

Split-Core Current Transformer

Model Series 4LSF Small Group UL Listed

Window Openings: 0.5", 0.75", 1.0", 1.25", 1.50"

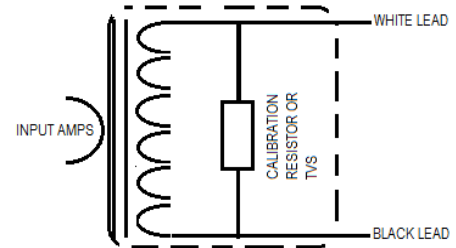
UL2808, IEC61010-1, CAT IV, XOBA, XOBA/7



The Model 4LSF Small Group split current transformer is a collection of five window sizes. The millivolt output version uses an internal calibration resistor to set the output voltage as shown in the table below. The milliamp version is provided with an internal transient voltage suppressor to limit the output to a safe level. The millivolt output version is limited for some input currents due to internal coil winding room, contact the factory. The group is rated CAT IV for field installation and termination to any UL certified meter. The 4LSF is a considered a stand-alone UL listed product rather than a recognized component and therefore can be field installed without further system testing with compatible instrumentation.

- **UL LISTED to UL2808, CAT IV, XOBA**
- **20A TO 800A See window chart**
- **Select either mV or mA output**
- **Can use on non-insulated conductors**
- **Revenue Grade Class 1 or 0.5 per IEC 61869**
- **Top Bar can be provided with snap top**
- **Screws or pushpins are available for the top**

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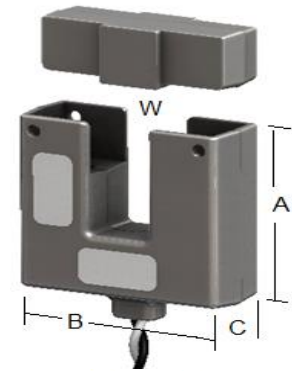


SPECIFICATIONS:

Input Current: AC current, sine wave, single phase 50/60Hz
Voltage Rating: 600VAC, Overvoltage Category IV.
Output Voltage, Standard, millivolts: 100, 250, 333.3, 500 and 1000.
Output Current, Standard, milliamps: 33, 50, 100, 200, 250 and 333.3.
Output Limiting: 14V peak transient voltage suppressor.
Standard Accuracy: Class 1 per Table 11, IEC 61869 for ratio.
Optional Accuracy: Class 0.5 per Table 11, IEC 61869 for ratio.
 Note: This split core style must be installed with the conductor located at the bottom and centered in the window.
Output Resistance (Voltage Output Type): < 100 ohms typical
Interface Resistance or Impedance: must be > 100k ohms
Temperature Range, Environment: -40°C to 70°C
Continuous Current Rating Factor: 1X
 Note: this is a very conservative UL rating; it can be as high as 1.25X
Dynamic Rating: 50 times FLA for 5 seconds once per 5 minutes
 Note: this is a Sentran Corporation conducted test.
Altitude: 2000 meters, **Pollution Degree:** 3, **Humidity:** 95% non-condensing
Construction: UL approved per UL2808 CAT IV to 120°C
Lead Wires: Black / White twisted pair, 18 AWG MTW, UL1015.
Installation Label: Label towards source for white lead positive

Applications:

Computer Data Centers
 Energy Monitoring
 HVAC Monitoring
 Industrial Control Systems
 Lighting Control
 Motor Monitoring
 Distribution Transformer Monitoring
 Power Control Panels
 Breaker Panels
 Power Distribution
 Power Quality
 Process Control Systems
 Residential Energy Monitoring
 Secondary Metering
 Revenue Metering
 SCADA Systems
 Solar Power Inverter Monitoring
 Wind Turbine Generators
 Geothermal Power Systems
 Smart Grid Instrumentation



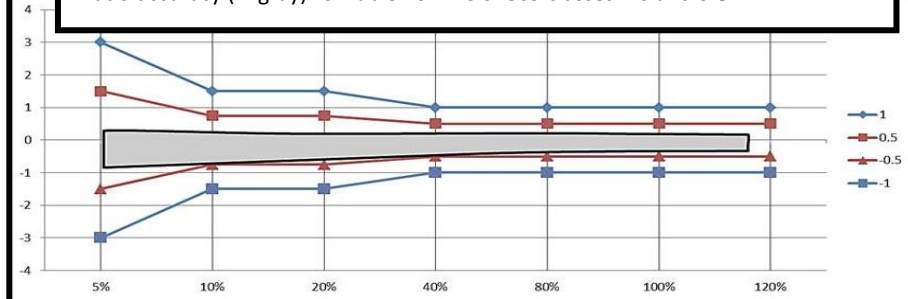
OUTPUT TABLE

PART NUMBERS: SELECT FULL LOAD AMPS (FLA) AND OUTPUT

BASIC PART NUMBER	XXX=FULL LOAD AMPS (50/60Hz) YYY=OUTPUT MILLIVOLTS OR MILLIAMPS	Window W (in/mm)	A in/ mm	B in/ mm	C in/ mm
4LSF-XXX-YYY-0.5"	XXX=FLA=10,20,30,50,75 YYY=millivolts 100, 250, 333, 500,1000mV, or 333mA Max	0.5" 12.5mm	2.31" 59mm	2.6	0.96
4LSF-XXX-YYY-0.75"	XXX=FLA=10,20,30,50,75,100 YYY=millivolts 100, 250, 333, 500,1000mV, or 333mA Max	0.75	2.69	2.4	.94
4LSF-XXX-YYY-1.0"	XXX=FLA=10,20,30,50,75,100,150,200,250,300 YYY=millivolts 100, 250, 333, 500,1000mV, or 333mA Max	1.0	3.24	2.87	1.11
4LSF-XXX-YYY-1.25"	XXX=FLA=10,20,30,50,75,100,200,50,300,400 YYY=millivolts 100, 250, 333, 500,1000mV, or 333mA Max	1.25	3.22	3.31	1.14
4LSF-XXX-YYY-1.5"	XXX=FLA=10,20,30,50,75,100,200,50,300,400,500,600,800 YYY=millivolts 100, 250, 333, 500,1000mV, or 333mA Max	1.5"	3.75"	3.6"	1.15"

MODEL 4LSF STANDARD mV OUTPUT	MODEL 4LSF STANDARD mA OUTPUT
50mV	33 mA
100 mV	50 mA
200 mV	100 mA
250 mV	200 mA
333 mV	250 mA
500 mV	333 mA
1000 mV	

Ratio accuracy (in gray) vs. Table 201 IEC 61869 classes 1.0 and 0.5



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