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; 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



Resources:

<u>Configure a Complete Part</u>
Download CAD & Sales Drawing >



Typical Applications:

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



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www.carlingtech.com

Electrical

Contact Rating Terminals Contacts Output EMI/EMC 9-16VDC, 2-10Amp. 6.3mm (0.250" TAB) solid-state load switching PWM 200 Hz. 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 Ś Electrostatic Discharge: Shipping / handling Electrostatic Г Discharge: Human Static Discharge 1000V @ 60 Hz was applied for Ν each unit for 1 minute 24VDC for 5 minutes

Environmental

Operating Temperature	-40°C to + 85°C		
Vibration	Resonance S		
		ith vibration applied	
		ith 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		
		nutually perpendicular axes, 1hr/axis	
	24 Hz	PSD (G ² /Hz) 9.36 grms 0.06	
		0.50	
	100 Hz		
	100 Hz		
	2000 Hz		
	During the test, all units were		
	operated at a load current of 2A with 12.5VDC.		
Solt Sprov		-	
Salt Spray	Per Mil-Std 202F, Method 101D, Test Condition A. Duration 96 hrs.		
Duet	Per Mil-Std 810C, Method 510.2. Air		
Dust			
	Duration 16 H	± 200 Feet/Min., Test	
Majatura Dagiatanga			
Moisture Resistance	Per Mil-Std 202F, Method 106E. Test		
	Criteria-pre and post test operation of switch.		
	OF SWITCH.		

Dielectric Strength Reverse Polarity

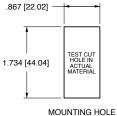
Physical

Function

Operation Lighted Base Rocker

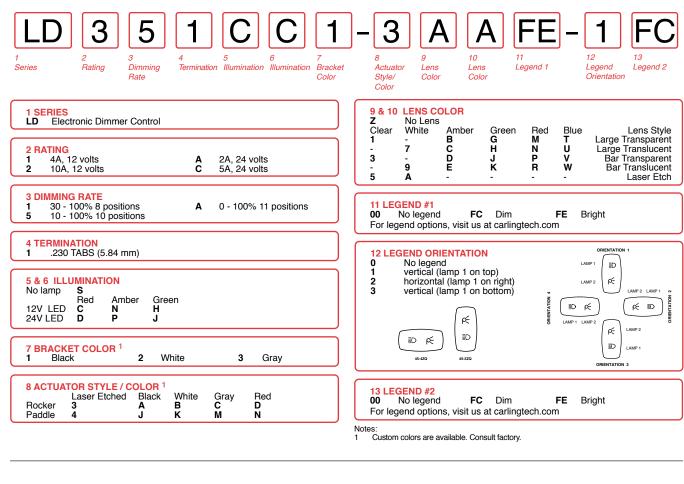
Bracket Connector Actuation Force Weight Incremental for continuous dimming Momentary LED's internally dimmed PBT Polyester V-0 flammability Polycarbonate or Nylon 6/6 Glass filled PBT Polyester V-0 flammability Nylon 6/6 toughened 300 gm ± 50 gm 52 grams

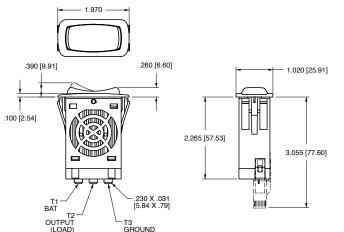
Mounting Specifications

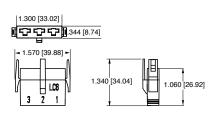


Panel Thickness Range Acceptable Panel Thickness .030 to .156 (.76mm to 3.96mm) Recommended: .030, .062, .093, .125 and .156

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







Q.C. SELECTION GUIDE				
COMPANY SERIES PART NO.	DACKARD	WIRE GAGE		
	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	

.867 [22.02] -

1.734 [44.04]

TEST CUT HOLE IN ACTUAL MATERIAL

MOUNTING HOLE

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

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

Panel Thickness Range

PADDLE STYLE ACTUATOR

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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.

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

Worldwide Headquarters

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