LD-Series ELECTRONIC DIMMER CONTROLS

The LD-Series represents a dynamic breakthrough in dashboard technology, with its programmable circuitry, superior design, and unparalleled performance that affords seamless integration into most any dash panel. A variety of options, along with superior performance, functionality, and aesthetics assure compliance with the most stringent customer requirements. Key features include: robust design package with all components encased in switch housing, eliminating wire chafing and providing cost-savings as well with minimized electrical connections; IP67 sealing which prevents PCB degradation and eliminates short circuit potential. Superior heat dissipation is achieved with a heat sink mass which is over 50% larger than competitive products. Fully programmable circuitry lets the designer decide illumination levels and detent positions. EMC eliminates electrical "noise" and provides interference-free radio signals. Ease of assembly is accommodated with polarized integral connectors and an industry standard mounting hole.









Product Highlights:

- 3 Choices for incremental dimming rates
- 12 or 24 Volts
- Laser Etched or Lens Illumination
- IP67 Sealing

Typical Applications:

- On/Off-Highway Equipment
- Agricultural Equipment
- Construction Equipment



Electrical

Contact Rating 9-16VDC, 2-10Amp. Terminals 6.3mm (0.250" TAB) Contacts solid-state load switching

Output PWM 200 Hz.

EMI/EMC SAE J 1113 and SAE J 1455

Conducted Transient

Emissions

RF Conducted Emissions Conducted Susceptibility:

Test pulse #1 Test pulse #2 Test pulse #3a, #3b Load Dump: Test Pulse #5 Power lead Disturbance

(Power Dips)

AF Conducted Immunity Direct RF Injection (DRFI) Abnormal Vehicle Operating

Conditions

RF Radiated Emissions

Radiated Immunity-Absorber Lined

Chamber

Electrostatic Discharge:

Shipping / handling Electrostatic

Discharge: Human Static

Discharge

1000V @ 60 Hz was applied for Dielectric Strength

each unit for 1 minute

Reverse Polarity 24VDC for 5 minutes

Environmental

Operating Temperature Vibration

-40°C to + 85°C Resonance Search

Individual resonance searches were conducted with vibration applied along each of the three mutually

perpendicular axes. 24-50 Hz 0.40DA 50-2000 Hz ± 10 G's peak

Random Vibration

The random vibration endurance test conditions were sequentially conducted in each of the three mutually perpendicular axes, 1hr/axis PSD (G²/Hz) 9.36 grms

Freq. (Hz) 24 Hz 0.06 60 Hz 0.50 100 Hz 0.025

1000 Hz 0.025 0.025 2000 Hz

During the test, all units were operated at a load current of 2A

with 12.5VDC

Salt Spray Per Mil-Std 202F, Method 101D, Test Condition A. Duration 96 hrs.

Per Mil-Std 810C, Method 510.2. Air velocity 300 ± 200 Feet/Min., Test

Duration 16 Hr.

Moisture Resistance Per Mil-Std 202F, Method 106E. Test

Criteria-pre and post test operation

of switch.

Mechanical

Endurance 100,000 cycles minimum

Physical

Function Incremental for continuous

dimming

Operation Momentary

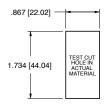
Lighted LED's internally dimmed PBT Polyester V-0 flammability Base Polycarbonate or Nylon 6/6 Rocker

Glass filled

PBT Polyester V-0 flammability **Bracket**

Connector Nylon 6/6 toughened **Actuation Force** $300 \text{ gm} \pm 50 \text{ gm}$ Weight 52 grams

Mounting Specifications



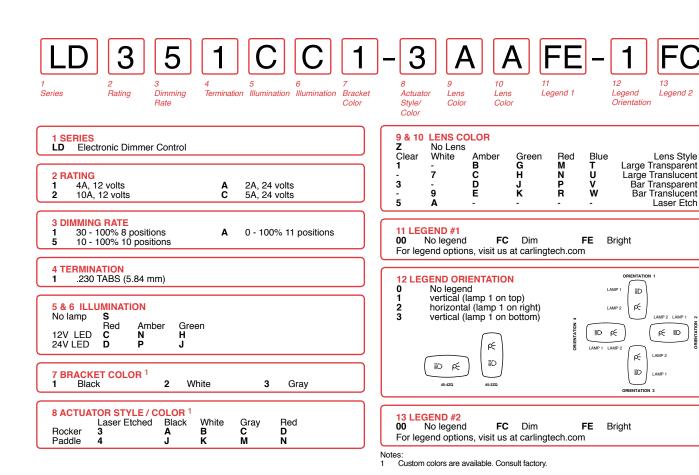
Dust

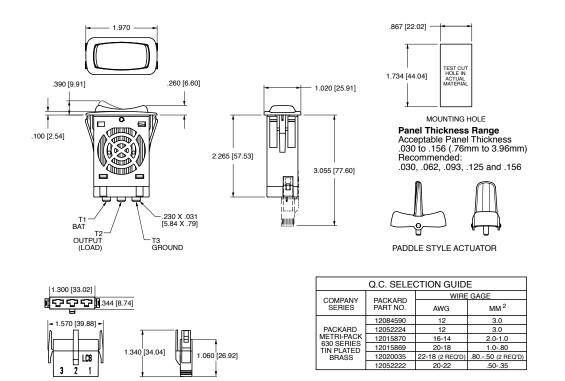
MOUNTING HOLE

Panel Thickness Range Acceptable Panel Thickness .030 to .156 (.76mm to 3.96mm) Recommended:

.030, .062, .093, .125 and .156

*Manufacturer reserves the right to change product specification without prior notice





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About Carling

Founded in 1920, Carling Technologies is a leading manufacturer of electrical and electronic switches and assemblies, circuit breakers, electronic controls, power distribution units, and multiplexed power distribution systems. With four ISO registered manufacturing facilities and technical sales offices worldwide, Carling Technologies Sales, Service and Engineering teams do much more than manufacture electrical components, they engineer powerful solutions! To learn more about Carling please visit www.carlingtech.com/company-profile.

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