

AC Current Sensing - Indication

ECS / LCS / LPM Series

Current Sensor - Current Indicator



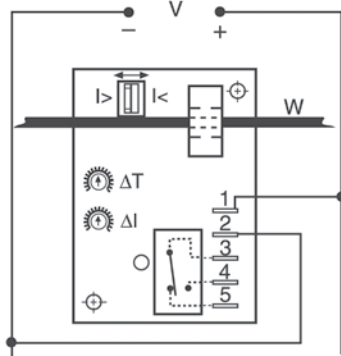
- Toroidal Through Hole Wiring
- 0.5...20 A Adjustable Trip Point
- Adjustable Trip Delay
- 10 A SPDT Isolated Output Contacts
- 5% Trip Point Hysteresis (Dead Band)

Complete Product Details:
<http://www.ssac.com/pp1.htm>



The ECS Series of Single Phase AC Current Sensors is a universal, overcurrent or undercurrent sensing control. Its built-in toroidal sensor eliminates the inconvenience of installing a stand-alone current transformer. Includes onboard adjustments for current sensing mode, trip point, and trip delay. Detects over or under current events like locked rotor, loss of load, an open heater or lamp load, or proves an operation is taking place or has ended.

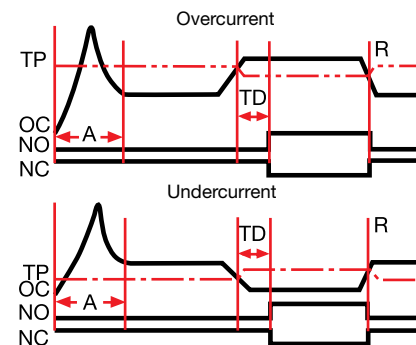
Connection



Relay contacts are isolated.
Dashed lines are internal connections.

V = Voltage I> = Overcurrent I< = Undercurrent
W = Insulated Wire Carrying Monitored Current

Function



TP = Trip Point R = Reset OC = Monitored Current
NO = Normally Open Contact NC = Normally Closed Contact
A = Sensing Delay On Start Up TD = Trip Delay

Technical Data

Sensor	Maximum Allowable Current	Steady – 50 A turns; Inrush – 300 A turns for 10 s
Output	Rating	10 A resistive at 240 V AC; 1/4 hp at 125 V AC; 1/2 hp at 250 V AC
Mechanical	Mounting Termination	Surface mount with two #6 (M3.5 x 0.6) screws 0.25 in. (6.35 mm) male quick connect terminals (5)

Ordering Table

Part Number	Input Voltage	Adjustable Set Point	Adjustable Trip Delay	Delay on Start
ECS40BC	120 V AC	0.5...5 A AC	0.5...20 sec	Fixed 1 sec
ECS41BC		2...20 A AC		

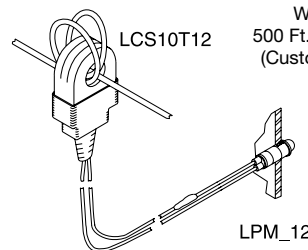


- Low Cost Go/No Go Indication
- May Be Connected To Wires Up To 500 Feet (152.4 m) Long
- Remote Monitoring of Currents Up To 50 A
- Green or Red LED Indicator Available

LCS and LPM Current Flow Indication

The LCS10T12 connected to the LPM12 or LPMG12 indicator is a low cost, easy to use, go/no go indication system for the remote monitoring of current flow. The LCS10T12 is installed on an adequately insulated wire of the monitored load. Its 12 in. (30.4 cm) leads are connected to the LPM12 or LPMG12 panel mount indicator. When current flows through the monitored wire the LED indicator glows.

Connection



Wire Length:
500 Ft. (152.4 m) Max.
(Customer Supplied)

Technical Data

Monitored Current	2 ... 50 A AC				
Current Range	Wire Passes	Min. Current	Max. Current	Max. Inrush	Max. Wire Dia.
	1	5 A	50 A	120 A	0.355 in. (9.0 mm)
	2	2.5 A	25 A	60 A	0.187 in. (4.7 mm)
	3	1.7 A	16.6 A	40 A	0.15 in. (3.8 mm)
Maximum Current	50 ampere-turns continuous				
Mechanical	Sensor Hole				
	0.36 in. (9.14 mm) for up to #4 AWG (21.1 mm ²) THHN wire				

Ordering Table

Part Number	Description
LCS10T12	AC Current Sensor
LPM12	Red LED Indicator
LPMG12	Green LED Indicator