# **Direct Current Sensing Relay**

# CR5395 Series



### **OUTPUT OPTIONS**

The Relay is available with three different output configurations, electromechanical relay, optoisolated NPN transistor or ZeroCrossing optoisolated triac. Specify desired selection in part number.

# **RELAY (-ELR)**

Arrangement: 1 Form C (SPDT) Contact Material: Silver-cadmium oxide Terminals: 3<sup>1/4\*</sup> Male QC Mechanical Life: 10 million operations, typ.@ rated load Electrical Life: 100,000 operations, typ. @ rated load Initial Contact Resistance: 50 milliohms max. @ 500 mA, 12 VDC Contact Rating: UL508/873 & CSA

# **DC SWITCHING (-NPN)**

Vce (full off): 30 VDC max. Isink (full on): 120 mADC max.@ rated full-on Vce (full on): 1.5 VDC @ 120 mADC Isink Off state leakage current: 5ua @ 30 VDC (typical) Terminals: 2<sup>1/4°</sup> Male QC

## **AC SWITCHING (-TRC)**

Off state voltage: 240 VAC RMS max. Minimum switch voltage: 24 VAC RMS On state current: 500 mA RMS max. continuous Switching mode: Zero Crossing Off state leakage: 60 ua @ 240 VAC max. Terminals: 2 @ 1/4" Male QC The **CR5395** Series, Direct Current Sensing Relay provides a precision and cost effective method for monitoring Direct Current. Magnetic Modulator Technology is utilized for the current sensing to provide a stable and highly repeatable current trip. The current-carrying wire is routed through the opening extending through the top of the case. When current reaches the level set by the trip point adjustment, the relay trips and starts the adjustable timer. After the timer cycles the electromechanical relay energizes.

#### **Applications**

DC motor drives Battery Chargers Power Supply Management Uninterruptible Power Systems Motor Application

#### Features

Variable Trip Point and Time Delay Bi-polar Monitors Currents from 1.0 ADC to 100 ADC Electrical Isolation Between Circuits Output Relay Rated up to 20 Amps LED Trip Status Indicator Dead Band Prevents Relay Chatter Calibrated Dial External Current Transformers Available

### **Specifications**

Mounting:

3/16'' dia. clearance holes on  $1^{15/16''}$  by  $2^{15/16''}$  centers

Environmental:

Operating Temperature: -30° C to +70° C

Storage Temperature: -55° C to +85°

0-95% RH, Non-condensing

Input Supply Power:

Typical 80mA Max 100mA

Sensed Current: Max. Continuous: 200% Full Scale Altitude: 2000 meters max.

(Contact factory for High Altitude applications) Weight 0.5 LBS.

## **Regulatory Agencies**



VOLTAGE	LOAD TYPE	N.O. CONTACT	N.C. CONTACT
240 VAC	Resistive	20A	10A
240 VAC	Motor	2HP	1/2 HP
125 VAC	Motor	1HP	1/4 HP
28 VDC	Resistive	20A	10A

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Add: 16/F, Bldg. #3, Zhongke Mansion, No.1 Hi-Tech S. Rd, Hi-Tech Park South, Shenzhen, Guangdong, 518067 P.R.China

Tel: + 86-755-83289036 Fax: + 86-755-83289052

Relays, Switches, & Sensors

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# **Direct Current Sensing Relay**



**Example Part Numbers:** CR5395-EH-ACV-110-CD-ELR-I (Relay with CT on board) CR5395-EL-24D-330-CD-NPN-R1 (Relay with external CRDCS-100)

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Add: 16/F, Bldg. #3, Zhongke Mansion, No.1 Hi-Tech S. Rd, Hi-Tech Park South, Shenzhen, Guangdong, 518067 P.R.China Tel: + 86-755-83289036 Fax: + 86-755-83289052 E-mail: sales@isweek.com