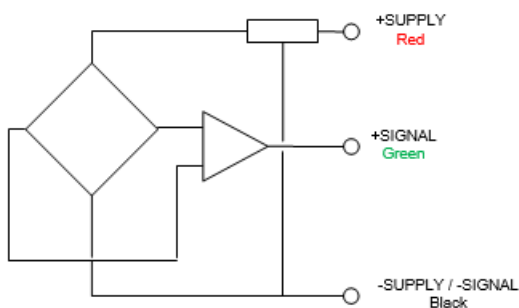
Current output



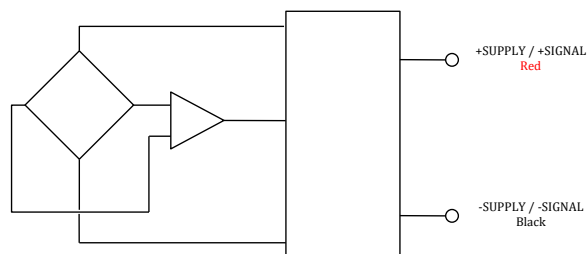
mV output



Amplified output



Current output



Options

L00M: special length, replace "00" with total length in metres (2 metres standard)
L00F: special length, replace "00" with total length in ft
C1: Compensated temperature -20° to 60°C
C2: Compensated temperature -40° to 120°C (mV output only)
Cx: Special compensation temperature, pls contact factory
P67: IP67 rating (only available for absolute or sealed type)

Order information

P	S	M10C	350	B	mV	/L5M
Model	Pressure reference	Model	Pressure range (Bar/Psi)	Unit	Output signal	Options
P	A, R, S	M10C	1/15	B: Bar	5V: 0-5V	L00M
	A, R, S		2/30	P: PSI	mV: mV/V	L00F
	A, R, S		5/75		mA: 4-20mA	C1
	A, R, S		10/150			C2
	A, R, S		35/500			P67
	A, R, S		50/750			
	S		100/1500			
	S		200/3000			
	S		350/5000			

A: Absolute, R: Gauge (Relative), S: Sealed Gauge

Example: **PAM10C5KP5V/L5MC1P67**

- Absolute
- Pressure Range: 0 - 5000 PSI
- Output: 0-5V
- 5m cable length
- Compensated temperature: -20°C to 60°C
- Index of protection: IP67