Maboneng

Electrical Distributors

ELSEC G2

Earth Leakage Relay

The ELSEC G2 is the first of the EPC Second Generation product range.

epc SECOND GENERATION

ELSEC G2

Specifications

Auxiliary Power Supply

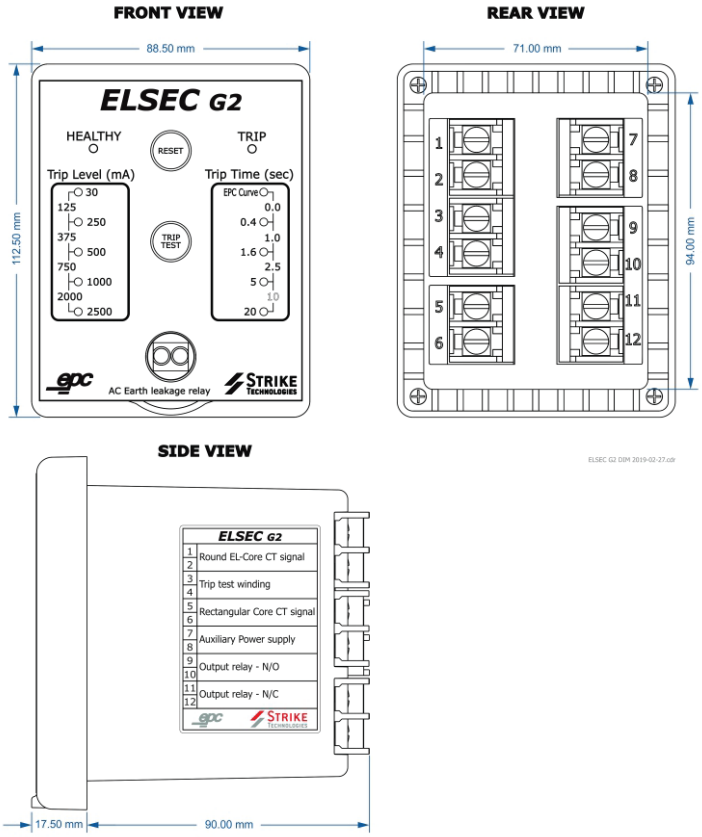
	Reference		Value
PSU		Range	110 - 550VAC ± 20%.
			110 – 283VDC ±20%
	@ 550VAC	Maximum load	65mA
	@ 283VDC	Maximum load	15mA

Trip accuracy & sensor insulation

Description	Value
Trip Accuracy	± 5%
Sensor insulation withstand	690VAC

Programmable Settings

AVAILABLE SETTINGS	
Trip Time (sec)	Earth Leakage Threshold - Trip Level (mA)
EPC curves	375, 500, 1000
0.0 0.4 1.0 1.6 2.5 5 10 20	30, 125, 250, 375, 500, 750, 1000, 2000, 2500



Why buy the ELSEC G2

The ELSEC G2 was designed to be "retro fitable", compatible with existing panel installations.

ELSEC G2 uses the ELCOR sensors and will work with the superseded EL-SEC ELECTRONIC blue sensors already operating in various applications.

The mA threshold (Trip Level) and time/curve (Trip Time) must be configured for the application prior to putting the protection relay into service.

ELSEC G2

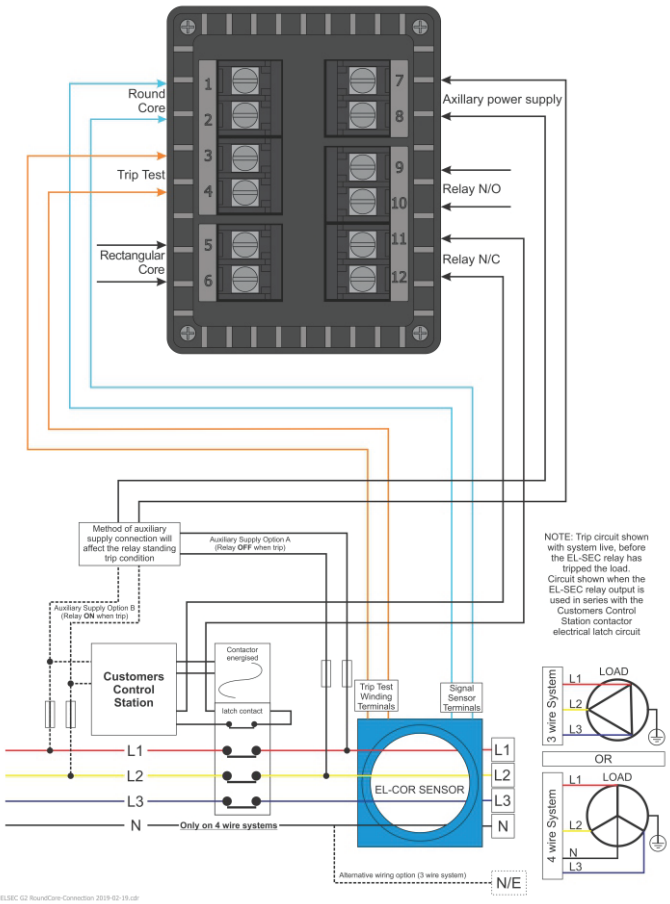
Key features and functions

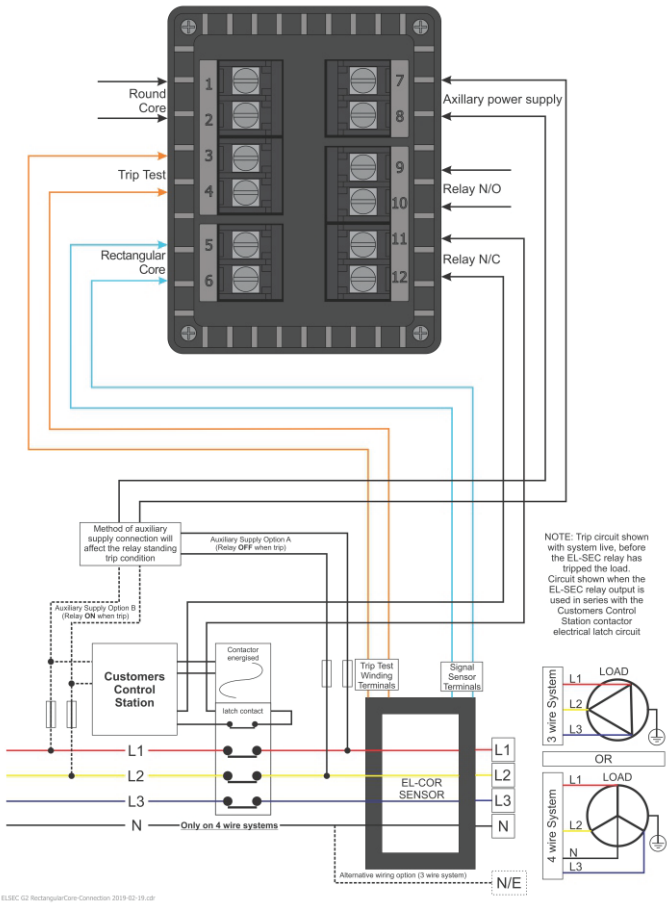
- mA threshold level and time level configuration can be selected from the list as found under specifications and be set by the user. The configuration settings can be modified by the user at a later date if required.

- The calibration for both the round and rectangular ELCOR sensors co-reside in the protection relay Either ELCOR sensor can be selected by the user for the application.

- Configuration using the EPC curve or Definite time are selectable in the standard ELSEC G2.

- One model of the ELSEC G2 reduces stock requirement as the multiple application levels are covered by the protection relays user configurable settings.





The ELSEC G2 can be applied to a machines with:

- Delta three wire supply or star four wire supply.
- ELSEC G2 auxiliary supply method A or B.

A: the ELSEC G2 will not have a supply when the supply to the machine is off, i.e. the protection relay will have no external source of power when tripped.

B: the ELSEC G2 could still be connected to a supply source with the machine is off, i.e. the protection relay could still be trip tested.

The ELSEC G2 uses separate dedicated terminals for both the round and the rectangular ELCOR sensors, this allows the user to keep only the ELSEC G2 in stock, which can be matched to any ELCOR sensor (excluding the grey Transcore) when put into service/installed.