# Chipsmall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

# Current Mark Displays

## CRM1000 Series



## CRM2000 Series



## CRM3000 Series
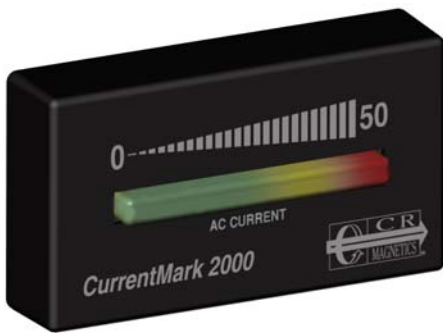
**Indicators and Displays**

The **Current Mark Displays** are designed as a low cost method for providing a visual indication and measurement of electrical current flow. The current-carrying wire is routed through the window opening in the current sensing transformer, providing sensing and power for the instrument. **CRM1000** Series high efficiency, 7 LED indicator that illuminates as the current approaches the full scale range. **CRM2000** Series is a modern looking light bar with nice visual appeal. **CRM3000** Series is an auto-ranging display with an input range up to 50 AAC.

### Applications
Monitor Status of Heater Elements
Observe Remote Loads
Indicate Phase Loss
Monitor Motor Operation

### Features
Self Powered
Quick Visual Marking of AC Current
Compact
Low Cost for high Volume OEM Applications

### Specifications
300AAC In-Rush    100AAC Continuous    50 AAC Rated
600 VAC Max rating
Thermoplastic Case Material
50/60 Hz Bandwidth*
-30°C to +60°C Operating Temperature
-55°C to +85°C Storage Temperature

* Contact Factory for additional input frequency ranges

### Regulatory Agencies

RoHS 2002/95/EC     MADE IN USA     c UL us LISTED MEASURING EQUIPMENT 4ST7

| PART NUMBERS | | | | |
|---|---|---|---|---|
| CRM1000 | - | | | 7-LED Indicator |
| CRM2000 | - | | | Light Bar |
| CRM3000 | - | 50 | | Auto Ranging to 50 AAC |

Add suffix for input range

**25** - 2-25 AAC
**50** - 2-50 AAC

Current Transformer:

**-I** Internal

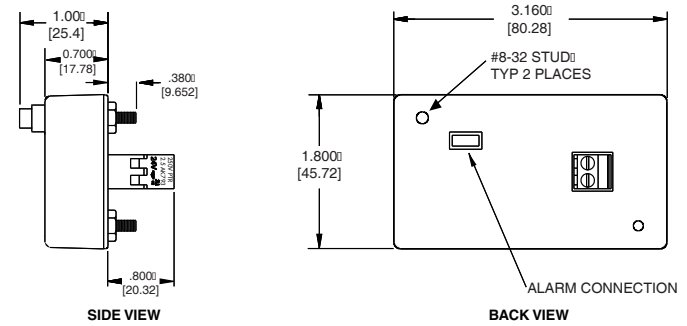**-R** Remote Split CR3110-1500-36
    (Included in Price)

CR3110-1500-36

The Professional
Energy Monitoring
Company

**CR MAGNETICS**
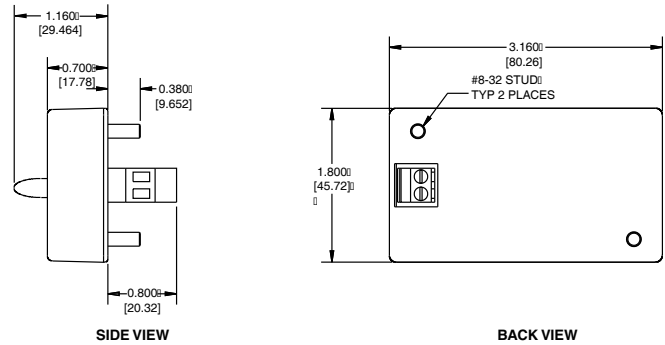
*ISO 9001:2008 Quality Management System*

3500 Scarlet Oak Blvd.   St. Louis  MO  USA  63122  V: 636-343-8518  F: 636-343-5119

Web: http://www.crmagnetics.com          80          E-mail: sales@crmagnetics.com

# Current Mark Displays

## OUTLINE DRAWING

### CRM1000 - I UNIT DIMENSIONS
SIDE VIEW · BACK VIEW

### CRM1000 - R UNIT DIMENSIONS
SIDE VIEW · BACK VIEW

### CRM2000 - I UNIT DIMENSIONS
SIDE VIEW · BACK VIEW

### CRM2000 - R UNIT DIMENSIONS
SIDE VIEW · BACK VIEW

### CRM3000-50-I UNIT DIMENSIONS
SIDE VIEW · BACK VIEW · ALARM CONNECTION

### CRM3000-50-R UNIT DIMENSIONS
SIDE VIEW · BACK VIEW · ALARM CONNECTION
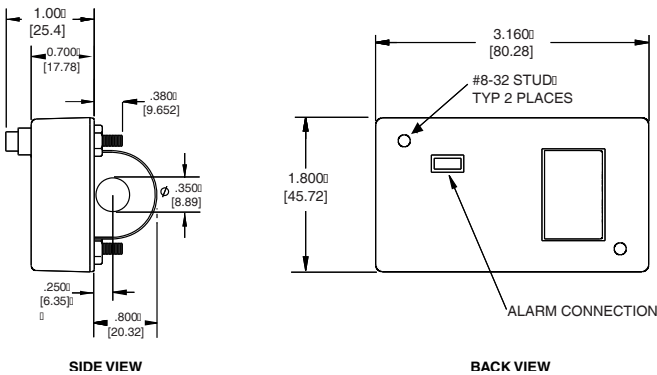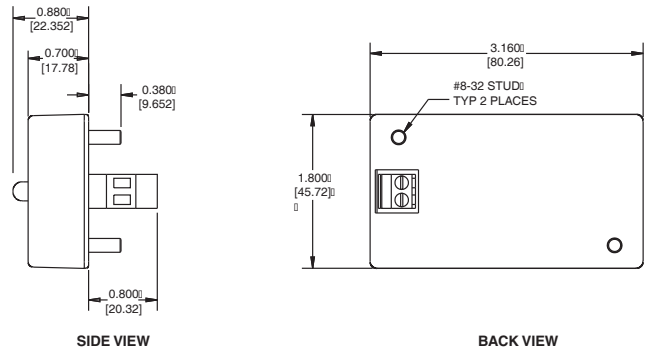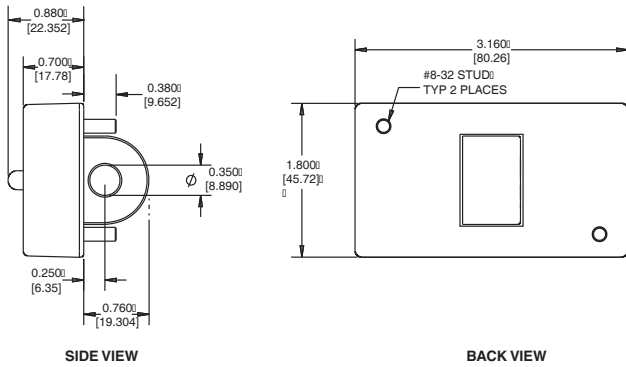
## CRM3000 SPECIFICATIONS

| | CALIBRATION | LOW SCALE | HIGH SCALE | ACCURACY |
|---|---|---|---|---|
| **CRM3000-50-I** BASIC ACCURACY | 10 AAC | 9.9 | 10.1 | 1.0 % |
| | 25 AAC | 24.25 | 25.25 | 1.0 % |
| | 50 AAC | 49.50 | 50.50 | 1.0 % |
| **CRM3000-50-R** BASIC ACCURACY | 10 AAC | 9.8 | 10.2 | 2.0 % |
| | 25 AAC | 24.50 | 25.50 | 2.0 % |
| | 50 AAC | 49.00 | 51.00 | 2.0 % |
| READABLE RANGE FROM 2 AAC TO 51 AAC | | | | |

### CR3110-1500-36
For Remote Application

| PART NUMBER | A | B | C | D | E | F |
|---|---|---|---|---|---|---|
| CR3110-1500-36 | 1.04 | 0.40 | 1.58 | 36.0 | 1.04 | 0.24 |

**E** — Indicators and Displays

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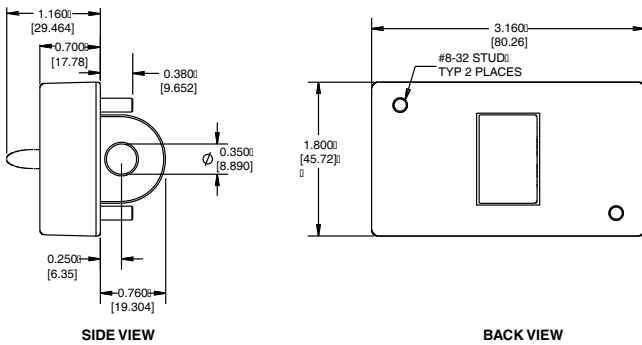CR MAGNETICS
ISO 9001:2008 Quality Management System

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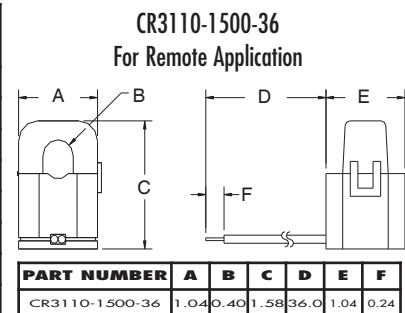
## CRM3000 CABLE ASSEMBLY CONNECTION DIAGRAM



**1** RED - Alarm Active High 3.3 Vdc (1mA Max)

**2** BLACK - Solid State Switch - NPN (20mA Max, 200 Vdc)

**3** GREEN - Ground

## ALARM PROGRAMMING AND OPERATING INSTRUCTIONS

### Models:

**CRM3000-50-I**
**CRM3000-50-R**

1. Provide power to the unit.
2. Determine desired current level to activate alarm
3. Press and hold alarm button for two seconds and release
4. LCD display blinks either the last alarm setting or "Aoff".
   (Unit is factory set in "Aoff" mode)
5. Depress and release alarm button until desired set-point is reached
6. Press and hold alarm button for two seconds
7. Set-point is stored in memory and unit returns to normal operation
8. To deactivate alarm, press and hold alarm button for two seconds in "Aoff" mode

| CRM3000 ALARM CABLE & PIN CONNECTOR (Optional) | |
| --- | --- |
| CRM3000-CBL-36 | CRM3000 Alarm Cable Assembly 36" Lead |

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