

LD-Series Electronic Dimmer Control



The NEW LD-Series represents a dynamic breakthrough in dashboard technology, programmable circuitry, superior design, and unparalleled performance that will afford seamless integration into most any dash panel. A Variety of options, along with superior performance, functionality, and aesthetics assure compliance with most any customer requirement. In addition, our integrated design can provide savings by reducing the need for insulated wires and con**Dielectric Strength**

1000V - live to dead metal parts

Electrical Life

50,000 cycles

Mechanical Life 100,000 cycles

Operating Temperature

-40°C to +85°C

Electrical

Contact Rating 4 amps, 14 VDC 7 amps. 14 VDC 10 amps, 14 VDC 2 amps, 28 VDC 3.5 amps, 28 VDC 5 amps, 28 VDC

Contacts Solid State

nations standard.

EMI/EMC Per SAE J 1113 & SAE J 1455

Dielectric Strength. A potential of 1000V @ 60Hz was

applied to each unit for one minute. The voltage was increased from 0 to 1000V at a rate of 500V per second and then reduced from 1000V to 0 at a rate of 500V per second. No noticeable signs of flashover, arcing or perforation were evident. All units operated properly both

before and after test.

Mechanical

Endurance 100,000 cycles minimum Actuation Force. 300 grams ± 50 grams

Physical Characteristics

Lighted LED - internally dimmed, rated

100.000 hours 1/2 life

PBT Polyester with V-0 flammability

rating

Actuator Polycarbonate or Nylon 6/6 glass

filled

PBT Polyester with V-0 flammability

rating

Connector Nylon 6/6 toughened

Function Incremental or continuous dimming

Operation Momentary Weight 52 grams

For more detailed specifications, consult factory.

Environmental

Operating Temperature . . . -40° C to + 85° C Resonance Search Vibration

> Individual resonance searches were conducted with vibration applied along each of the three mutually perpendicular axes. 24-50 Hz 0.40

DA; 50-2000 ±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. 9.36 Grms

Frequency (Hz) PSD (G²/Hz)

24 Hz 0.06 60 Hz 0.50 100 Hz 0.50 0.025 1000 Hz 2000 Hz 0.025

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

12.5 VDC.

Per Mil-Std 202F, Method 213B,

Test Condition K @ 30G's. Tested with connector. Test criteria - No loss of circuit during test, pre, & post test contact resistance.

Per Mil-Std 202F, Method 101D, Salt Spray

Test Condition A, 96 Hrs.

Thermal Shock Per Mil-Std 202F, Method 107F, Test

Cond. A, -55°C to 85°C. Test criteria - pre & post test contact resistance

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

Test Criteria - pre and post test con-

tact resistance.

Per Mil-Std 810C, Method 510.2 Air

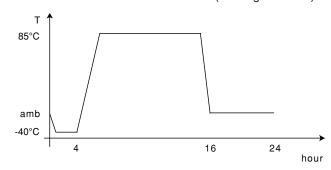
velocity 300± 200 ft/min, test dura-

tion 16 hr.

Temperature Cycle......Temperature Cycle.....

.According to SAE J1455,

Sec. 4.1.3.1 (See Figure below)



RED

M

Ν

R

BLUE

Т

U

W

LENS STYLE

Transparent

Translucent Bar

Transparent

Laser Etch

BRIGHT

AMP2 LAMP1 8

დ ≣D

ORIENTATION OF ACTUATOR/LENS IN PANEL ORIENTATION 1

₽D

ρ÷

≣D

LAMP2 P€

≣D ρ⊱

Large

Large

Bar Translucent



LD 3 5 1 C C 1 - 3 A A FE - 1 FC

1 2 3 4 5 6 /
Series Rating Dimming Termination Illumination Illumination Illumination Illumination Color

8 9 10 11 12 13
Actuator Lens Color Lens Color Legend One Style/Color Color Color Lens Color Legend Orientation

GREEN

G

н

Κ

00 No legend FC DIM
For additional legend options, see page 69 of this catalog.

AMBER

С

Е

1 SERIES

LD Electronic Dimmer Control

2 RATING
1 4A, 14 volt 3 10A, 14 volt C 5A, 28 volt
2 7A, 14volt A 2A, 28 volt

3 DIMMING RATE

1 30 - 100% 8 positions A 0 - 100%11 positions 5 10 - 100% 10 positions

4 TERMINATION

.250 TABS (6.4 mm)

5 & 6 ILLUMINATION No lamp S

Red Amber Green
12V LED **C N H**24V LED **D P J**

7 BRACKET COLOR¹

1 Black 2 White 3 Gray

8 ACTUATOR STYLE / COLOR

9 & 10 LENS COLOR Z NO LENS

9

12 LEGEND ORIENTATION

vertical (lamp 1 on top)

horizontal (lamp 1 on right)

vertical (lamp 1 on bottom)

No legend

11 LEGEND #1

WHITE

CLEAR

5

0

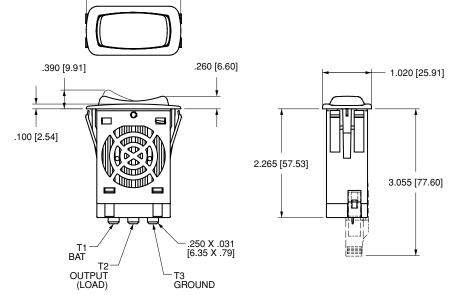
2

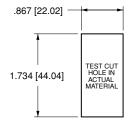
13 LEGEND #2
00 No legend FC DIM FE BRIGHT
For additional legend options, see page 69 of this catalog.

NOTES

Custom colors are available. Consult factory.

1.970



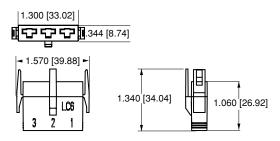


MOUNTING HOLE

Panel Thickness Range Acceptable Panel Thickness .030 to .156 (.76mm to 3.96mm) Recommended: .030, .062, .093, .125 and .156



PADDLE STYLE ACTUATOR



Q.C. SELECTION GUIDE			
COMPANY SERIES	PACKARD PART NO.	WIRE GAGE	
		AWG	MM2
PACKARD METRI-PACK 630 SERIES TIN PLATED BRASS	12084590	12	3.0
	12052224	12	3.0
	12015870	16-14	2.0-1.0
	12015869	20-18	1.080
	12020035	22-18 (2 REQ'D)	.8050 (2 REQ'D)
	12052222	20-22	.5035