

Model 690L Level Transmitter (Non-inducting with 4-20mA Output)

Features

- **Anti-coat circuitry.**
- **Eliminates false level reading.**
- **Explosion proof enclosure.**
- **EMI/RFI static protection.**
- **Isolated 4-20 mA output.**
- **Damping adjustment for turbulent applications.**
- **Field selectable direct/reverse action.**
- **Remote-mounting capability upto 150 feet**



Model 690L in Standard Aluminum Explosionproof Enclosure (shown with cover removed)

Specifications

Ambient Conditions:

In standard Aluminum Enclosure.....-40 to 160°F (-40 to 71°C), 0-95% relative humidity, non-condensing

Power Requirements:

AC Line-powered Version.....115 VAC, 50/60 Hz.; 230 VAC, 50/60 Hz. Available

DC-powered Version.....18 to 35 VDC

Analog Output.....Isolated 4-20 mA, field-selectable for directed or reverse acting

Output Load:

AC Line-powered Version.....600 Ω maximum load

DC-powered Version.....Maximum loop load (in series with 690L and power supply):

550 Ω with 24 VDC power supply

1100 Ω with 35 VDC power supply

NOTE: For long cable runs, the resistance of the wire must be considered, and it may decrease maximum load capacity.

Output Damping.....Adjustable, 0.1 to 10 seconds

Anti-coat Circuitry.....Phase shift type: compensates automatically for conductive coatings

Protection.....RFI, EMI, and static charge

Zero Adjustment Range.....0 to 500 pF

Span Adjustment Range.....10 to 10,000 pF

Zero/Span Ratio.....10 to 1 maximum

Linearity.....0.5% of full scale

Temperature Stability.....Greater of 0.01 pF per °F –or- 0.01% of span per °F

Enclosure.....Standard: Cast aluminum w/urethane finish – NEMA 4, 7 and 9 (weatherproof, hosedown, dust and vapor explosionproof)

Optional: PVC – NEMA 4X for corrosive areas

Net weight.....In Standard Aluminum Enclosure: 3.6 lbs. (1.63 kg) approximately

Ordering Information

MODEL NUMBER	690L Non-indicating transmitter with 4-20 mA output for continuous level measurement
LINE VOLTAGE	V1 115 VAC, 50/60 Hz V2 230 VAC, 50/60 Hz V3 24 VDC
DISPLAY	D0 Without display D1 Blind with 4-20 mA o/p display
690L	Product Number

Choose one from each category.

Remote Mount Accessories (order separately):

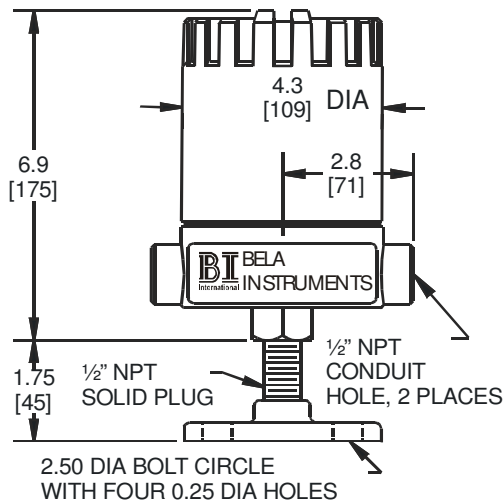
- 1000-3071 Threaded Adapter
- 1000-3072 Explosionproof Junction Box (with jack terminals)
- 1000-3073 Triaxial Interconnect Cable* (up to 160°F)

* Cable is appropriately terminated at each end. Specify length up to 150 feet

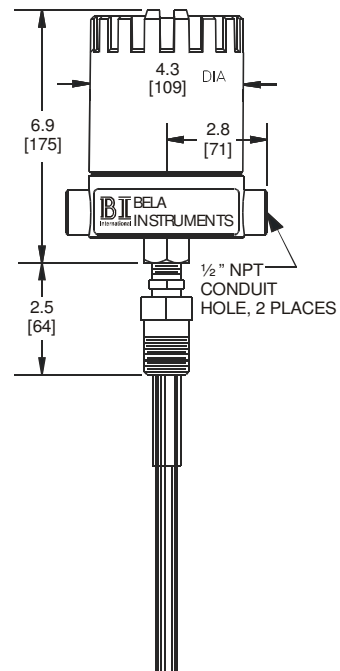


Dimensions

Inches (mm)



Remote Mounting With Threaded Adapter



Integral Mounting (onto level probe)