



FLUSH SUBMERSIBLE LEVEL TRANSMITTER

MODEL 313F



Model 313F
Flush Submersible Level Transmitter

FEATURES:

- Large, flush ceramic diaphragm
- 0 to 3 PSI thru 0 to 30 PSI (69 fwc)
- Corrosion resistant, leak-proof construction
- Hytrel® cable rated for Hydrocarbons
- Designed to 500 PSI external pressure
- Flush design saves cost & down time by eliminating sensor clean up

APPLICATIONS:

- Lift station level monitoring
- Tanks and reservoir levels
- Process sumps
- Sludge or slurry levels

PRODUCT OVERVIEW:

The Model 313F utilizes a flush 1.12" diameter ceramic sensor that inhibits grease and biosolid buildup typically found in water treatment level applications. This flush ceramic design saves cost by eliminating sensor clean-out found with many other non flush designs. The corrosion-resistant 316L stainless steel construction, and an integrated hydrophobic breather vent help provide years of maintenance-free service.

FIELD OPTIONS:

- Tefzel® jacketed cable
- PVC housing (see model 313G)
- Field re-zeroing option

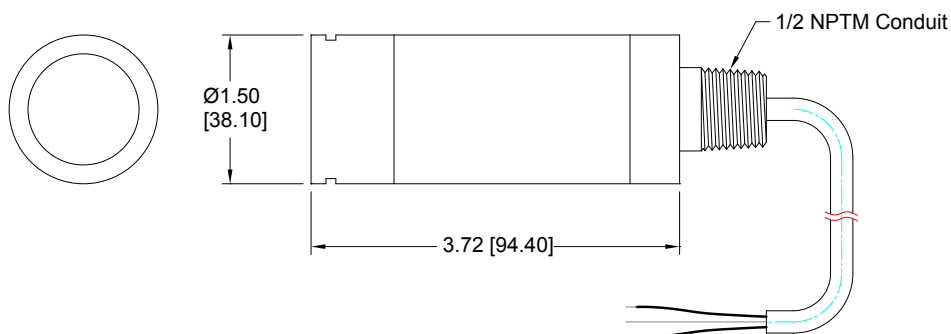
GP:50 MODEL 313F

DIMENSIONAL DRAWING

All dimensions are in inches (mm)

STANDARD WIRING

| WIRE | MODEL 313F |
|--------|------------|
| RED | +EXC/SIG |
| BLK | -EXC/SIG |
| GRN | N/C |
| WHT | N/C |
| SHIELD | OPEN |



REFERENCE SPECIFICATIONS

| ELECTRICAL |
|---|
| <ul style="list-style-type: none"> • Supply Voltage: 9 to 36 Vdc • Output Signal: 4-20 mA output • Circuit Protection: Short circuit or reversed wired – Indefinite • Load Resistance: 1400 Ω max. at 40 Vdc excitation • Response Time: \leq3 ms to 90% • Connection: 1/2" NPT (M) w/8 ft 18 AWG Hytrel[®] jacketed cable (Tefzel[®] jacketed cable optional) |
| MATERIALS OF CONSTRUCTION |
| <ul style="list-style-type: none"> • Housing: 316L Stainless Steel (Optional titanium or PVC) • Sensor: Ceramic Al₂O₃ -96% • Cable: Hytrel[®] or Tefzel[®] • Cable Seal: Buna N - nitrile rubber |
| STATIC ACCURACY (RSS) (HYSTERESIS, NON-LINEARITY & REPEATABILITY @ +70 °F) |
| Standard: \pm 0.5% FSO, \pm 0.2% FSO, and \pm 0.1% FSO |

| MECHANICAL |
|--|
| <ul style="list-style-type: none"> • Zero Balance and FSO: \pm1.0% FSO @ +70 °F • Process Connection: Flush ceramic, options available • External Pressure: Rated to 500 PSI (1,153 ft WC) max. • Proof Pressure: 2X FSO • Burst Pressure: 4X FSO • Approximate Weight: 1 lb (0.5 kg) nominal, options may increase weight • Diameter: 1.5" |
| PRESSURE RANGES |
| <ul style="list-style-type: none"> • 0-3 PSI thru 0 to 30 PSI |
| THERMAL SPECIFICATIONS |
| <ul style="list-style-type: none"> • Compensated: 32 °F to +132 °F (0 °C to +55 °C) • Operating: 0 °F to +180 °F (-18 °C to +82 °C) • Storage: -40 °F to +150 °F (-18 °C to +82 °C) • Effect on Zero/Span: $<$$\pm$2.0% FSO/100 °F at full scale |

All specifications are for reference purposes only. In the interests of continuous product improvement, all specifications are subject to change without notice. Please contact GP:50 for assistance with your application.