Current Mark Displays
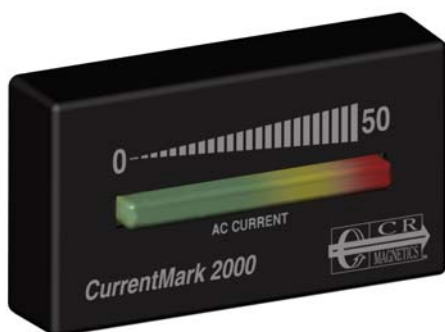
CRM1000 Series

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 approachs 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.

CRM2000 Series

CRM3000 Series

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^{0}C to +60^{0}C Operating Temperature
-55^{0}C to +85^{0}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
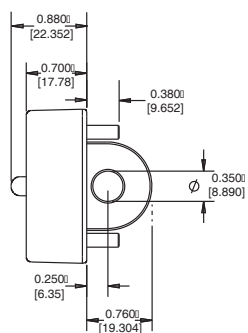**50** - 2-50 AAC

Current Transformer:

-I Internal

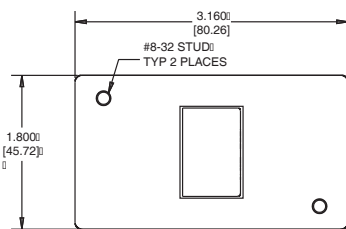**-R** Remote Split CR3110-1500-36
      (Included in Price)
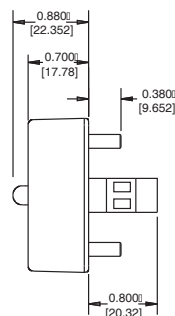
CR3110-1500-36

E

Indicators and Displays

OUTLINE DRAWING

CRM1000 - I UNIT DIMENSIONS

0.880 [22.352]
0.700 [17.78]
0.380 [9.652]
0.350 [8.890] Ø
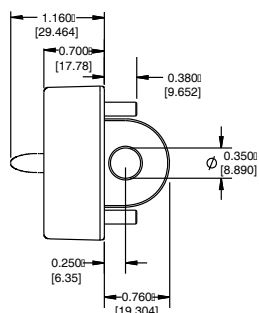0.250 [6.35]
0.760 [19.304]

3.160 [80.26]
#8-32 STUD TYP 2 PLACES
1.800 [45.72]
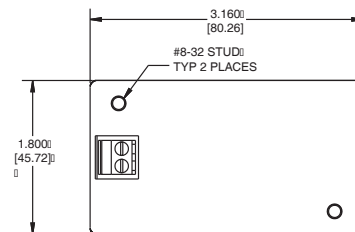
SIDE VIEW   BACK VIEW

CRM1000 - R UNIT DIMENSIONS

0.880 [22.352]
0.700 [17.78]
0.380 [9.652]
0.800 [20.32]

3.160 [80.26]
#8-32 STUD TYP 2 PLACES
1.800 [45.72]
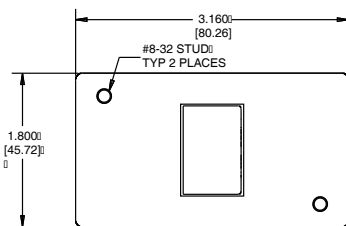
SIDE VIEW   BACK VIEW

CRM2000 - I UNIT DIMENSIONS

1.160 [29.464]
0.700 [17.78]
0.380 [9.652]
0.350 [8.890] Ø
0.250 [6.35]
0.760 [19.304]

3.160 [80.26]
#8-32 STUD TYP 2 PLACES
1.800 [45.72]
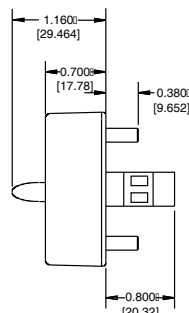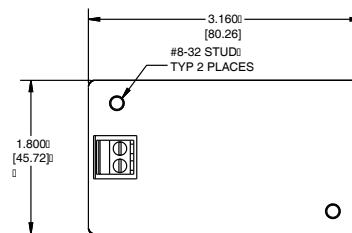
SIDE VIEW   BACK VIEW

CRM2000 - R UNIT DIMENSIONS

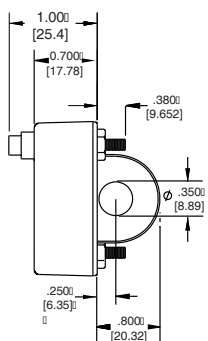1.160 [29.464]
0.700 [17.78]
0.380 [9.652]
0.800 [20.32]

3.160 [80.26]
#8-32 STUD TYP 2 PLACES
1.800 [45.72]
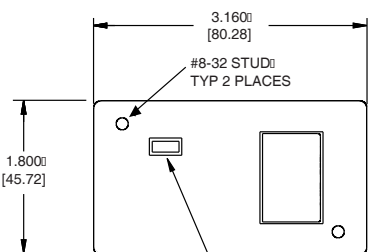
SIDE VIEW   BACK VIEW

CRM3000-50-I UNIT DIMENSIONS

1.00 [25.4]
0.700 [17.78]
.380 [9.652]
.350 [8.89] Ø
.250 [6.35]
.800 [20.32]

3.160 [80.28]
#8-32 STUD TYP 2 PLACES
1.800 [45.72]
ALARM CONNECTION
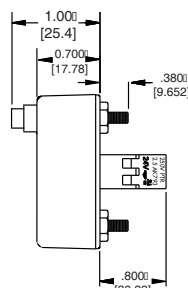
SIDE VIEW   BACK VIEW

CRM3000-50-R UNIT DIMENSIONS

1.00 [25.4]
0.700 [17.78]
.380 [9.652]
.800 [20.32]

3.160 [80.28]
#8-32 STUD TYP 2 PLACES
1.800 [45.72]
ALARM CONNECTION

SIDE VIEW   BACK VIEW

CRM3000 SPECIFICATIONS

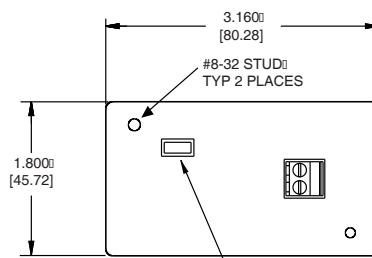|	CALIBRATION	LOW SCALE	HIGH SCALE	ACCURACY
CRM3000-50-I BASIC ACCURACY	10 AAC	9.9	10.1	1.0 %
	25 AAC	24.25	25.25	1.0 %
	50 AAC	49.50	50.50	1.0 %
CRM3000-50-R BASIC ACCURACY	10 AAC	9.8	10.2	2.0 %
	25 AAC	24.50	25.50	2.0 %
	50 AAC	49.00	51.00	2.0 %
READABLE RANGE FROM 2 AAC TO 51 AAC				

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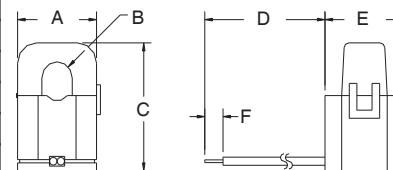
PART NUMBER	A	B	C	D	E	F
CR3110-1500-36	1.04	0.40	1.58	36.0	1.04	0.24

E

Indicators and Displays

Current Mark Displays

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
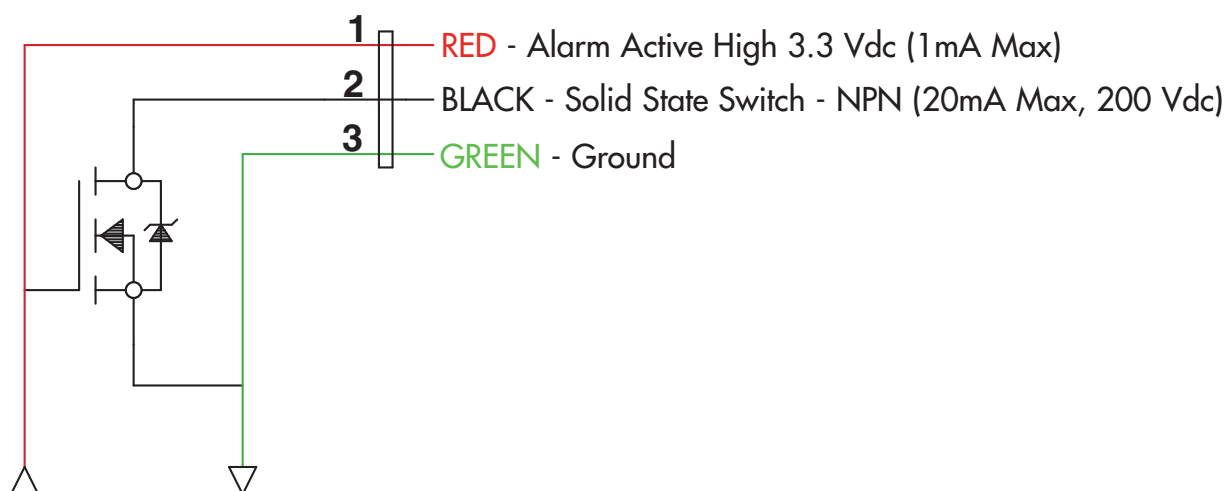
ALARM PROGRAMMING AND OPERATING INSTRUCTIONS

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

E

Indicators and Displays

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