



# Analog Line Filter

# LTF

## Specifications

### Electrical

**System Voltage:** 24Volts Max.

### TVS Diode:

59V Max.

252A Peak Pulse Current

**Current Supp.:** 205mA @ 40V

**Triode:** 90V @15KA

**Gas Discharge:** 90V @15KA

### Physical

**1/2" PVC Conduit:** Type C  
Gasketed Cover

**M-Series:** 2" x 2.7" x 1.3"  
Surface or Din Mounting  
Epoxy Filled

### Termination:

Transducer: (2) #22 Stranded Wire Leads  
Black & Red, 12"  
Instrument: (4) Screw Terminals

### Ambient Temperatures

**Operating:** -40°C to 100°C

**Storage:** -40°C to 100°C



## Ordering Information

**Model:** LTF (Line Transient Filter)

**Signal:** 4.20mA (Also works for 0-10VDC)

### Packaging:

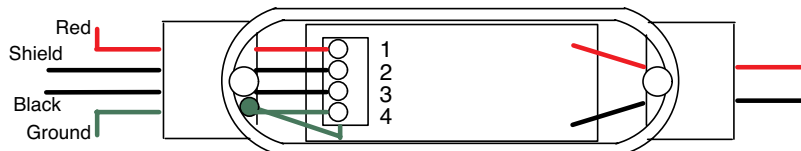
C-Conduit: CC

M-Series: MS

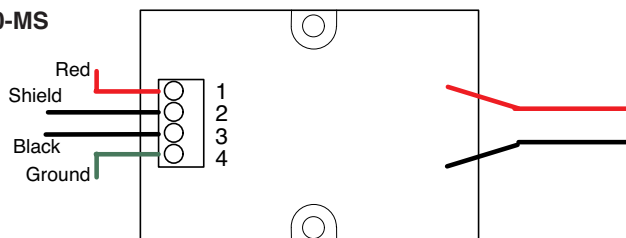
## Dimensions

## Connections

### LTF-4.20-CC



### LTF-4.20-MS



**Suppresses Residual Surges**

**Suppresses induced Voltage Surges**

**No Capacitance to Effect Signals**

**Operates with:**

- 4.20mA Lines
- 0-10VDC lines

## Operation

The LTF is installed in series with transducers or other analog or loop circuits to reduce the effect of current surges and voltage transients to instrumentation and components.

## Continuity Test

Using VOM on resistance scale

1. Connect VOM to Red wire and Terminal 1.
2. Resistance should be  $>0$  Ohms and  $< 5$  Ohms
3. Connect VOM to Black wire and Terminal 3.
4. Resistance should be  $>0$  Ohms and  $< 5$  Ohms

## Voltage Clamping Test

Using SP Tester

1. Connect VOM to Meter output on SP Tester and set on VOM 100VDC scale
2. Connect Red and Black Wires to SP Tester.
3. VOM should read approximately 0.05V (Correlates to 50V breakdown)

## Gas Discharge Tube Test

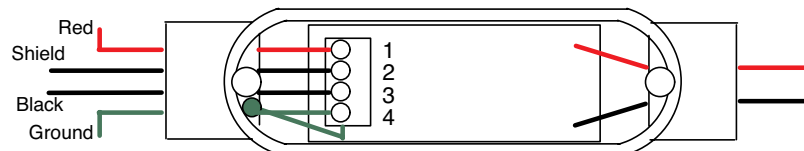
Using SP Tester

1. Connect one leg of SP Tester to Terminal 4 (Ground)
2. Connect other leg of SP Tester to Terminal 1.  
Gas discharge tube should light up.
3. Move the connection from the SP Tester to Terminal 2.  
Gas discharge tube should light up.
4. Move the connection from the SP Tester to Terminal 3.  
Gas discharge tube should light up.

**If unit passes all tests, it is operating properly.**

## Connections

### LTF-4.20-CC



### LTF-4.20-MS

