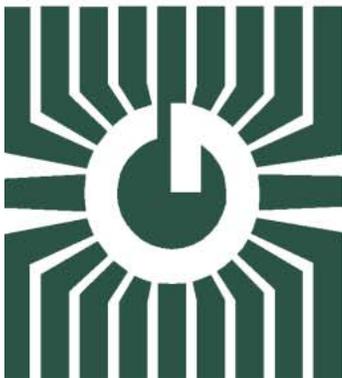
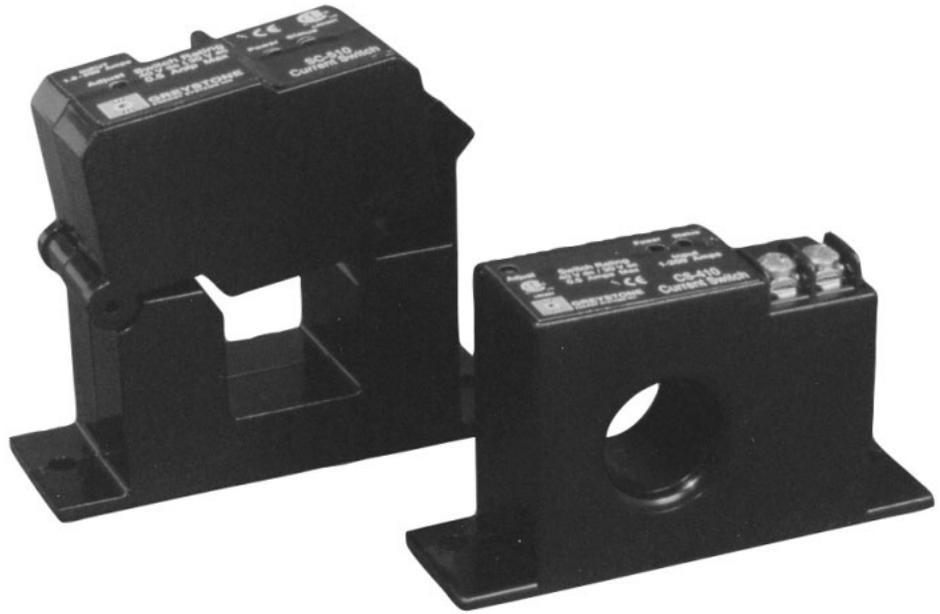


GREYSTONE
ACCURACY BY DESIGN



CURRENT SWITCHES



**Detect current fluctuation
remotely and reliably**

- Solid Core CS-400 Series Current Switches
- Split Core SC-500 Series Current Switches
- CS-325-HC High Current Switch

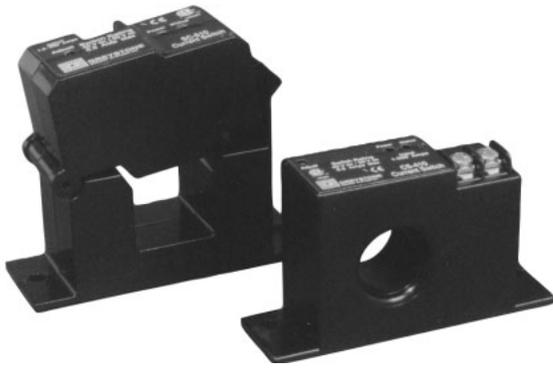
*Peace of mind
through reliable
current switches*

GREYSTONE IS AN ISO 9002 REGISTERED COMPANY

AC CURRENT SWITCHES

CS-400 / SC-500

ADJUSTABLE CURRENT-OPERATED SOLID-STATE RELAYS FOR SWITCHING AC OR DC CIRCUITS



FEATURES:

- Auto-ranging eliminates lost jumpers
- Self-powered and no insertion loss
- True digital switching and no leakage
- Small compact size
- Easy field adjustment with status LED's
- Input / Output isolation via current transformer
- Solid-state reliability
- Solid, reliable mounting method

DESCRIPTION:

The CS-400 / SC-500 series of AC current switches are solid-state switches that activate a contact closure whenever the monitored primary circuit current exceeds a pre-set level. Several models are available to switch various load types as indicated in the Product Ordering Chart. Several models feature integral LEDs to indicate device power and also the switch status. Most switch

models include a multi-turn adjustment to set the trip threshold to the desired value and the GnG model operates as a go/no-go status indicator with a factory set minimum threshold value. The switches can monitor up to 200 Amps continuous and feature an auto-range circuit to eliminate manual jumpers. All models are CSA certified, UL approved and CE compliant.

SPECIFICATIONS:

Setpoint Range	1-200 Amps for CS models, 1.5-200 for SC models, GNG model fixed at 1A, GNG-L model fixed at 0.5 A. CS/SC-325 and CS/SC-325-NS: <table border="1"> <tr> <td><u>Jumper</u></td> <td><u>Amp-Turns</u></td> </tr> <tr> <td>Low (none)</td> <td>1-6</td> </tr> <tr> <td>Medium</td> <td>6-40</td> </tr> <tr> <td>High</td> <td>40-200</td> </tr> </table>	<u>Jumper</u>	<u>Amp-Turns</u>	Low (none)	1-6	Medium	6-40	High	40-200	Enclosure Size (H x W x D)	Solid Core – 49 x 87 x 25 mm (1.95 x 3.45 x 1.0") Split Core – 70 x 87 x 30 mm (2.75 x 3.45 x 1.2")
<u>Jumper</u>	<u>Amp-Turns</u>										
Low (none)	1-6										
Medium	6-40										
High	40-200										
Input Frequency Range	10-400Hz	AC Conductors Hole	Solid Core – 20 mm (0.8") diameter Split Core – 24 x 19 mm (0.95 x 0.75")								
Wiring Connections	Solid Core – Barrier strip Split Core – Screw terminals (14 to 22 AWG)	Enclosure Material	UL 94V-0 flammability rated ABS, Insulation Class 600V								
Hysteresis	< 2% FS max	Certification	CSA-C, CSA-US, CE, UL								
Operating Temperature	0 to 70°C (32 to 158°F)	Power Supply	None – Self-powered								
Response Time	< 200 mS	Temp. Rating	-15 to 60°C (5 to 140°F)								

CURRENT SWITCH: PRODUCT ORDERING INFORMATION

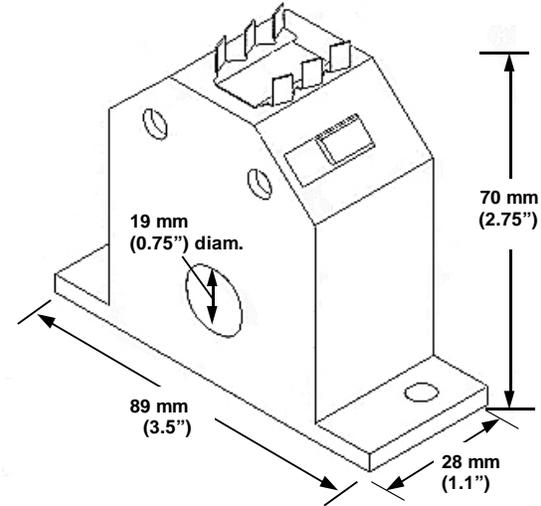
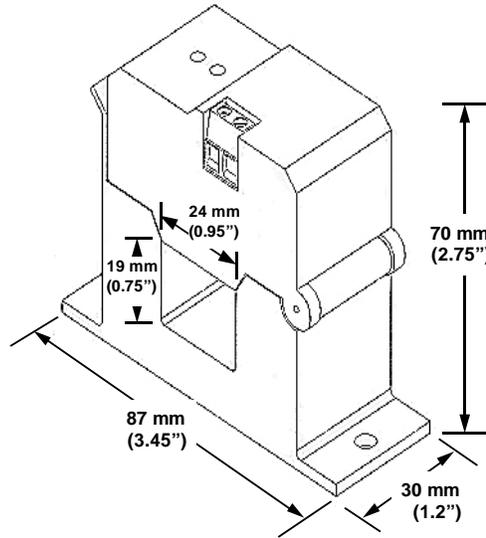
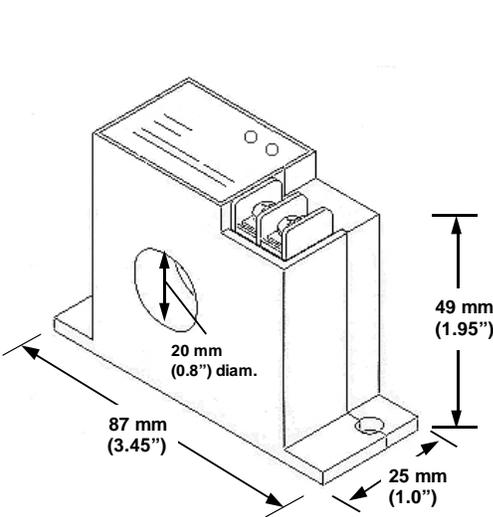
Model	Output Type	Type	Switch V Max	I Max	Von @ 24Vdc @ 150 mA	Leakage Current	Power LED	Status LED	Auto Range	Input I Min	Input I Max
CS-GNG	Mosfet	AC/DC	30Vac/40Vdc	500 mA	<0.1 V	<25 µA	No	No	Yes	1A	200A
CS-GNG-L	Mosfet	AC/DC	30Vac/40Vdc	500 mA	<0.1 V	<25 µA	No	No	Yes	0.5A	200A
CS-410	Mosfet	AC/DC	30Vac/40Vdc	500 mA	<0.1 V	<25 µA	Yes	Yes	Yes	1A	200A
CS-325*	Triac	AC	250Vac	1 Amp	n/a	<5 mA	No	No	No	1.25A	200A
CS-325-NS*	Triac	AC	250Vac	1 Amp	n/a	<1 mA	No	No	No	1.25A	200A
SC-GNG	Mosfet	AC/DC	30Vac/40Vdc	500 mA	<0.1 V	<25 µA	No	No	Yes	1.5A	200A
SC-510	Mosfet	AC/DC	30Vac/40Vdc	500 mA	<0.1 V	<25 µA	Yes	Yes	Yes	1.5A	200A
SC-325*	Triac	AC	250 Vac	1 Amp	n/a	<5 mA	No	No	No	1.6A	200A
SC-325-NS*	Triac	AC	250 Vac	1 Amp	n/a	<1 mA	No	No	No	1.6A	200A

* The CS/SC-325 with the snubber circuit is best used to switch high-current inductive loads such as small fan motors. The CS/SC325-NS is best used to switch resistive or low-current inductive loads such as relays or lights.

**Solid Core CS-400
Series Current Switch**

**Split Core SC-500
Series Current Switch**

**CS-325-HC
High Current Switch**



**Options
Relay Mounting Base
CR-112 / CR-124**



FEATURES:

- Can be easily mounted to any CS or SC product for easier installation
- Can be used as a stand-alone relay
- Convenient Relay Status LED
- Can be factory assembled with any CS or SC product
- Push-rivets supplied for fast and reliable field assembly
- SPDT Form C relay contacts
- Environmentally-friendly cadmium-free contacts
- Ideal for switching contactors, solenoids and motors
- Small compact size

DESCRIPTION:

The CR-112 and CR-124 Command Relays are line voltage relays for use with the CS and SC current sensors and switches or as

stand-alone devices. All models are CSA certified, UL approved and CE compliant.

SPECIFICATIONS:

Relay Coil	CR-112 12 Vac/dc ± 20% @ 18 mA CR-124 24 Vac/dc ± 20% @ 10 mA	Enclosure Size (L x W x D)	102 x 44 x 25 mm (4 x 1.75 x 1") 125 mm (4.9") length with mounting tabs
Relay Contacts	SPDT Form C (normally open, common, normally closed) 10 Amp resistive @ 250 Vac (UL508) 8 Amp inductive @ 250 Vac 5 Amp @ 30 Vdc	Mounting Holes Dimension	114 mm (4.5") spacing, 4.8 mm (0.19") diameter
Contact Resistance	100 mΩ maximum	Enclosure Material	UL 94V-0 flammability rated ABS
Oper. Temperature	-40 to 85°C (-40 to 185°F)	Operating Humidity	20 to 85% RH, non-condensing
Wiring Connections	Screw terminal block (12 to 28 AWG)	Manufacturing Process	ISO 9002 Certified



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Greystone Energy Systems Inc. is one of North America's largest ISO registered manufacturers of HVAC sensors and transducers for Building Automation Management Systems. We have conscientiously established a worldwide reputation as an industry leader by maintaining leading-edge design technology, prompt technical support, and a commitment to on-time deliveries. We take pride in our Quality Management System which is ISO 9002 certified, assuring our customers of consistent product reliability.

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