



INDUSTRIAL GRADE PRESSURE TRANSDUCER

MODELS BR111, BR211, BR311

FEATURES:

- Available ranges from 0-30" WC thru 0-5K PSI (75 to 1,034 BAR)
- Choice of mV/V, VDC, & 4-20 mA output
- Rugged, welded, stainless steel construction
- High proof pressure
- Economically priced

APPLICATIONS:

- Hydraulic & pneumatic controls
- Die casting
- Rolling & steel mills
- Compression skids
- Irrigation pumps pressure
- Oilfield truck pressures
- Skidded process systems

PRODUCT OVERVIEW:

The Model BR111/BR211/BR311 from Blue Ribbon Corporation is a line of rugged, all-welded stainless steel, industrial grade pressure transducers. Designed with over 25 years of field proven experience, model BR11 offers high corrosion durability and optional 10X proof pressure ideal for demanding oil & gas, steelworks, rolling mills and process control applications, providing a low maintenance solution for the most demanding environmental applications.

FIELD OPTIONS:

- Zero & Span adjustments
- 80 % and 100% shunt calibration
- Alternate connectors & pressure ports
- For Intrinsically Safe and Explosion Proof approvals, see our designated datasheet for Model BR111/BR211/311 hazardous location



Model BR111 / BR211 / BR311
Industrial Grade Pressure Transducer

BR5SL-TX-013
REV-A

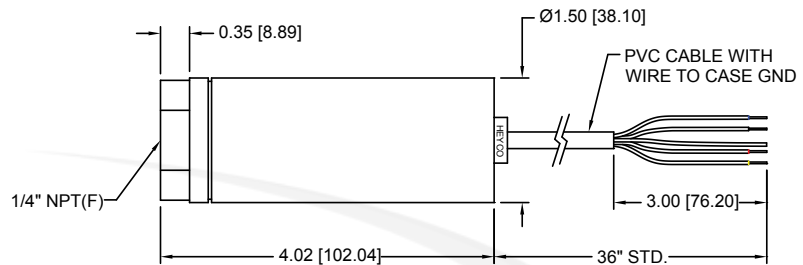
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DIMENSIONAL DRAWING

All dimensions are in inches (mm)

STANDARD WIRING

WIRE	MODEL BR111	MODEL BR211	MODEL BR311
1/RED	+EXC	+EXC	+EXC/SIG
2/GRN	+SIG	+SIG	N/C
3/WHT	-SIG	N/C	N/C
4/BLK	-EXC	-EXC/SIG	-EXC/SIG
5/BLU	+SHUNT (OPT)	+SHUNT (OPT)	+SHUNT (OPT)
6/BRN	-SHUNT (OPT)	-SHUNT (OPT)	-SHUNT (OPT)



REFERENCE SPECIFICATIONS

ELECTRICAL

- **Excitation Voltage:**
(Model BR111) 3.5 to 15 Vdc
(Model BR211) 9.0 to 36 Vdc
(Optional outputs may affect excitation)
(Model BR311) 9.0 to 36 Vdc
- **Output Signal:**
(Model BR111) 1 to 3 mV/V (range and accuracy dependent)
(Model BR211) 0 to 5 Vdc, 0 to 10 Vdc (other outputs available)
(Model BR311) 4-20 mA
- **Input Impedance:** (Model BR111) 5K or 350 Ω nominal
- **Input Current:** (Model BR211) 8 mA nominal
- **Circuit Protection:**
(Model BR211/BR311) RFI & EMI
(Model BR211/BR311) Reverse polarity protected
- **Response Time:** <3 ms 10% to 90%
- **Connection:** 36" long PVC Jacketed cable, 4-conductor

MATERIALS OF CONSTRUCTION

- **Wetted Parts:**
Ranges $\leq$ 100 PSI: 316L stainless steel
Ranges > 100 PSI: 17-4 PH stainless steel
- **Housing:** 300 series stainless steel

STATIC ACCURACY (BFSL) (HYSTERESIS, NON-LINEARITY & REPEATABILITY @ +70 °F)

- **Standard:** $\pm 0.5\%$ FSO
- **Improved:** $\pm 0.20\%$ FSO or $\pm 0.1\%$ FSO
- **Zero Balance and FSO:** $\pm 1.0\%$ FSO at +70 °F (+21.1 °C) for each

MECHANICAL

- **Process connection:** 1/4" NPT (F)
- **Proof Pressure:** 2X FSO or 22.5K PSI (1,551 BAR), whichever is less
- **Burst Pressure:** 5X FSO or 23K PSI (1,586 BAR), whichever is less, Vacuum 5X FSO in gauge pressure
- **Approximate Weight:** 10 oz, (0.3 kg) nominal (options may increase weight)

PRESSURE RANGES

- 0-30" WC thru 0 to 15K PSI (0 to 1,034 BAR)
PSIG, PSIS, PSIA, PSIV & compound ranges available

THERMAL SPECIFICATIONS

- **Compensated:** 0 °F to +180 °F (-17.7 °C to +82 °C)
- **Operating:** -20 °F to +190 °F (-29 °C to +88 °C)
- **Storage:** -65 °F to +250 °F (-53 °C to +121 °C)
- **Effect on Zero/Span:** $\pm 1.0\%$ 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.

