

# P-M5-Series

Miniature Pressure Sensor

Ref: 507

Rev: C



## DESCRIPTION

These miniature pressure sensors are designed to make static measurements of pressure as well as dynamic in corrosive condition. Realized entirely with titanium, these levelling membrane sensors are compatible with a great number of corrosive or conducting fluids. An integrated electronics makes it possible to deliver an analogical tension signal.

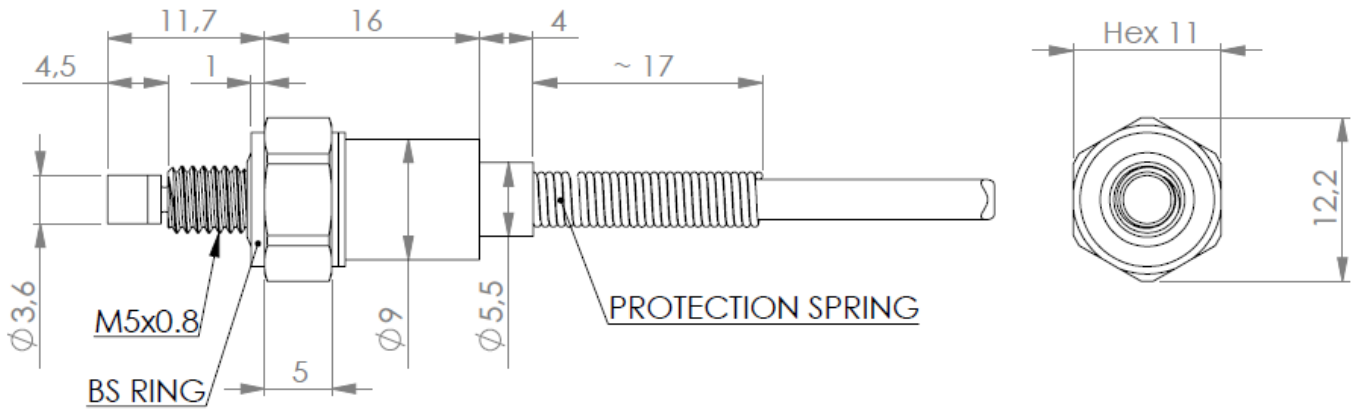
## TECHNICAL DATA

MODEL		Low level output – mV					Amplified output – 4V				
<b>INPUT</b>	BAR	0-2	0-5	0-10	0-20	0-35	0-50	0-100	0-200	0-350	
Pressure Range	PSI	0-30	0-75	0-150	0-300	0-500	0-750	0-1500	0-3000	0-5000	
Pressure Type		Absolute, Relative, Sealed									
Over Pressure		2 Times Rated Pressure									
Burst Pressure		5 Times Rated Pressure									
Electrical Input / Consumption		1500 Ω nominal					< 30 mA				
Supply voltage		10 Vdc regulated					10 – 32 Vdc				
<b>OUTPUT</b>											
Full Scale Output (FS)		30 mV (2 bar) / 100 mV (> 2 bar)					4 V ± 200 mV				
Output Impedance		500 to 800 Ω					1000 Ω				
Zero Offset at 20°C		± 10 mV					0.5 V ± 200 mV				
Linearity		± 0.25% FS / ± 0.5% FS for 2 bar (30 psi) model									
Hysteresis		± 0.25% FS / ± 0.5% FS for 2 bar (30 psi) model									
Repeatability		± 0.2% FS									
Insulation		> 100 MΩ @ 50 Vdc									
<b>ENVIRONMENTAL</b>											
Operating Temperatures		-40 °C to 120 °C									
Compensated Temperatures		0 °C to 60 °C (see Options for other Compensated Temperatures)									
Thermal Zero Shift		< ± 2.5% FS / 60 °C / < ± 5% for 2 bar (30 psi) model									
Thermal Sensitivity Shift		< ± 2.5% FS / 60 °C / < ± 5% for 2 bar (30 psi) model									
Resonance Frequency		100-800 kHz depending on range					/				
Bandwidth (-3dB)		/					3 kHz				
<b>PHYSICAL</b>											
Electrical Connection		4 Conductor AWG28 Shielded Cable 2m long (see Options for other Cable Length)									
Mechanical Connection		M5x0.8									
Index of Protection		IP50 (see Options for other Index of Protection)									
Sealing		BSRing OD: 10 mm W: 1 mm									
Mounting Torque		5 Nm nominal 10 Nm Max									

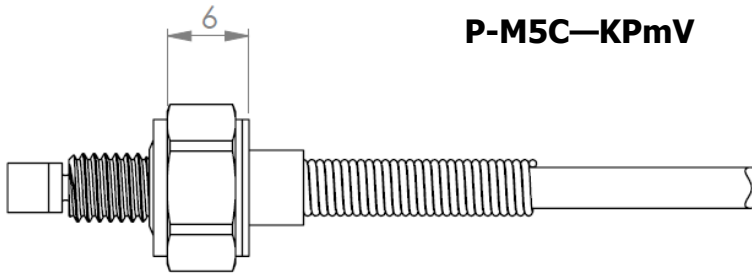
All values are typical at temperature 20 ± 1°C

SIZE (in mm)

**P-M5C—KP4V**

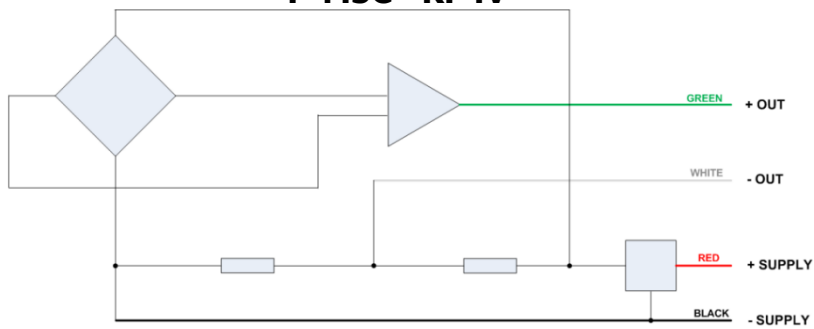


**P-M5C—KPmV**

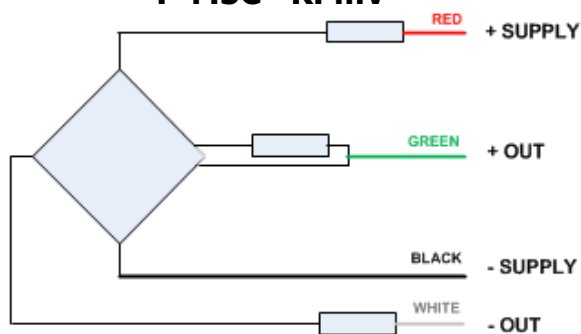


WIRING

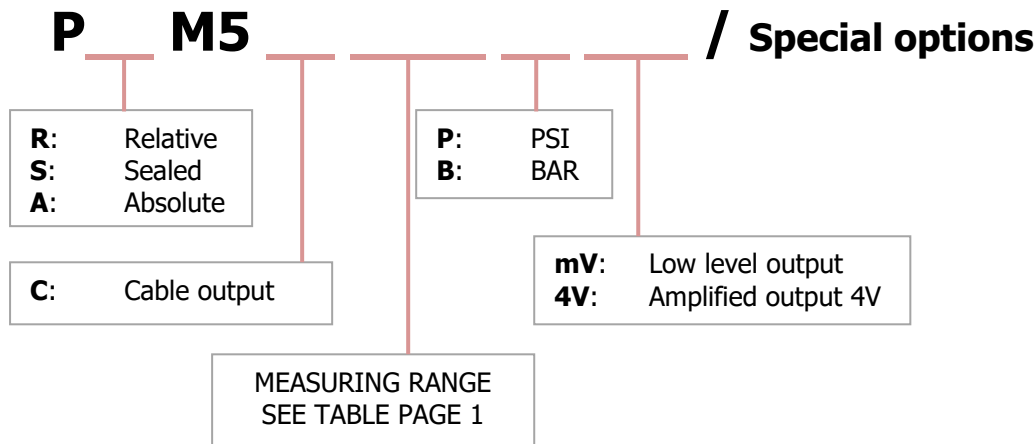
**P-M5C—KP4V**



**P-M5C—KPmV**



## ORDERING INFORMATION



- **Special options**

OPTION	value	FEATURES
Cable Length	<b>None</b>	Length in meters ( <b>M</b> ) or feet ( <b>F</b> ) 2m (standard)
Compensated temperature	<b>None</b> <b>C1</b> <b>C2</b>	0°C to +60°C (standard) -40°C to 60°C -40°C to 120°C
Index of Protection	<b>None</b> <b>P65</b> <b>P67</b>	IP50 (standard) IP65 IP67
Specific option	<b>X__</b>	Consult commercial

Example: **PSM5C5KP4V / 5MC1P67**

- Sealed
- Metric M5 Thread
- Cable output
- 5 000 Psi
- 4V FS output
- 5 meters cable length
- Compensated temperature : -40°C to 60°C
- Index of protection : IP67

## CONTACT

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