

# LOD-1 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 lamp current exceeds limit value

Non-latching, restores automatically

### Load

Maximum Load: 10mA<sub>dc</sub> sink  
Maximum Output Voltage: 36V<sub>dc</sub>

---

## Transient Filtering

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

---

## LED Indicators

### Lamp Current (2)

Green: indicates lamp current exceeds respective limit value (separate LEDs for dual and single lamp 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 values

---

## 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 .2 and 1.5A<sub>ac rms</sub>

---

## Accuracy

The greater of ±4% or .03A<sub>ac</sub> as compared to current limit value