

HACS LIGHT OUT DETECTOR SPECIFICATIONS

Physical

Size

Height: 2.25"

Width: 1.70"

Thickness: .6"

Weight

3 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

4-40 screw into G1 module rack

Construction

Housing

Completely sealed, non-conductive plastic case

Externally accessible adjustments and LEDs

Electrical

Single printed circuit board inside housing

Power

Voltage

Input: 20 to 28Vdc

Consumption

Less than 30mA at 24Vdc

Protection

Isolation

Minimum 4000Vdc from current leads to output and power leads

Input Impedance

Infinite to current conductor (fully isolated)

Output

Operation

Open collector type, pulls low when current exceeds limit value

Non-latching, restores automatically

Load

Maximum Load: 10mA_{dc} sink

Maximum Output Voltage: 36V_{dc}

Transient Filtering

Each sensor includes hysteresis and a .53 second filter that will ignore momentary current fluctuations

LED Indicators

Current Level (2)

Green: indicates current exceeds respective limit value (separate LEDs for major and low current failures)

Power

Green: indicates that power has been applied to the unit

Controls

Potentiometer (2)

20-turn, used to adjust current limit value

Test points (3)

Female, used to connect DVM when setting current limit value

Connector

Single row, five terminals, male, conforms to Opto-22 G1 std.

Terminals 1 & 2: AC Load, in/load

Terminal 3: Power Input, positive

Terminal 4: Output

Terminal 5: Power Input, negative

Range

Current limit value may be adjusted between .02 and .15A_{ac} rms or .22A peak

Accuracy

The greater of ±4% or .005A_{ac} as compared to current limit value