

CSI-1

CHARGE STATUS INDICATOR

SPECIFICATIONS

Physical Spec

Size

Length: 3.0"
Width: 2.125"
Height: 4.1"

Weight

7 oz.

Environmental

Storage

Temperature: -50°C to +85°C
Humidity: 0% to 95%, non-condensing

Operating

Temperature: -40°C to +72°C
Humidity: 0% to 95%, non-condensing

Mounting

Shelf or desktop

Construction

Chassis

Fully enclosed, anodized aluminum, removable screws allow access inside
Externally accessible connectors and LEDs

Electrical

Single printed circuit board inside chassis

Power

Voltage

8 to 30 Vdc

Consumption

.75 W maximum, at 12 Vdc

Protection

Isolation

Minimum 4000 Vdc to ground, infinite duration, to any terminal input

Input Impedance

Infinite to current conductor (fully isolated)

Internal Relay

Operation

Operates when current and voltage drop below respective limit values

Type

Non-latching mechanical, SPDT contacts

Contacts

Rated Load: 1 A at 24 Vdc, .5 A at 125 Vac

Minimum Load: 1 mA at 5 Vdc

Maximum Operating Voltage: 60 Vdc, 125 Vac

Maximum Switching Capacity: 62.5 VA, 30 W

Service Life: 5 million mechanical (minimum), 1 million electrical (typical)

LED Indicators

Alarm

Red: voltage and current are below respective limit values

Voltage

Green: input is greater than limit value

Current

Green: current exceeds 1 A

Controls

Internal

Potentiometer: 20-turn, used to adjust voltage limit value

Test points: 2, female, used to connect DVM when setting voltage limit value

External

None

Connectors

Detachable, screw-down, with 5 terminals, 12 to 22 AWG

Terminal 1: normally open relay contact

Terminal 2: relay common

Terminal 3: normally closed relay contact

Terminal 4: N, battery negative

Terminal 5: B, battery positive

Transient Filtering

Current sensor includes hysteresis and .6 second filter to ignore momentary current fluctuations

Range

Voltage Limit

Adjustable from 10 to 30 Vdc

Current Limit

Factory set to 1 A

Accuracy

Voltage: the greater of $\pm 2\%$ or .2 Vdc as compared to 10 times limit value

Current: $\pm .2$ A