



## LOW-COST OEM PRESSURE TRANSDUCER



Model BR1002/1003  
Low-Cost OEM Pressure Transducer

### MODEL BR1002/1003

#### 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 BR1002/1003 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 or 0 to 10 Vdc output, as well as various electrical connection and pressure port options. Typical applications for the Model BR1002/1003 include off-road vehicle, HVAC/R, hydraulic and pneumatic control systems, pumps and compressors, and industrial engine pressure monitoring.

#### FIELD OPTIONS:

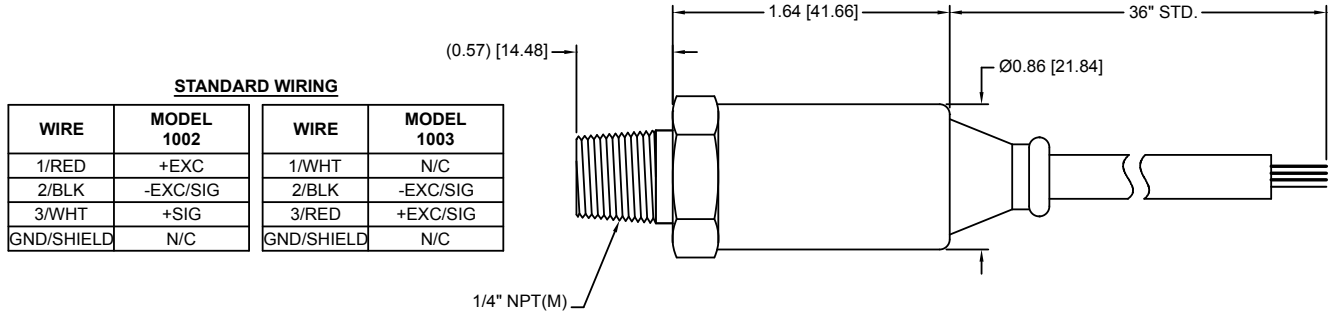
- 4-20 mA, 0-5 Vdc, 0-10 Vdc and 10 mV/V outputs available
- Alternate connectors & pressure ports

**BR5SL-TX-011**  
REV-F

# LOW-COST OEM PRESSURE TRANSDUCER

## DIMENSIONAL DRAWING

All dimensions are in inches (mm)



## REFERENCE SPECIFICATIONS

| ELECTRICAL  | MECHANICAL  |
|---|---|
| <ul style="list-style-type: none"> <li>• <b>Supply Voltage:</b> 9 to 32 Vdc</li> <li>• <b>Output Signal:</b><br/>(1002) 0 to 5 Vdc, 0 to 10 Vdc optional<br/>(1003) 4-20 mA</li> <li>• <b>Circuit Protection:</b> Reverse polarity</li> <li>• <b>Compliance:</b> CE directives: EMC, PED, ROHS</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> (HYSTERESIS, NON-LINEARITY & REPEATABILITY @ +70 °F)  | <b>PRESSURE RANGES</b>  |
| Standard: ±0.5% FSO<br>Improved: ±0.2% FSO<br>Zero Balance & FSO: ±1.0% FSO @ +70 °F  | <ul style="list-style-type: none"> <li>• 0 to 5 thru 0 to 10K PSI (0.3 thru 689 BAR), gauge, vacuum, and absolute pressure reference available</li> </ul>   |
| <b>MATERIALS OF CONSTRUCTION</b>  | <b>THERMAL SPECIFICATIONS</b>   |
| <ul style="list-style-type: none"> <li>• <b>Wetted Parts:</b> 316 stainless steel and 17-4 stainless steel</li> <li>• <b>Housing:</b> 316 stainless steel</li> <li>• <b>Internal Fill:</b> May contain Silicone oil fill (consult factory for alternatives)</li> </ul>  | <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.

