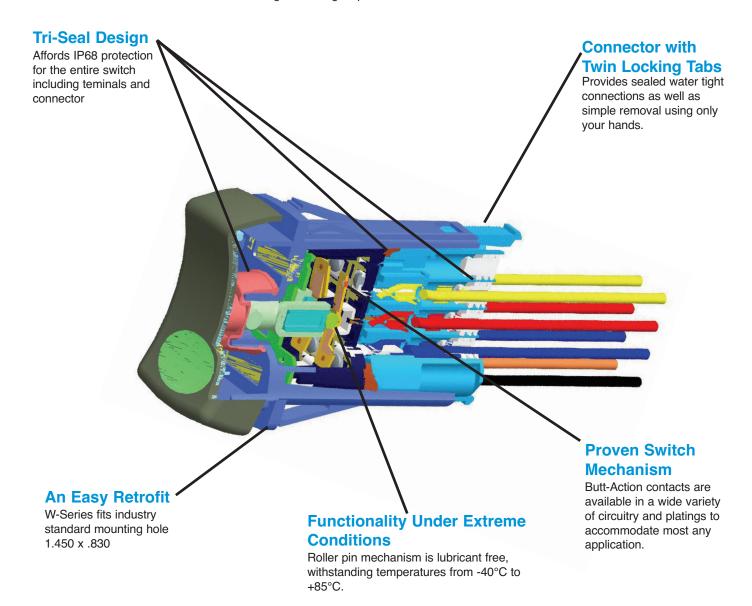


Looking for a rugged, fully sealed rocker switch?

Carling Technologies set the standard for performance, reliability and aesthetics with the widely successful, often imitated, but never duplicated, V-Series rocker switches. Building further upon that platform, Carling has once again raised the bar with the fully sealed W-Series. The W-Series traditional appearance features complete IP68 protection, even below the panel, where the critical connection is made from your wiring harness. When used in conjunction with the integrated connector, the totally submersible W-Series provides a seal for up to ten individual wires, assuring compatibility with even the most complex circuitry.

The W-Series also offers a wide variety of accoutrements including endless illumination options featuring dual level and multicolor LEDs, progressive and hazard warning circuits, ratings up tp 10A 24V, choice of paddle, rocker, locking or laser etched actuators, hundreds of standard legend choices and the electrical performance and reliability that is the hallmark of Carling Technologies products.



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Electrical

Contact Rating 4VA @ 24VDC

10 amps, 3-24VDC

Dielectric Strength 1500 Volts RMS Insulation Resistance . . . 50 Megaohms

Initial Contact Resistance 10 milliohms max. @ 4 VDC

Terminals Copper with silver or gold plating.

Quick Connect terminations.

Voltage 3-24 VDC

Overcurrent 15A for 50 cycles

Mechanical

Endurance 250,000 cycles minimum

Physical

Lighted LED - rated 100,000 hours 1/2 life

(LED is internally ballasted for volt-

ages to 24 VDC)

Seals Neoprene

Base Polyester blend rated to 125C with a

UL flammability rating of 94V0.

Actuator Basic actuator structure molded of

thermoplastic polycarbonate with a hard Nylon 66 thermoplastic surface

overlay.

Lens...... Polycarbonate rated at 100°C Function...... 2 & 3 Position Rocker Style

Actuator PA 6/6 13GF Bracket PBT 10GF

Connector PBT 10GF, polarized

Environmental

Environmental IP68, Fully sealed

Corrosion/

Chemical Splash. Flowing Mixed Gas (FMG)

Class III 3 year accelerated exposure per ASTM B-827, B-845

Operating Temperature . . -40°C to +85°C, 22 cycles, 300

hours

Vibration 1 Per Mil-Std 202F, Method 204D Test

Condition A 0.06 DA or 10G's 10-500

Hz.

Vibration 2 Resonance search

24-50 Hz 0.40 DA 50-2000 ±10 G's peak

Results Horizontal Axis 3-5 G's max.

Random

24 Hz 0.06 PSD-Gsq/Hz 60 Hz 0.50

100 Hz 0.50 200 Hz 0.025 2000 Hz 0.025

Handling/Drop One meter onto concrete floor

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

Condition A, 48 Hrs.

Dust IP6X

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

Condition A, -55°C to 85°C. Test criteria - pre and post test contact

resistance

Moisture Resistance/

Humidity Per Mil-Std 202F, Method 106F, Test

Criteria - pre and post test contact

resistance

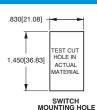
Actuator Travel (Angular Displacement)

24° full throw

Mounting Specifications

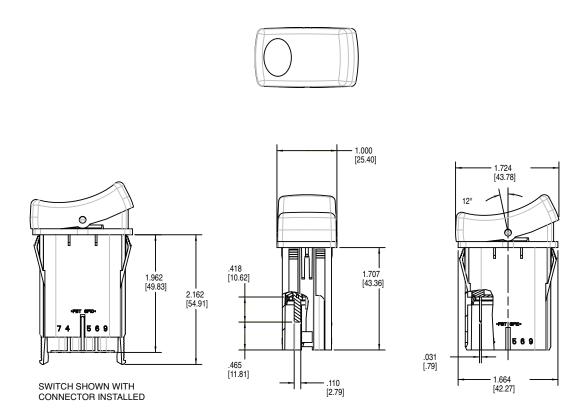
Panel Thickness Range .032 to .125

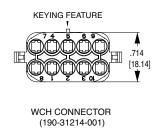
For optimum panel fit, the following panel thicknesses are suggested: .032, .062, .093, 1.450[36.83]

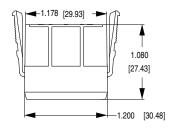


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Dimensional Specifications: in. [mm]







Notes:

WCH connector is intended for use with Tyco/Amp .110 Junior Power Timer, female contacts, and wire seals.

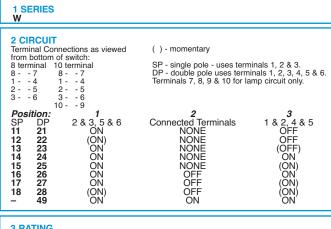
For 14-16 awg wire, specify Tyco/Amp P/N 927766-3

For 16-20 awg wire, specify Tyco/Amp P/N 927770-3

Tyco/Amp cable seal P/N 828904-1 (20-18 awg wire) or P/N 828905-1 (16-14 awg wire) is required for each individual wire lead, and Tyco/Amp cable plug, P/N 828922-1, is required to seal each unused connector opening. Consult Tyco/Amp for the cable seal recommended for your specific wire gauge and thickness.

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3 1	RATING			
D	10A 24V 10A 12V 10A 6V 10A 3V			

4 TERMINATION/BASE STYLE 2 .110 TAB (QC)

		& SWITCH SEALING hals 1 & 4 end of switch.; Lamp #2 above	e terminals 3 & 6 end of switch
·		ive (-) symbols apply to LED lamps only	
Code	<u>Lamps</u>	Actuator Lens position when Illuminated	Lamp wired to
0	None		Terminals
A	# 1	Independent	8+ 7-
B	# 1	Down	3+ 7-
C	# 2	Up	3+ 7-
Ď	# 1	Down	3+ 7-
	&# 2</td><td>Down</td><td>1+ 7-</td></tr><tr><th>E</th><th>#1</th><th>Up</th><th>1+ 7-</th></tr><tr><td></td><td></td><td>Up</td><td>3+ 7-</td></tr><tr><td>F</td><td># 1</td><td>Independent</td><td>8+ 7-</td></tr><tr><td></td><td>& # 2</td><td>Up</td><td>3+ 6-</td></tr><tr><th>G</th><th># 1</th><th>Independent</th><th>8+ 7-</th></tr><tr><td></td><td>& # 2</td><td>Up</td><td>3+ 7-</td></tr><tr><td>H Select J</td><td># 2 ions for Sino # 1</td><td>Independent gle Pole Switches Only: Down</td><td>8+ 7- 3+ 8-</td></tr><tr><th>K</th><th>% # 2</th><th>Independent</th><th>6+ 7-</th></tr><tr><td></td><td># 1</td><td>Independent</td><td>8+ 7-</td></tr><tr><th></th><th>& # 2</th><th>Independent ible Pole Switches Only:</th><th>6+ 7-</th></tr><tr><th>L</th><th># 1</th><th>Down</th><th>3+ 6-</th></tr><tr><td>M</td><td># 2</td><td>Up</td><td>3+ 6-</td></tr><tr><th>N P</th><th># 1 & # 2 # 1</th><th>Down Down</th><th>3+ 6- 1+ 4- 1+ 4-</th></tr><tr><th>R</th><th># 1 & # 2 # 1</th><th>Up Up Down</th><th>3+ 6- 3+ 7-</th></tr><tr><th>s</th><th>% # 2</th><th>Up</th><th>6+ 7-</th></tr><tr><td></td><td># 1</td><td>Down</td><td>6+ 7-</td></tr><tr><th>U</th><th>& # 2</th><th>Independent</th><th>8+ 7-</th></tr><tr><td></td><td># 1</td><td>Independent</td><td>8+ 7-</td></tr><tr><th>V</th><th>& # 2</th><th>Independent</th><th>10+ 9-</th></tr><tr><td></td><td># 2</td><td>Independent</td><td>10+ 9-</td></tr><tr><th>W</th><th># 1</th><th>Independent</th><th>8+ 7-</th></tr><tr><td></td><td>& # 2</td><td>Independent</td><td>10+ 7-</td></tr></tbody></table>		

Independent in Series Independent in Parallel

	•	ng for both s	,	e terminals 3 & 6
No lamp	0	,		
LED [*]			superbrio	aht
	Red	Amber	Green	White
2VDC	Α	L	F	4
6VDC	В	M	G	5
12VDC	С	N	Н	6
24VDC	D	P	J	8
* Consult fac	ctory for "dayli	ight bright" LED	options. Typ	ical current draw for LED is 20ma.

8 BRACKET COLOR¹ 9 ACTUATOR^{1,3} Black with Laser Etch

10 LENS - above lamp #1 terminals 1,4 11 LENS - above lamp #2 terminals 3,6 Lens color for LEDs must be clear, white, or match color of LED.						
0 - No Clear 1 - 3 - 5	Actuator White - 7 - 9 A	Amber B C D E	Z - No Green G H J K	Lens Red M N P R	Blue T U V W	Lens Style Transparent Large Translucent Large Transparent Bar Translucent Bar Laser Etch (Background Color)

00 - No Le 11 ON	egend thi					
OFF 15 O O F N		0 17 0 I	18 I O			
21 OFF	22 ON	23	24			
25 O F	26 O	27 O	28			
For additional legend options & codes, see pages 54-65 of this catalog						

121	EGEND ORIENTAT	ION	Orientation 1
0	No legend (used	d with codes 11-18 in sele	ction 12)
1	Orientation 1		
2	Orientation 2		
3	Orientation 3		Orientatio
4	Orientation 4		
	AY3-200	AY3-100	Orientation 3

14 ACTUATOR LENS LEGEND²

No legend this location/no actuator (used with codes 11-18 in selection 12) Selection 14 required when switch requires two legends. If the two legends consist of one lens & one body legend, lens legend must be specified in selection 12; body legend specified in selection 14. For legend options & codes, see pages 54-65 of this catalog.

NOTES

Y

Custom colors are available. Consult factory.

White imprinting is standard on black actuators; Black imprinting is standard on white, red & gray actuators; Custom colors are available, consult factory. Locking rocker version is also available, consult factory for details.

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Carling Technologies:

W21D20001-AZZ00-000 W24D20001-AZZ00-000 W14D20001-AZZ00-000 W16D2DHN1-A7700-000 W14D2DHN1-A7700-000 W26D2DHN1-A7700 W11D2GHN1-A7900-000 W26D20001-AZZ00-000 W12D2GHN1-A7900-000 W21D2GHN1-A7900 W22D20001-AZZ00-000 W11D20001-AZZ00-000 W22D2GHN1-A7900 W12D20001-AZZ00-000 W24D2DHN1-A7700 W16D20001-AZZ00-000