



HAZARDOUS LOCATION PRESSURE TRANSMITTER

MODEL BR240/340 AI/AN



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Hazardous Location Pressure Transmitter

FEATURES:

- Compact design for easier installation
- All stainless steel welded rugged construction
- ATEX & IEC Approvals
- Improved accuracy and thermally compensated
- Ranges 0 to 1 PSI thru 0 to 30K PSI (69 Mbar to 2068 Bar)
- FM, & CSA Approvals Pending

APPLICATIONS:

- Natural Gas Compression
- Rig safety systems
- Well head control
- Control panels
- On-board transmission & engine monitoring

PRODUCT OVERVIEW:

Model 40 series incorporates over 25 years of oil field proven design in a 1" diameter package. The 40 series provides a rugged solution for hazardous approved areas, especially where space constraints are a concern. Its all-welded stainless steel design will provide years of reliable service in some of the harshest environments.

APPROVALS:

Currently Available:

- ATEX/IEC Intrinsically Safe: II 1 G Ex ia IIC T5 Ga

Pending:

- ATEX/IEC Zone 2: II 3 G Ex nA/ic IIC T5 Gc
- FM, CSA Intrinsically Safe: Class I, Division 1, Groups A-G, T5, Ex ai IIC T5
- FM/CSA: Division/ Zone 2: Class I Division 2, Groups A-G, T5, Ex nC/nA/nL T5

Current Approvals:



Pending Approvals:

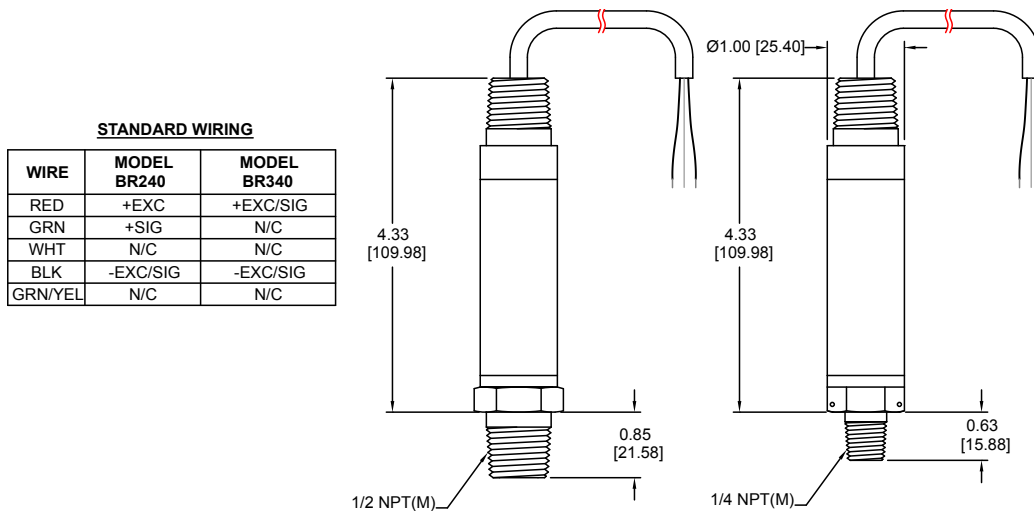


BR5SL-TX-012
REV-A

HAZARDOUS LOCATION PRESSURE TRANSDUCER

DIMENSIONAL DRAWING

All dimensions are in inches (mm)



REFERENCE SPECIFICATIONS

ELECTRICAL
<ul style="list-style-type: none"> Excitation Voltage: (Model 240) 10.5 to 32 Vdc (Model 340) 10 to 28 Vdc Output Signal: (Model 240) 0-5 Vdc and 4-20 mA Load Impedance: (Model 240) 50K Ω max. 24 Vdc (Model 340) 750 Ω max. 24 Vdc Input Current: (Model 240) 8 mA nominal Insulation Resistance: >10 MΩ at 50 Vdc and +70 °F EMI Specs: EMC directive 2004/108/EC, EN 61326 emission Connection: 1/2" NPT M conduit w/ 6ft 18 AWG multi-conductor cable
MATERIALS OF CONSTRUCTION
<ul style="list-style-type: none"> Wetted Parts: ≤2000 PSI 316L SST w/silicon oil fill (Fomblin oil fill available, consult factory) >2000 PSI 17-4 PH SST (Hastelloy C-276 and Inconel available, consult factory) Housing: 316 stainless steel

STATIC ACCURACY (HYSTERESIS, NON-LINEARITY & REPEATABILITY @ +70 °F)
<ul style="list-style-type: none"> Standard ±0.25% FSO Optional ±0.15%
Zero Balance and FSO: ±1% FSO at +70 °F
MECHANICAL
<ul style="list-style-type: none"> Process Connection: 1/4" NPT (M), options available Proof Pressure: 2X FSO Burst Pressure: 5X FSO Approximate Weight: 0.5 lb nominal, options may increase weight Environmental: Design to meet IP67 (Some options may affect this. Consult factory if critical.)
PRESSURE RANGES
<ul style="list-style-type: none"> 0 to 1 PSI thru 0 to 30K PSI, some options may affect range (PSIG, PSIS, PSIA, PSIV & compound ranges available)
THERMAL SPECIFICATIONS
<ul style="list-style-type: none"> Compensated: 0 °F to +180 °F (-17.7 °C to +82 °C) Operating: -40 °F to +176 °F (-40 °C to +80 °C) Storage: -65 °F to +250 °F (-53 °C to +121 °C) Effect on Zero/Span: ±1.0% FSO/100 °F

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.

