



LD-Series

Electronic Dimmer Controls

PRODUCT WEBPAGE

request sample, configure part





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.

2-10 12-24 Pole Amps

Typical Applications

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

Tech Specs

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 J1113 and SAE J1455 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:		
Dielectric Strength	000V @ 60 Hz was applied for each unit for 1 minute		
Reverse Polarity	24VDC for 5 minutes		

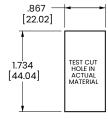
Environmental

Operating Temp.	-40°C to + 85°C
Vibration	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, Ihr/ axis Freq. (Hz) PSD (G²/Hz) 9.36 grms 24 Hz 0.06 60 Hz 0.50 100 Hz 0.025 1000 Hz 0.025 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.
Dust	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.

Physical

Function	Incremental for continuous dimming		
Operation	Momentary		
Lighted	LED's internally dimmed		
Base	PBT Polyester V-0 flammability		
Rocker	Polycarbonate or Nylon 6/6 Glass filled		
Bracket	PBT Polyester V-0 flammability		
Connector	Nylon 6/6 toughened		
Actuation Force	300 gm ± 50 gm		
Weight	52 grams		

Mounting Specifications



MOUNTING HOLE

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

Ordering Scheme

Sample Part Number Selection

1. SERIES

LD Electronic Dimmer Control

2. RATING

4A, 12 volts 2A, 24 volts 5A, 24 volts 7A, 12 volts 10A, 12 volts

3. DIMMING RATE

30 - 100% 8 positions 10 - 100% 10 positions **A** 0 - 100% 11 positions

4. TERMINATION

.230 TABS (5.84 mm)

5 & 6. ILLUMINATION

No lamp **S** Red Amber Green 12V LED

7. BRACKET COLOR

Black White Gray

8. ACTUATOR STYLE / COLOR

Laser Etched Black White Gray Red C M Ν Paddle Κ

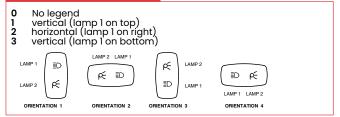
9 & 10. LENS COLOR

Z Clear 1 - 3 -	No Lens White - 7 - 9	Amber B C D	Green G H J K	Red M N P R	Blue T U V W	Lens Style Large Transparent Large Translucent Bar Transparent Bar Translucent
-	9	E	K	R	w	Bar Translucent
5	Α	-	-	-	-	Laser Etch

11. LEGEND #1

00 No legend FC Dim FE Bright For legend options, visit us at carlingtech.com

12. LEGEND ORIENTATION



13. LEGEND #2

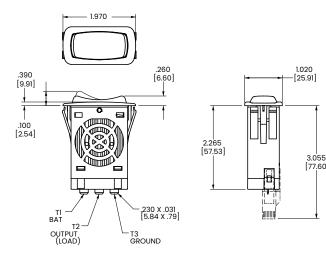
00 No legend FC Dim FE Bright For legend options, visit us at carlingtech.com

Custom colors are available. Consult factory.

Configure Complete Part Number >

Dimensional Specs

inches [millimeters]





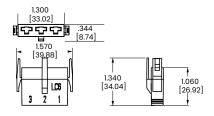
MOUNTING HOLE

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PADDLE STYLE ACTUATOR



Q.C. SELECTION GUIDE						
COMPANY	PACKARD	WIRE GAGE				
SERIES	PART NO.	AWG	MM ²			
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			

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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 six ISO9001 and IATF16949 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.

To view all of Carling's environmental, quality, health & safety certifications please visit www.carlingtech.com/environmental-certifications.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

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LTILA6E-1S-WH-RC-FN12VXCR1 6-1571986-9 8007K26N324V52 8055K32Z7V 8055K52Z7V 8138K20E6M50 84206L 84312LX
PREDD5-07F-BB0GW 999-16716-002 999-16716-003 999-16716-004 A101J1V3Q004 A101J2ZQ004 A101J4ZQ004 A101J51CB0004
A103J1ZQ004 A201J1AQ004 A201J3ZB004 A201J50ZQ004 A203J51ZQ0004 A435S1YZQ H8500XBBBBL-A H8653VBBG2577W
HB130CHNWWNAAC R13112ABB-602W 1251.0303 AE205J60V3B004 1352.0107 1571099-3 1571987-4 1571987-5 1571989-7
1571988-5 B123J77V7B2 B226J50W4Q22P B433J37ZQ22M 160212E 1634200-7 1801.1164 1839.1502 PANEL-PLUG-VHP-BLACK
PANEL-PLUG-VHP-WT K1ABBSCADN KG312A2DXD246X 250011E714 2600HM11E 2600R21E 2637LH/2A7/122048L0
2639LH/2A7/127000L0