

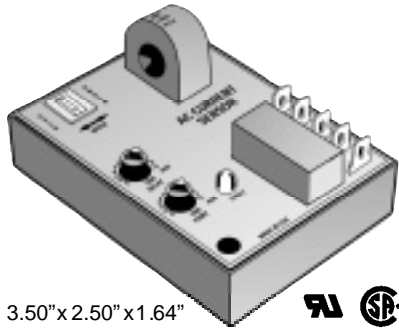
**IN STOCK**

# Universal AC Current Sensor

✓ **Switch Selectable Overcurrent or Undercurrent Control**

**11**

**CONTROLS & SENSORS**



3.50"x 2.50"x 1.64"  
(89x64x42mm)

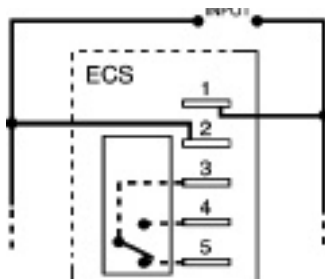


## ECS Series

- Switch Selectable Overcurrent or Undercurrent Control
- Adjustable Trip Points From 0.5 to 50 Amperes (120 Amp-turns Max.)
- Adjustable Trip Delays From 0.5 to 50 Seconds
- 1 Second Delay On Start Up
- 10 Amp, SPDT Isolated Relay Contacts
- Compatible With External Current Transformers
- 5% Dead Band Prevents Rapid Switching

**Description:** The ECS Series is a one-piece, off-the-shelf, universal, AC, over or undercurrent sensor/control. Its built-in toroidal sensor provides complete isolation. The output energizes when a fault is sensed. Use alone to 50 amps or with a 2 VA external current transformer (see below). LED fault indicator, .25" (6.35mm) quick connects. Mounts with two #6 screws. Toroid hole size is 0.36"(9.1mm) ID.

## Connection Diagram



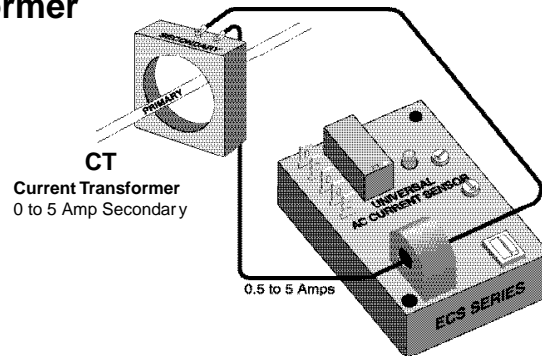
Series	Operating Voltage	Adjustable Trip Point	In Stock Part Numbers
ECS20BC	24VAC	0.5 to 5 amps	•
ECS21BC	24VAC	2 to 20 amps	•
ECS2HBC	24VAC	5 to 50 amps	
ECS40BC	120VAC	0.5 to 5 amps	•
ECS41BC	120VAC	2 to 20 amps	•
ECS4HBC	120VAC	5 to 50 amps	
ECS60BC	230VAC	0.5 to 5 amps	•
ECS61BC	230VAC	2 to 20 amps	•
ECS6HBC	230VAC	5 to 50 amps	

Other Options Available

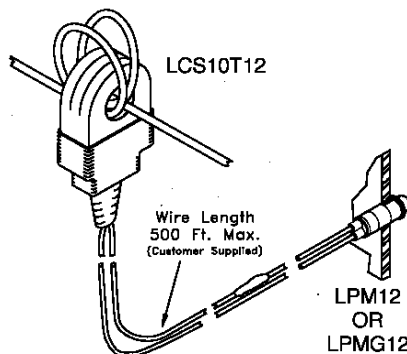
## Connecting An External Current Transformer

Pass the wire of the current to be monitored through the hole in the CT (this serves as the primary). Make one pass of the CT's secondary wire through the toroid on the ECS. Complete the CT's secondary circuit. When properly connected, the CT's secondary will appear to be "shorted".

Note: To increase sensitivity, multiple turns can be made through the ECS's toroid. The 0.5 to 5 amp range is divided by the number of turns through the toroid to create a new trip point range (i.e., 2 passes through toroid creates a sensing range of 0.25 to 2.5 amps on the ECS). With each pass through the toroid, you are adding a 0.5 VA burden to the CT's secondary.



## Low Cost AC Current Indicator - LCS10T12 with LPM12 or LPMG12



- Sensing Range - 1 Pass = 5 to 50 Amperes
- Sensing Range - 4 Passes = 1.3 to 12.5 Amperes
- For Higher Currents Use An External Current Transformer
- Self Powered, Easy to Connect, 12 Inch Lead Lengths
- LPM12 is a Red LED, LPMG12 is green, in a Mounting Bezel With 12" Leads
- LPM12 and LPMG12 Indicator Can Be Up to 500 Feet From The Sensor

**Description:** The LCS10T12 current sensor connected to the LPM12 or LPMG12 indicator is a low cost, easy-to-use system for the remote Go/No Go indication of the current flowing to a load. When the current flowing in the monitored wire is 5 ampere-turns or more, the LPM12 or LPMG12 will glow.

LPM 0.75"x 0.28"(19.0x7.1mm)  
LCS 1.5"x .98" x .46"(38x25x12mm)  
Hole .36"(9.1mm)  
LPMG 0.75"x 0.28"(19.0x7.1mm)

Part Number	Item
LCS10T12	Sensor
LPM12	Red LED
LPMG12	Green LED

**IN STOCK**

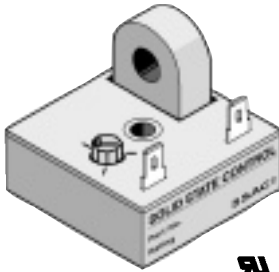
## Go/No Go Sensor/Control

✓ AC Current Interface for PLC or AC / DC Loads

### TCS Series (Go/No Go Self-Powered Current Switch)

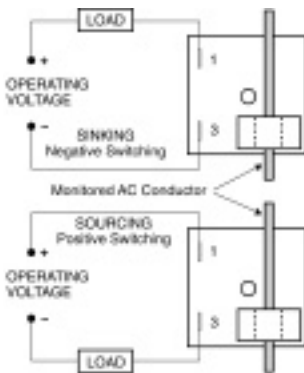
- Adjustable 2 to 20A: Fixed to 45A (for Higher Trip Points Use an External CT)
- Complete Isolation Between Sensed AC Current and Control Circuitry
- N.O. Closes on Current Rise, N.C. Opens on Current Rise
- 1 Amp Steady - 10 Amps Inrush
- 3 to 50 VDC, 24 to 240 VA in 2 Ranges
- Totally Solid State - Encapsulated
- .36"(9.1mm) Hole Through Sensor

**Description:** The TCS is a self powered AC current switch. The TCS Series has a solid state output that can sink or source current when connected to a PLC input module. Its normally open or normally closed output can also control loads rated up to 1 A steady - 10 A inrush. The TCS can be surfaced mounted or 35mm DIN rail mounted using the P1023-20 (S102320-1) adaptor.



2.0" x 2.0" x 1.60" (51x51x41mm)

### Connection Diagram



Operating Voltage	Actuate Current	Output Form	Part Number	In Stock Part Numbers
3 to 50VDC	2 to 20 A	Normally Open	TCSGAA	•
		Normally Closed	TCSGAB	•
	2 A	Normally Open	TCSG2A	
		Normally Closed	TCSG2B	
	40 A	Normally Open	TCSG40A	
		Normally Closed	TCSG40B	
24 to 240VAC	2 to 20 A	Normally Open	TCSHAA	•
		Normally Closed	TCSHAB	•
	2 A	Normally Open	TCSH2A	
		Normally Closed	TCSH2B	
	40A	Normally Open	TCSH40A	
		Normally Closed	TCSH40B	

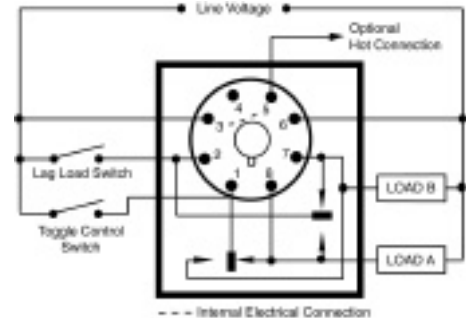
## Motor Duplexor • Alternating Relay



1.78 x 2.39 x 3.20  
(45x61x81mm)

### ARP Series

- Low Profile Selection Switch
- Alternating or Locked Operation
- Solid State Circuitry
- 10 Amp DPDT Output Contacts
- Simplified Field Programming
- Industry Standard 8 Pin Base Connection
- LED Status Indication
- 24VAC - 230VAC  $\pm 20\%$
- 1 Million Operations



Part Number	Operating Voltage	In Stock P/N
ARP23S	24VAC $\pm 20\%$	•
ARP43S	120VAC $\pm 20\%$	•
ARP63S	230VAC $\pm 20\%$	•

Other Models and Options Available.

The ARP Series is used in systems where equal run time for two motors is desirable. Their low profile selector switch and dual contact status indicators virtually eliminate field programming confusion. Selection of Load A or Load B will electrically lock the internal relay in that position. This allows maintenance on one motor while the other continues to cycle normally. \*The alternating action of the ARP occurs upon the opening of the control switch. The 8-Pin, internally cross wired ARP allows extra system load capacity through simultaneous operation of both motors.

**\*CAUTION:** Always disconnect line voltage before servicing any electrical equipment.

### Accessories

**BZ1**  
Panel Mount Kit for use with all SSAC Plug-in Time Delay Relays

**NDS-8**  
8 Pin Octal Socket  
Fits 35mm DIN Rail

**PSC8**  
2 Hold Down Clips for NDS-8 Socket