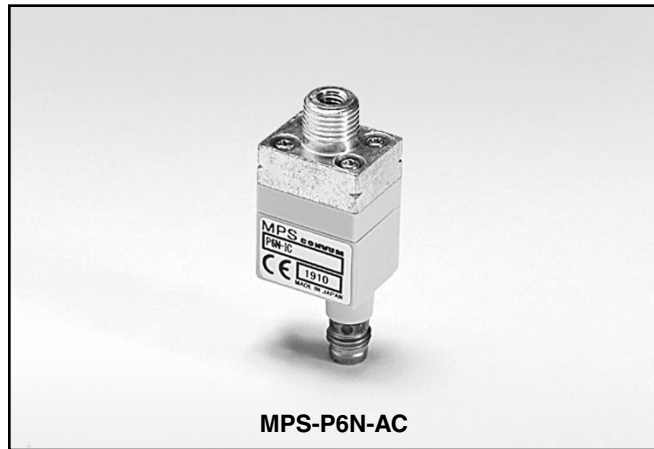
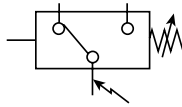
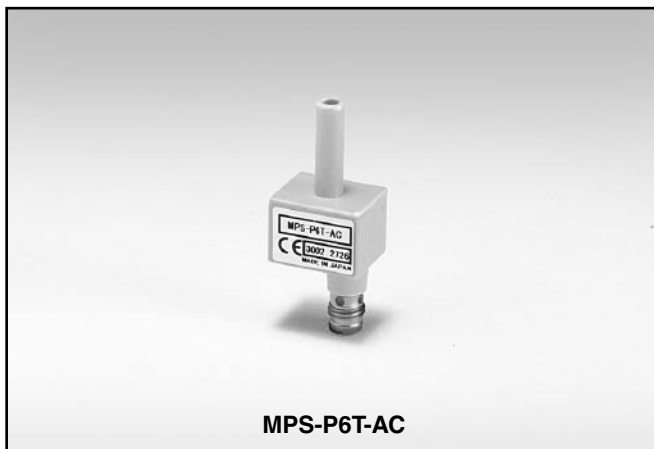




MPS-6



MPS-P6N-AC



MPS-P6T-AC

Features

- **Pressure Ranges:**
 Vacuum Pressure 0 to -30 inHg
 Positive Pressure 0 to 145 PSI
- **Sensor Outputs:**
 1 Open and 1 Closed NPN or PNP Open Collector Transistor Output, 30VDC, 125mA
 1 Analog Output, 1 to 5 VDC
- **Switch Point 2/3 Trimmer**
- **Fixed Hysteresis 2%**
- **Output Response Time Less Than 1 Millisecond**
- **Analog Output Type Compatible with MPS-7 Display**
- **CE Marked**
- **Air and Non-Corrosive Gases**

MPS-6 Programming Options

Fixed Outputs	✓
Units of Measure change	
EZY Mode	
Hysteresis Mode	✓
Window Comparator Mode	
Auto Teach Mode	
Auto Surveillance Mode	
Display Refresh Settings	
Output Response Time	
Display Peak / Bottom Difference Value	
Special Display Features	
Lockout Option	
Peak Value at a Touch	
Bottom Value at a Touch	
Zero Reset	
Red / Green LED Display Options	
Peak Surveillance Mode	
Energy Savings Mode	
Scan Mode	
Password Lockout	
Error Output Mode	
Setting of Decimal Point	



MPS-6 Ordering Numbers

Pressure Range	Port Size	Output Circuit	Electrical Connector	Part Number
0 to -30 inHg	1/8 NPSF*	PNP Sourcing	4 Pin, M8	MPS-V6N-PC
		NPN Sinking		MPS-V6N-NC
		1-5VDC analog		MPS-V6N-AC
	6mm Tube Stud	PNP Sourcing	4 Pin, M8	MPS-V6T-PC
		NPN Sinking		MPS-V6T-NC
		1-5VDC analog		MPS-V6T-AC
0 to 145 PSI	1/8 NPSF*	PNP Sourcing	4 Pin, M8	MPS-P6N-PC
		NPN Sinking		MPS-P6N-NC
		1-5VDC analog		MPS-P6N-AC
	6mm Tube Stud	PNP Sourcing	4 Pin, M8	MPS-P6T-PC
		NPN Sinking		MPS-P6T-NC
		1-5VDC analog		MPS-P6T-AC

* BSPP(G) and BSPT(R) are available. Replace N with G or R for port thread type
Example : MPS-V6N-PC (NPT) , MPS-V6G-PC (BSPP) or MPS-V6R-PC (BSPT)

Note: To connect MPS-6 Series Analog Sensor to MPS-7 Series Remote Panel Display, use M8 to AMP Connector Cable CB-M8-4P-2E.



Specifications

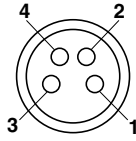
Media	Air and Non-Corrosives Gases
Pressure Port	(N) 1/8" NPT Male, (T) 6mm Tube Stud (Consult Factory for BSPP or BSPT Port)
Proof Pressure	(V) 72.5 PSI, (P) 217.5 PSI
Operating Temperature	32 to 122°F (0 to 50°C)
Storage Temperature	14 to 140°F (-10 to 60°C)
Humidity	35 to 85% RH
Electrical Connection	(C) 4-Pin, M8 Connector
Power Supply	10.8 to 30 VDC, Ripple Vp-p 10% max., Reverse Voltage Protection
Switch Output	1 Output Signal Open and Closed, NPN or PNP, 30VDC, 125mA
Linear Output	Analog Output 1 to 5 VDC
Switch Point Setting	2/3 Turn Trimmer
Hysteresis Setting	≤ 2% of F.S.
Output Response Time	<1ms
Repeatability	≤0.2% F.S.
Thermal Error	1% over ±25°C (77°C) Temperature Change: Range 32 to 122°F (0 to 50°C)
General Protection	IP40, CE Marked, EN55011 Class B, EN50082-2
Current Consumption	< 20mA
Spike Protection	400 VP, 1 μs, Surge Protection
Dielectric Strength	1000VAC, 1min.
Insulation Resistance	> 100M ohm at 500VDC
Vibration Resistance	10 to 55Hz, 0.75mm Amplitude, XYZ, 2 hrs.
Shock Resistance	100 G, XYZ
Material	Housing: Polycarbonate, Pressure Port: Zinc Die-cast
Mass	T Port: 0.25 oz. (7g), N, R, G Port: 0.88 oz (25g)



Sensor Pin Out

Pin

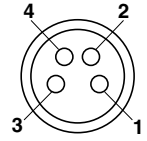
- 1 Brown: 24VDC
- 2 White: NPN / PNP Open Collector Output
- 3 Blue: 0VDC
- 4 Black: NPN / PNP Open Collector Output



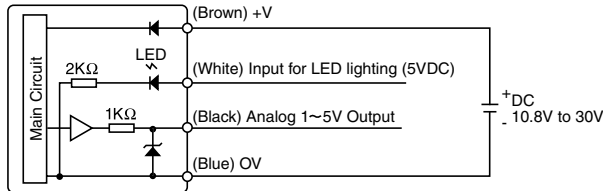
Sensor Pin Out with Analog Output

Pin

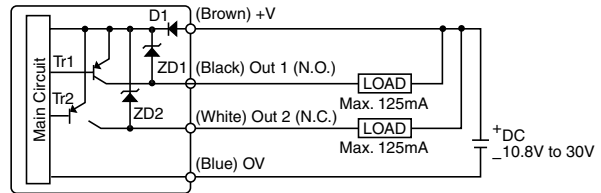
- 1 Brown: 24VDC
- 2 White: LED In 5VDC
- 3 Blue: 0VDC
- 4 Black: Analog 1 to 5VDC



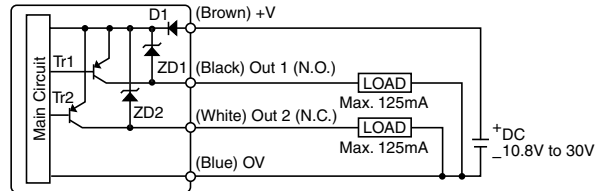
Internal Circuit



Analog



NPN Open Collector



PNP Open Collector

⚠ Cautions

The MPS-6 Pressure Sensor is designed to monitor pressure and is not a safety measure to prevent accidents.

The compatibility of the sensor is the responsibility of the designer of the system and specifications.

Operating Environment

- Parker / Convum Sensors have not been investigated for explosion-proof construction in hazardous environments.
- Do not use with flammable gases, liquids, or in hazardous environments.
- Avoid installing the sensor in locations where excessive voltage surges could damage or affect the performance of the sensor.

Operations

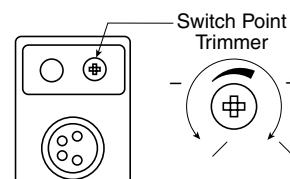
- Dedicate a power supply of 10.8 to 30VDC to the sensor and set the ripple to Vp-p10% or less. Avoid excessive voltage. Avoid voltage surges.
- A small amount of internal voltage drop is possible. Ensure the power supply minus any internal voltage drop exceeds the operating load.
- Verify the operating media is compatible with the specified sensor. Check the chemical make-up, operating temperatures, and maximum pressure ranges of the system before installing.
- Installation of air dryer system is recommended to remove moisture.

Installation

- Never insert an object into the pressure port other than an appropriate fluid connector.
- Avoid short-circuiting the sensor. Connect the brown lead to V+ and blue lead to 0V.
- Do not connect the output lead wires (black / white) to the power supply.
- Outputs not being used should be trimmed and insulated.

Trimmer Adjustment

Rotate the potentiometer trimmer to increase or decrease pressure switch point output. Excessive force or exceeding the limits of the trimmers may cause damage.

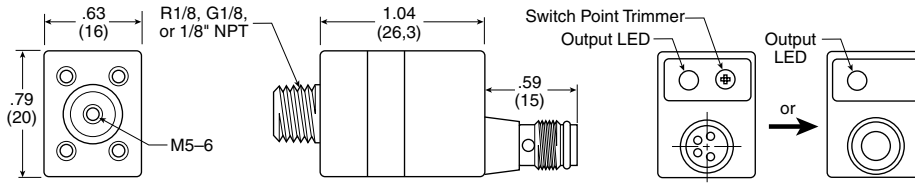




Dimensions

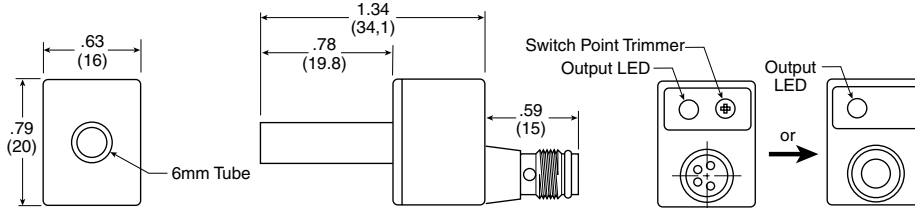
N, R, G

**1/8" Male,
M5 Female,
M8, 4-Pin**



T6

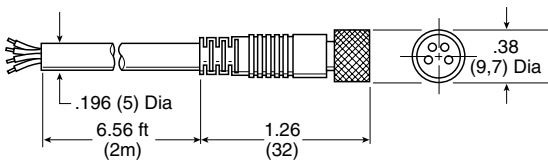
**Tube Stud,
M8, 4-Pin**



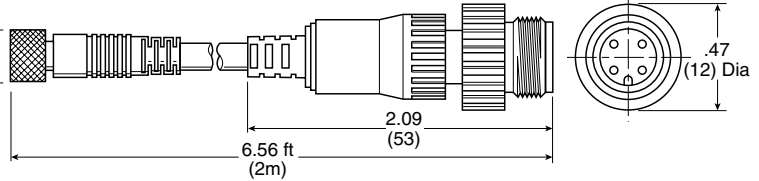
Accessories

Cables

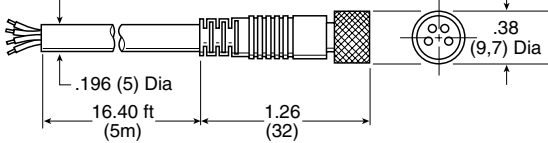
CB-M8-4P-2M, Female to Open Lead



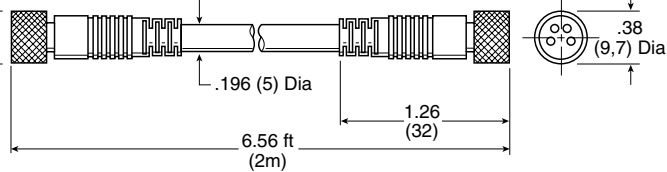
CB-M8-4P-M12-2M, M8 Female to M12 Male



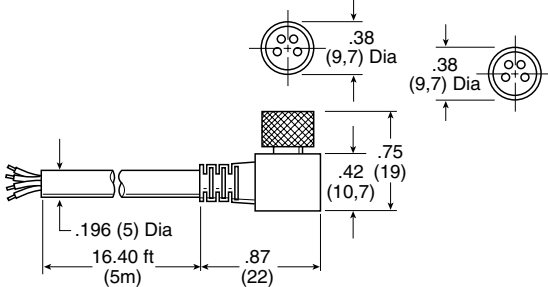
CB-M8-4P-5M, Female to Open Lead



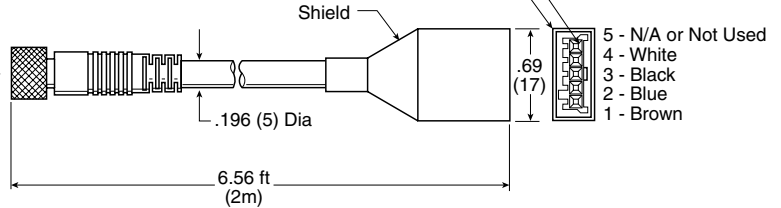
CB-M8-4P-M8-2M, M8 Female to M8 Male



CB-M8-4P-5M-90, Female to Open Lead



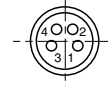
CB-M8-4P-2E, M8 Female



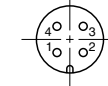
**Female Interface
4-Pin, M8**



**Male Interface
4-Pin, M8**



**Male Interface
4-Pin, M12**



Cable Pin	Color
1	Brown
2	White
3	Blue
4	Black