



## LOW-COST OEM PRESSURE TRANSDUCER

### MODEL BR1001/1002/1003



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Low-Cost OEM Pressure Transducer

#### FEATURES:

- Low-cost, high reliability
- Up to 0.25% FSO accuracy
- Compact 0.870" diameter
- Rugged, all welded construction
- NEMA - 4X/IP65 rated
- CE Directives: EMC, PED, ROHS

#### APPLICATIONS:

- Automotive
- Industrial OEM
- On-board vehicle
- Compressor controls
- Pneumatic/hydraulic controls
- Pump controls

#### PRODUCT OVERVIEW:

The Model BR1001/1002/1003 from Blue Ribbon Corp is a family of lower cost, industrial grade OEM pressure transducers, featuring corrosion-resistant, all stainless steel wetted parts and housings. Series transducers are ideal for higher volume pressure monitoring applications, particularly where lower costs are required, yet where the need for precision measurement accuracy remains. Units are available with choice of 4-20 mA, 0 to 5 Vdc, 0 to 10 Vdc or mV/V output, as well as various electrical connection and pressure port options. Typical applications for the Model BR1001/1002/1003 include off-road vehicle, HVAC/R, hydraulic and pneumatic control systems, pumps and compressors, and industrial engine pressure monitoring.

#### FIELD OPTIONS:

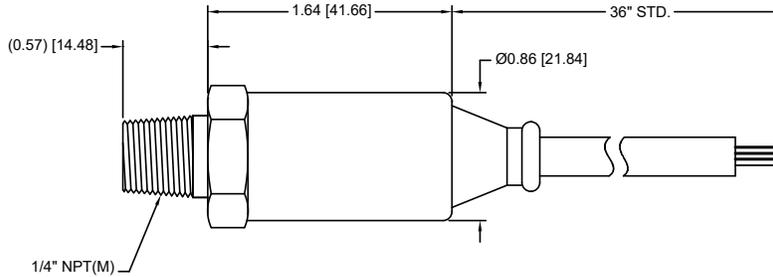
- 4-20 mA, 0-5 Vdc, 0-10 Vdc and mV/V outputs available
- Alternate connectors & pressure ports

**BR5SL-TX-011**  
REV-K

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## DIMENSIONAL DRAWING

All dimensions are in inches (mm)



### STANDARD WIRING

WIRE	MODEL 1001	WIRE	MODEL 1002	WIRE	MODEL 1003
1/RED	+EXC	1/RED	+EXC	1/WHT	N/C
2/GRN	+SIG	2/BLK	-EXC/SIG	2/BLK	-EXC/SIG
3/WHT	-SIG	3/WHT	+SIG	3/RED	+EXC/SIG
4/BLK	-EXC	GND/SHIELD	N/C	GND/SHIELD	N/C

## REFERENCE SPECIFICATIONS

ELECTRICAL	MECHANICAL
<ul style="list-style-type: none"> <li><b>Output Signal:</b> (1001) 3.0 to 10.0 mV/V (1002) 0 to 5 Vdc, 0 to 10 Vdc (1003) 4-20 mA</li> <li><b>Supply Voltage:</b> (1001) 3.5 to 15 Vdc (1002, 1003) 9 to 32 Vdc</li> <li><b>Compliance:</b> CE directives: EMC, PED, ROHS</li> <li><b>Circuit Protection:</b> Reverse polarity</li> <li><b>Response Time:</b> &lt;5 ms</li> <li><b>Connection:</b> 36" long, 24 AWG, 4 conductor cable (Other options available)</li> </ul>	<ul style="list-style-type: none"> <li><b>Process Connection:</b> 1/4" NPT (M) standard (other options available)</li> <li><b>Proof Pressure:</b> 1.5X FSO</li> <li><b>Burst Pressure:</b> 3X FSO or 17,500 PSIG (1,207 BAR), whichever is less</li> <li><b>Weight:</b> &lt;4 oz (113 g)</li> </ul>
<b>STATIC ACCURACY (BFSL):</b> Non-Linearity @ +70 °F Standard: ±0.5% FSO Improved: ±0.2% FSO Zero Balance & FSO: ±1.0% FSO @ +70 °F	<b>PRESSURE RANGES</b> <ul style="list-style-type: none"> <li>0 to 15 thru 0 to 10K PSI (1,034 mBAR thru 689 BAR), gauge, vacuum, and absolute pressure reference available</li> </ul>
<b>MATERIALS OF CONSTRUCTION</b> <ul style="list-style-type: none"> <li><b>Wetted Parts:</b> 316L SST or 17-4 stainless steel</li> <li><b>Housing:</b> 300 Series stainless steel</li> <li><b>Internal Fill:</b> May contain Silicone oil fill (consult factory for alternatives)</li> </ul>	<b>THERMAL SPECIFICATIONS</b> <ul style="list-style-type: none"> <li><b>Compensated:</b> 0 °F to +180 °F (-17.7 °C to +82 °C)</li> <li><b>Operating Temperature:</b> -40 °F to +180 °F (-40 °C to +82 °C)</li> <li><b>Storage Ambient:</b> -40 °F to +250 °F (-40 °C to +121 °C)</li> <li><b>Effect on Zero/Span:</b> &lt;±2.0% FSO/100 °F</li> </ul>

All specifications are for reference purposes only. In the interests of continuous product improvement, all specifications are subject to change without notice. Please contact Blue Ribbon Corporation for assistance with your application.

