



GROUND FAULT CURRENT SENSOR

Model GFL Sensor (For BGFL, GFP and GFPV Relays)

Application: These Ground Fault Sensors (type GFL) are available in a variety of sizes. Care should be taken when determining the physical size of the sensor window. The Ground Fault Sensor will only respond to ground faults that occur between the position of the sensor and the load. Each sensor comes with both normal and test windings. These sensors are only for use with BGFL, GFP, and GFPV relays.

These sensors have internal test winding for testing of the sensor and relays together without having the need to use an external primary injection test system.

Operating Range: Trip Currents models are available for 5-60, 30-360, and 100-1200A.

Frequency: 50/60 HZ

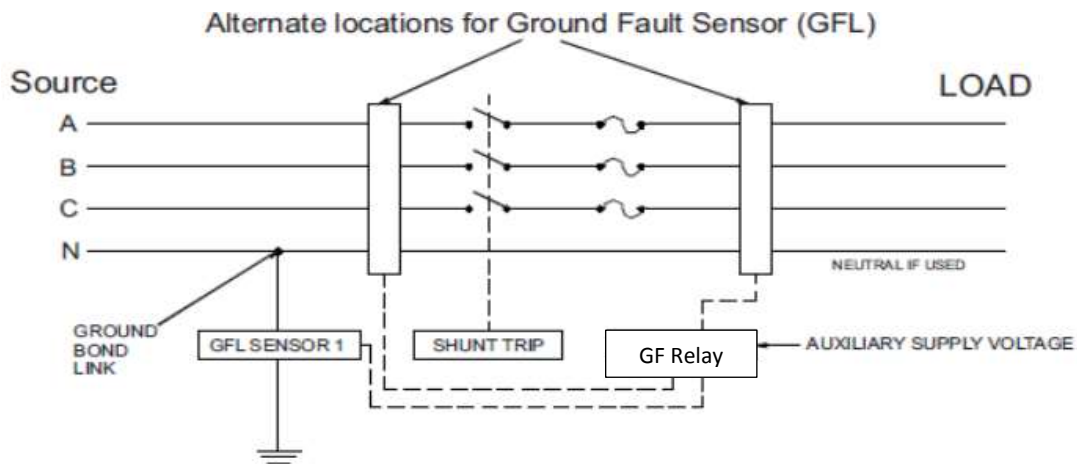
Insulation Level: 600 Volt, 10 kV BIL full wave.

Connection terminals: No. 8-32 brass terminals with flat washer, lock washer, and nut.

NOTE: These sensors are "Zero Sequence" sensors. For application where all three phase (and the neutral if monitored) pass through the same sensor, the direction of current flow is not a factor in the relays operation.

If more than one sensor is being used, all sensors must have the H1 side facing the same direction with respect to the current flow.

Typical Sensor Installation Locations:



Note: NO GROUNDS PERMITTED DOWNSTREAM OF BOND LINK

Note: See Ground Fault Relay Data Sheet for proper wiring diagram.

CAUTION:

All appropriate safety precautions must be followed for the installation of these devices including de-energizing the incoming power prior to installation. It is recommended the sensor be installed by a trained Electrician. These sensors must have its secondary terminals shorted, or have the relay connected prior to energizing the primary windings.



RECTANGULAR GROUND FAULT CURRENT SENSOR

Rectangular sensors are also available with take apart option allowing installation without disassembly of the primary bus or cables.

How to Order:

The table lists the available standard sensor sizes. Any window length can be combined with any window width. Custom sizes are also available.

To order a rectangular sensor, use the Sensor Size Table and the Part Number Table below.

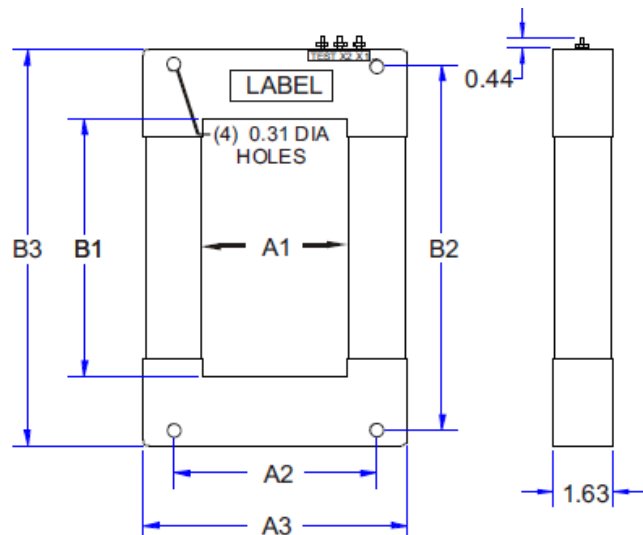


STANDARD SENSOR SIZES

"A1"	"A2"	"A3"	"B1"	"B2"	"B3"
4.1	6.4	7.3	7.1	10.0	10.9
5.1	7.2	8.3	11.7	14.5	15.4
5.8	7.0	9.0	14.1	17.0	17.9
8.0	9.5	11.1	18.1	21.0	21.9
10.1	11.6	13.2	24.0	27.0	27.9
x	x	x	30.1	33.0	33.9
x	x	x	36.0	38.9	39.8

Custom sizes are also available.

Model	Dimension "A1" (in 1/10 of inch)	By	Dimension "B1" (in 1/10 of inch)	"SC" = Split Core or Blank = Non-Split Core	Amperage Range 60 = 5-60A 360 = 30 - 360A 1200 = 100-1200A
GFL-	---	X-	---	---	---



Example: For a 10.1" x 24" window with a current trip range of 100-1200 and a split core, the part number would be "101x240SC1200"

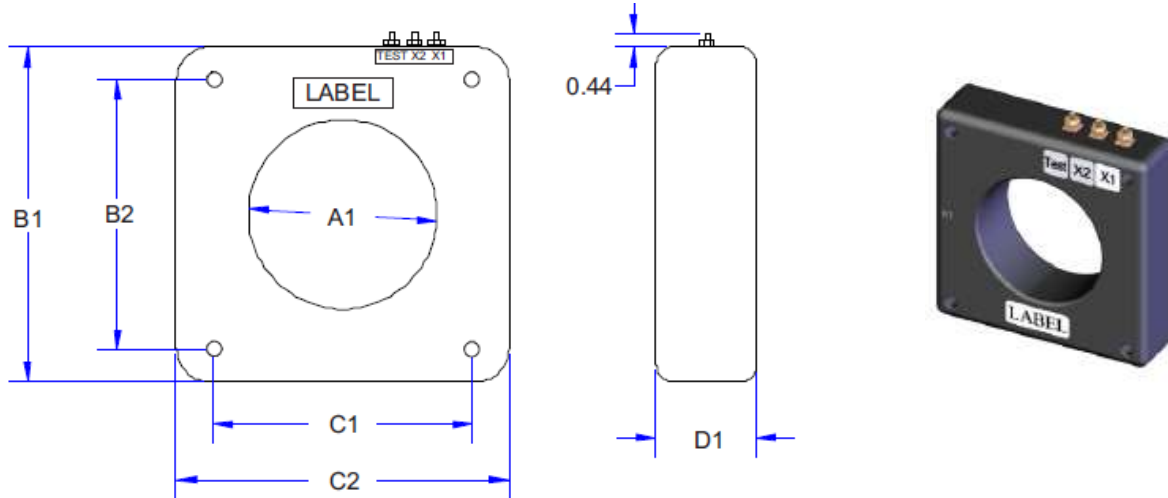


Electromagnetic Industries LLP

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TOROIDAL GROUND FAULT CURRENT SENSOR

Model GFL



Trip Current 5-60 AMPS

Model Number	Sensor Dimensions					
	A1	B1	B2	C1	C2	D1
GFL325T-1	3.25	5.73	4.7	4.7	5.73	1.15
GFL425T-1	4.25	6.17	N/A	4.86	5.92	1.15
GFL631T-1	6.31	8.5	6.75	6.75	8.5	1.28
GFL825T-1	8.25	10.48	8.5	8.5	10.48	1.53

Trip Current 100-1200 AMPS

Model Number	Sensor Dimensions					
	A1	B1	B2	C1	C2	D1
GFL325T-2	3.25	5.73	4.7	4.7	5.73	1.15
GFL425T-2	4.25	6.17	N/A	4.86	5.92	1.15
GFL631T-2	6.31	8.5	6.75	6.75	8.5	1.28
GFL825T-2	8.25	10.48	8.5	8.5	10.48	1.53

Trip Current 30-360 AMPS

Model Number	Sensor Dimensions					
	A1	B1	B2	C1	C2	D1
GFL325T-3	3.25	5.73	4.7	4.7	5.73	1.15
GFL425T-3	4.25	6.17	N/A	4.86	5.92	1.15
GFL631T-3	6.31	8.5	6.75	6.75	8.5	1.28
GFL825T-3	8.25	10.48	8.5	8.5	10.48	1.53