

KPX Series

OEM Pressure Sensor

Order from: **C A Briggs Company**

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- All stainless steel wetted parts
- Welded diaphragm handles pressure spikes and pulsations
- Highly accurate thin film sensing element
- Off-road capable due to high vibration and shock resistance

The series KPX pressure sensors combine high performance and reliability to withstand severe process and environmental conditions. The all welded pressure sensing element is located low in the connection fitting in order to prevent damage due to mechanical shock on the sensor housing. The KPX is designed with high overpressure capability to provide reliability and long life in hydraulic and pneumatic applications where pulsations or vibrations exist. The sensor utilizes sputtered thin film sensing elements that provide the ultimate in long term accuracy and stability. All of this in a small package that is more easily integrated into machinery where space is at a premium. The pressure sensing element is an all stainless steel design and welded for reliable, trouble free performance in high shock and vibration conditions. Variations in pressure connections, outputs and electrical connections are available and custom configurations are possible for volume applications.



KPX Series OEM Pressure Sensor

Specifications

Pressure ranges:	0-100 to 0-8000 PSIG
Outputs available:	4-20 mA, 2-wire or 0-10 VDC, 1-5 VDC, 3-wire
Proof pressure:	2X span
Burst Pressure:	8X span for 0-100 to 0-1500 PSIG 4X span for 0-2000 to 0-8000 PSIG
Accuracy:	±0.5% of full scale
Repeatability:	±0.1% of full scale
Stability:	±0.2% of full scale for 1 year, non-accumulating
Response time:	<5msec. from 10% to 90% of range
Wetted materials	
Sensing diaphragm:	17-4 PH stainless steel
Connection fitting:	316 stainless steel
Housing material:	Fiber reinforced PBT plastic
Shock resistance:	500 g
Vibration resistance:	20 g

Temperature ratings

Compensated:	32 to 176°F
Zero effect:	±0.008% of full scale/°F
Span effect:	±0.008% of full scale/°F
Ambient:	-40 to +212°F
Process:	-40 to +250°F
Storage:	-40 to +250°F
Power Requirement:	10-36 VDC for 4-20 mA and 1-5 VDC output, 14-36 VDC for 0-10 VDC output
Loop Load	
4-20 mA:	$(V_{\text{supply}} - 10) / 0.02 \Omega$
1-5 VDC:	>2500Ω
0-10 VDC:	>5000Ω
Electrical protection	
M-12 and Metri-pack:	IP67/NEMA 4X
Integral cable:	IP69K (steam jet cleaning)

When quality counts, count on KOBOLD

Argentina, Austria, Belgium, Brazil, Canada, Chile, Czech Republic, France, Germany, Indonesia, Italy, Malaysia
Mexico, Netherlands, Peru, Slovakia, Switzerland, Thailand, United Kingdom, USA, Venezuela, Vietnam

Ordering Information

KPX = OEM Pressure sensor

Pressure Ranges

0100 = 0-100 PSIG	0750 = 0-750 PSIG
0150 = 0-150 PSIG	1000 = 0-1000 PSIG
0200 = 0-200 PSIG	2000 = 0-2000 PSIG
0300 = 0-300 PSIG	3000 = 0-3000 PSIG
0400 = 0-400 PSIG	5000 = 0-5000 PSIG
0500 = 0-500 PSIG	8000 = 0-8000 PSIG
0600 = 0-600 PSIG	

Accuracy

1 = 0.5% of full scale

Output

1 = 4-20 mA
3 = 1-5 VDC
5 = 0-10 VDC

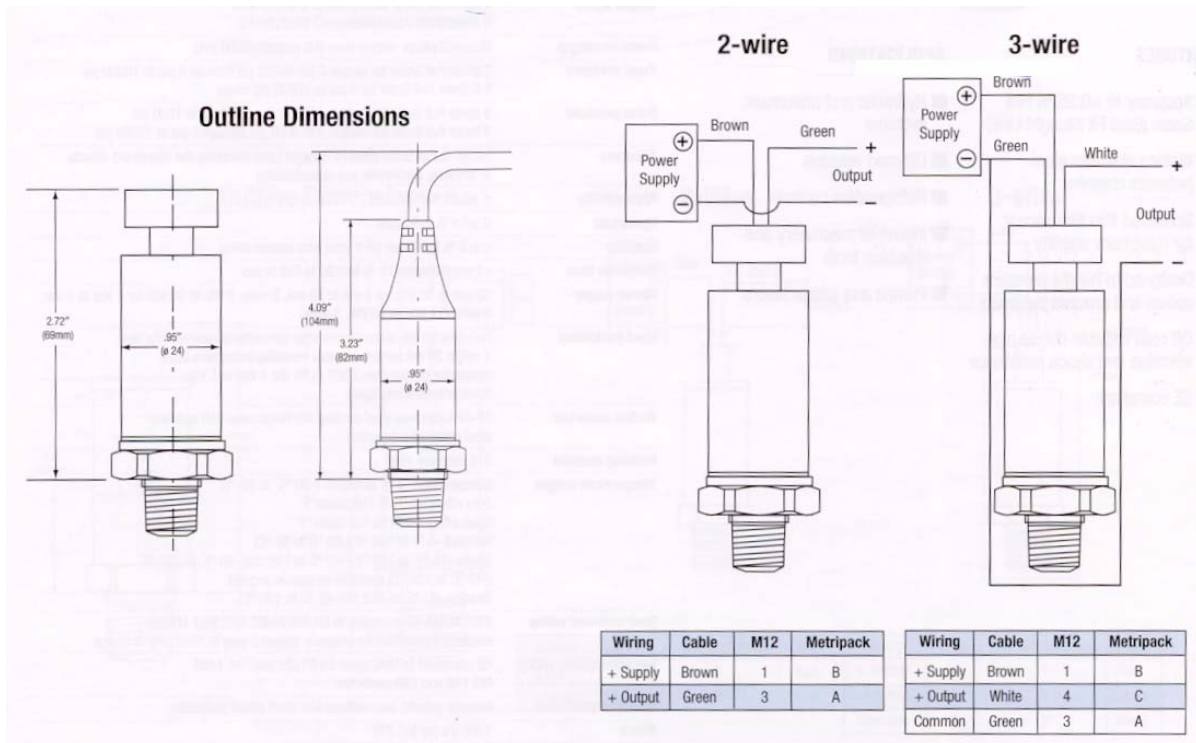
Fittings

2 = 1/4" NPT male
3 = 7/16 -20 UNF #4 SAE male

Electrical Connection

1 = Integral cable
25 = M-12 (micro-DC) 4-pin
34 = Metri-Pack 150

KPX - 0500 1 1 2 1 sample part number



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