

Model 420XL- Specifications



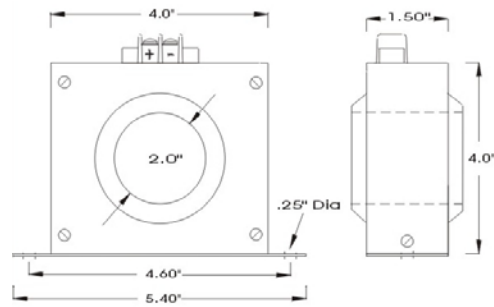
- Accommodates up to 5000 V Cable Voltage
- Extended Temperature Range
- Light Weight
- Small Size
- Encapsulated Shock Resistance
- Metal Encased
- Isolated Two-Wire Transmitters
- Fast, Reliable Response
- Low Cost Industrial Monitor
- Current Overload Protection
- Never Requires Calibration
- Complete Electrical Isolation
- Single Supply Voltage
- Supply Reversal Protection

STANDARD CURRENT RANGES:

A.C. Amps, RMS

0-300, 0-400, 0-500, 0-600

MAX WEIGHT: 18 OZ.



PERFORMANCE SPECIFICATION

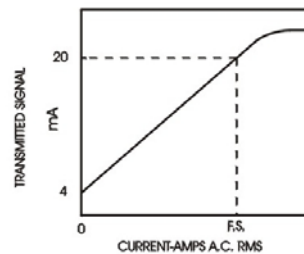
With Optimum Load Resistance

| | |
|-------------------------|--------------------------|
| Accuracy | 0.2% (Standard) |
| Repeatability | 0.1% Full Scale |
| Response Time | 150 Milliseconds Maximum |
| Temperature Range | -25 deg. C to 85 deg. C |
| Temperature Coefficient | 0.04% F.S./ deg. C |
| Conductor Cable Voltage | 5000 Volts |
| Supply Voltage | 5 to 40 V.D.C. |
| Signal Out | 4 to 20 mA |
| Frequency | Nominal 50 / 60 Hz |

ADDITIONAL SPECIFICATIONS

| | |
|---|-----------------------------------|
| Conductor Cable Size | Up To 2.00" diameter |
| Conductor Cable Voltage | Up to 5000 Volts |
| Isolation | Input/Output/Case |
| Insulation Resistance <i>(Between Output and Case)</i> | 100 Meg. Ohm Min. @ 500 V.D.C. |

CHARACTERISTIC CURVE



OPTIMUM LOAD RESISTANCE

The optimum load resistance is actually the sum of the line resistance, receiver resistances and added external load resistance. However, in many applications, the line resistance and receiver resistances are negligible in comparison to the added external load resistance. The following equation may apply:

$$R_L = (V_S - 5) \times 40 \quad \text{Where: } R_L = \text{Load Resistance in Ohms.}$$

$$V_S = \text{Supply Voltage in Volts D.C.}$$

