# V-Series CONTURA SWITCHES

Carling Technologies' sealed V-Series Contura switches are well known for their cutting edge design, high quality, maximum performance and unmatched reliability. These switches are a staple in the marine and transportation industries and have passed a range of environmental, corrosion, temperature, vibration, shock and sealing tests including MIL Std 202F, MIL Std 510.1, UL 1500, ISO 8846, IEC 60529 and BS 5490 among others, making them one of the most rugged and reliable switches ever manufactured.









### **Resources:**

Configure a Complete Part

Download CAD & Sales Drawing >

**Watch Product Video** 



### **Product Highlights:**

- Sealed to IP66/68 for Above-Panel Components
- Silver plated butt contact mechanism provides reliability up to and beyond 100K electrical cycles
- Greaseless construction withstands temperature extremes down to -40°C
- The switch accommodates up to 10 terminals and endless illumination and circuit options.
- The switch connector allows the user to preload FQC terminals for ease of assembly.
- Numerous choices of removable rockers allow for style change without having to retest or re-qualify the switch base.

### **Typical Applications:**

- · Marine Panels
- Emergency Vehicles
- Trucks
- Buses
- Construction Equipment
- · Motorcycles & ATVs
- · Farm Equipment
- Commercial Appliances
- Military Vehicles
- Mining Equipment
- Golf Carts
- · Floor Cleaning Equipment
- · Utility Vehicles



# **V-Series Switch**

# **DESIGN FEATURES**

### INTERCHANGEABLE ACTUATORS

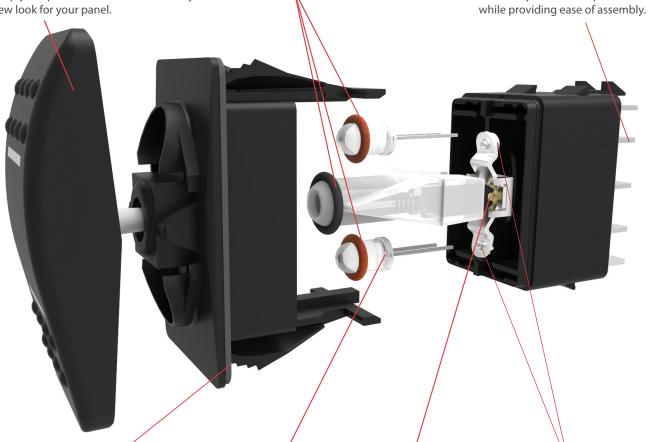
Panel redesign is a snap with our wide range of rocker styles. Achieve maximum design variety with minimum inventory. Simply swap rockers to create an entirely new look for your panel.

### **DUAL SEAL PROTECTION**

Seals out water, dust, debris, and sealed to IP66/68 for above-panel components

### **CLEAN CONNECTIONS**

Options for both eight and ten terminal base styles with AMP & Packard compatible connectors affords myriad circuit options



### **OPTIONAL PANEL SEAL**

Helps prevent water/dust ingress behind panel.

### **MULTIPLE LIGHTING OPTIONS**

In addition to Incandescent lamps, our LED illumination is offered in a wide array of light intensities, colors, as well as dual level, tri-color, and flashing options.

### **BRASS ROLLER PIN**

Robust mechanism eliminates the need for lubricants. Enables switch to withstand -40°C to +85°C temperatures.

### **SILVER PLATED BUTT CONTACT MECHANISM**

Providing 50k to 100k electrical cycles, circuit and load dependent



### Contura II & III

The Contura II & III actuators are constructed of thermoplastic polycarbonate and are offered with a hard nylon overlay or a "soft-touch" elastomer overlay. These models incorporate aesthetic designs on the top and bottom of the rocker featuring two rows of raised "bumps" on the Contura II and three "indented" lines on the Contura III.



### Contura X

The raised bracket/bezel on the Contura X helps prevent inadvertent actuation of the rocker, as well as preventing debris from being trapped under the actuator. This curved rocker style is available with a variety of lenses and legends.



### Contura IV

The Contura IV's "Shape to create a Shape" actuator works with the curves, contours & advanced styling of the latest panel designs, flowing with these advanced curves & radii. This actuator style fits on the Contura flush bracket/bezel.



### **Contura XI**

The raised bracket/bezel on the Contura XI helps prevent inadvertent actuation of the rocker, as well as preventing debris from being trapped under the actuator. This convex style rocker is available with a wide variety of lenses and legends.



### Contura V

The symmetrically curved Contura V actuator provides the perfect complement to the Contura IV's "Shape to create a Shape" design concept. With its flush style mounting bracket, Contura V can be mounted in between two Contura IV's, by itself, or in groups.



### Contura XII

The Contura XII version features a paddle style actuator with the raised bracket/bezel of Contura X and XI. The contoured handle design provides intuitive recognition and ease of operation and is available with all Contura X and XI lens and legend offerings.



### Contura VI (WAVE)

The Contura VI WAVE sealed rocker switches, when used in a row, create an uniquely appealing "wave" design on your panel. A variety of colors and finishes are available for both rocker and wave insert. Contura VI features bar and oval lenses.



### Contura XIV

The Contura XIV represents a sleek new crossover rocker design which should appeal to Trucks, Buses and Heavy Vehicles as well as the Marine Industry. Intuitive feel is provided by recessed ridges along with a Center Groove which effectively defines the boundary between top and bottom switch functions.



### Contura VII

Contura VII featuring gently curved corners and edges assuring compatibility with most any panel design. Intuitive feel is maximized by the use of 2 embossed circular pads located at opposite ends of the rocker. Any combination of Bar or Oval style lenses can be located in the pads providing a truly unique look, exclusive to Contura VII.



### **Illuminated Indicators** & Accessories

Alert operator of systems functions or malfunctions, are offered with removable/replaceable lamps in Contura II, II, V or X styles. Accessories include connectors, mounting panels, hole plugs, panel seals, and actuator removal tools. Refer to accessories page for full details

### **Electrical**

Contact Rating .4VA @ 24VDC (MAX) resistive

15 amps. 125VAC 10 amps. 250VAC 1/2 HP 125-250VAC 20 amps, 4-14VDC 15 amps, 15-28VDC

10A, 14VT 6A, 125VAC L 1500 Volts RMS

Dielectric Strength Insulation Resistance 50 Megohms Initial Contact Resistance 10 milliohms max. @ 4VDC

Life

Up to 100,000 cycles, circuit and load dependent

Contacts Silver alloy, silver tin-oxide, fine silver

**Terminals** Brass or copper/silver plate 1/4"

(6.3mm) Quick Connect

terminations standard. Solder lug,

Wire Lead

### **Physical**

Lighted Incandescent - rated 10.000

hours Neon - rated 25,000 hours LED - rated 100,000 hours 1/2 life (LED is internally ballasted for

voltages to 24VDC)

Internal Seals

Optional external gasket panel seal

Base Polyester blend rated to 125°C with

a UL flammability rating of 94V0. Hard Surface: Basic actuator Contura II, III, IV, V,

VI, VII Actuator structure molded of thermoplastic polycarbonate with a hard Nylon 66

thermoplastic surface overlay. Soft Surface: Basic actuator structure molded of thermoplastic polycarbonate

with an elastomer overlay.

Contura X,XI,XII Actuator,VP Nylon 66 Reinforced rated to 105°C

Polycarbonate rated at 100°C Lens Polycarbonate lens/sub-rocker with Contura XIV

ABS shell

### Actuator Travel (Angular Displacement)

2 position

3 positions 9° from center

### **Mounting Specifications**

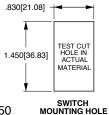
Panel Thickness Range

Gaskets Acceptable Panel Thickness .030 to .250 (.76 to 6.35mm) 0 1

.030 to .109 & .147 to .157 (.76 to 2.77mm & 3.73 to 3.98mm)

Recommended: No gasket with panel

thickness of .032, .062, .093, .125, .187 or .250



### **Agency Certifications**





### **Environmental**

Moisture Resistance

Sealing IP66/68, for above-panel components

of actual switch only.

Mixed Flowing Gas (MFG) Class III Corrosion 3 year accelerated exposure per

ASTM B-827, B-845 Silver and gold

contacts

-40°C to +85°C Operating Temp.

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

Test Condition A 0.06 DA or 10G's 10-500 Hz. Tested with VCH connector. Test criteria - No loss of circuit during

test, pre and post test contact

resistance.

Vibration 2 Resonance search

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

No loss of circuit during test; <10µ

seconds chatter.

Per Mil-Std 202F. Method 213B. Test Shock

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

test contact resistance.

Salt Spray Per Mil-Std 202F, Method 101D, Test Condition A, 96 Hrs. Sealed version only. Dust

Mil STD 810, Method 510.2 Air Velocity

300 Ft/Min Duration 16Hr

Per Mil-Std 202F, Method 107F, Test Thermal Shock Cond. A, -55°C to +85°C. Test criteria -

pre and post test contact resistance Per Mil-Std 202F, Method 106F, Test Criteria - pre and post test contact

resistance

**Ignition Protection** All Contura switches with sealed construction meet the requirements

of UL1500/ISO8846 for ignition protection, in addition to

conformance with EC directive 94/25/EC for marine products.

Email: sales@carlingtech.com Application Support: team2@carlingtech.com Phone: (860) 793–9281 Fax: (860) 793–9231 www.carlingtech.com



```
2 CIRCUIT
  Terminal Connections as viewed
                                                                               ( ) - momentary
                                                 SP - single pole - uses terminals 1, 2 & 3.
 from bottom of switch:
 8 terminal 10 terminal DP - double pole uses terminals 1, 2, 3, 4, 5 & 6. 8 - - 7 8 - - 7 Terminals 7, 8, 9 & 10 for lamp circuit only.
                            1 - - 4
                          2 - - 5
    2 - - 5
    3 - - 6
                         10 -
                                  - 9
                                                               2
Connected Terminals
NONE
NONE
 Position:
SP DP
                                   2 & 3, 5 & 6
ON
(ON)
                                                                                                                  1 & 2, 4 & 5
OFF
OFF
SP UP
1 A
2 B
3 C
4 D
5 F
6 J
7 K
8 L
SPECIAL CIRCUITS
H*
                                                                                                                       (OFF)
ON
                                                                              NONE
                                           ON
ON
ON
                                                                              NONE
                                                                                                                        (ON)
ON
                                                                                                                         (ON
                                  2 & 3
2 & 3, 5 & 6
2 & 3, 5 & 6
2 & 3, 5 & 6
(2 & 3, 5 & 6)
(2 & 3, 5 & 6)
5 & 6
                                                                         2 & 3, 5 & 4
2 & 3
2 & 3
2 & 3
2 & 3
2 & 3
5 & 3
                                                                                                                       5 & 4
OFF
1 & 2
OFF
2 & 1
5 & 1
 H*
G*
S*
M*
R*
E*
 *Jumper between terminals 2 & 5 for circuits H,G,M,R & S are specified in selection 4. External jumper between terminals 2 & 4 for circuit E are provided by customer. Circuit E may be used for SP OFF-ON-ON circuit.
```

# 3 RATING <sup>3</sup> .4VA @ 28VDC Resistive 15A 24V 20A 18V BCDEF 20A 12V 20A 14V, 10A 14VT (circuit 1, 4 , A & D only) 10A 14V, 6A 14VT (circuit G only) 4VA/20A 12V .4VA/20A 12V

### 4 TERMINATION / BASE STYLE

8 term	<u>10 Term</u>	<u>Termination</u>	<u>Jumper</u>					
1	2	.250 TAB (QC) no barriers	No					
Α	В	.250 TAB (QC) with barriers	No					
J	K	.250 TAB (QC) no barriers	Yes T2 to 5					
3	5	Solder Lug no barriers	No					
С	D	Solder Lug	No					
5	6	Wire Leads no barriers	No					
E	F	Wire Leads	No					
Note: C	odes J & K f	for circuits H, G & M. Do not use	silicone based					
lubricar	lubricants to reduce terminal insertion forces during connector assembly,							

as it is detrimental to function and performance. **5 ILLUMINATION** 

Lamp #1 3 & 6 en	Lamp #1:above terminals 1 & 4 end of switch.; Lamp #2 above terminals 3 & 6 end of switch. Positive (+) and negative (-) symbols apply to LED lamps only								
<u>Sealed</u>	<u>Unsealed</u>	Lamps NONE	Illumination Type	Lamp wired to Terminals					
S A B C D	1 2 3 4	1 1 2 1	INDEPENDENT DOWN UP DOWN DOWN	- (+) 7 (-) 3 (+) 7 (-) 3 (+) 7 (-) 3 (+) 7 (-) 1 (+) 7 (-)					
E	5	2	UP	1 (+) 7 (-)					
F	6	2 1 2 1	UP INDEPENDENT UP	3 (+) 7 (-) 8 (+) 7 (-) 3 (+) 6 (-)					
G	7	1	INDEPENDENT	8 (+) 7 (-)					
H U	Z Y	2 2 1 2	UP INDEPENDENT INDEPENDENT INDEPENDENT	3 (+) 7 (-) 8 (+) 7 (-) 8 (+) 7 (-) 10 (+) 9 (-)					
	POLE SW	ITCHES C		2 ( ) 2 ( )					
J	8	1	DOWN INDEPENDENT	3 (+) 8 (-) 6 (+) 7 (-)					
K	W	1 2	INDEPENDENT INDEPENDENT	8 (+) 7 (-) 6 (+) 7 (-)					
DOUBL	E POLE SV <b>9</b>	VITCHES	<i>ONLY</i> DOWN	3 (+) 6 (–)					
М	R	i	UP	3 (+) 6 (-) 3 (+) 6 (-)					
Ň	Ť	1	DOWN	3 (+) 6 (-)					
Р	V	2 1	DOWN UP	1 (+) 4 (–) 1 (+) 4 (–)					
		2	ŪР	3 (+) 6 (–)					

6,7 LAMP (SA Selection 6: at No lamp	ME CODING	FOR BOTH s 1 & 4; Sele	SELECTION ection 7: above	I <mark>S)</mark> e terminals :	3 & 6
Neon	1 125VAC	2 250VAC			
Incandescent	4 3V	<b>5</b> 6V	<b>6</b> 12V	<b>7</b> 18V	<b>8</b> 24V
LED*			superbright	superbrigh	nt
	Red	Amber	Green	Red	
2VDC	A	L	F	R	
6VDC	В	М	G	S	
12VDC	С	N	Ĥ	Ť	
24VDC	Ď	P	J	V	
* Consult facto LED is 20ma.	ory for "daylig	ht bright" LEI	D options. Typ	oical current	draw for

One Se	eai	C	Y	н				
9 ACTU 0 A, B C, D	No Co	OR Actuator Intura II Intura III				<i>N N</i>		
Actuato	ck end ove	als:	3,6	1,4				

Gray

8 FLUSH BRACKET COLOR 1, PANEL SEAL

White

Black

В

1 - 0	ENS No Actua ar White				Blue	0
1	6	8	G	M	T	
2	7	С	Н	N	U	
3	8	D	J	Р	V	
Squ	are lens	options of	only ava	ilable	for Contura II.	
4	9	E	K	R	W	
5	Α	F	L	S	Υ	<b>Ⅰ</b>
Len Gre	s color fo en or blu	r LEDs r e lenses	must be are not	clear, recon	white, or match mended with I	h color of LED. Neon lamps.

11 ACTUATOR C 0 - No Actuator	OLOR 1 A	ND TEXTU	RE		
Soft Surface Hard Surface	Black B C	Gray <b>G</b> H	Red R S	White <b>W</b> <b>Y</b>	



13 LEGEND ORIENTA  0 No legend (used 1 Orientation 1 2 Orientation 2 3 Orientation 3 4 Orientation 4		I1-18 in select	tion 12)	
* Harris	1	2	3	4

14 ACTUATOR LENS LEGEND

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 and one
body legend, lens legend must be specified in selection 12; body legend
specified in selection 14.
For legend options & codes, visit us at www.carlingtech.com.

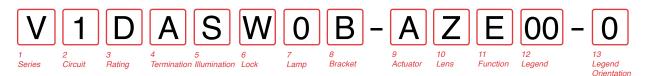
Consult factory to verify horsepower rating for your particular circuit choice.

Custom colors are available. Consult factory.

Body legends not available on Soft surface actuators; White imprinting is standard on black actuators; Black imprinting is standard on white, red and gray actuators. Custom colors are available, consult factory.

Additional ratings available. See V-Series Switch Accessories page.

Contura II available with two square lenses. Consult factory for details.



```
2 CIRCUIT
Terminal Connections as viewed
                                                          ( ) - momentary
                                   SP - single pole - uses terminals 1, 2 & 3.
DP - double pole uses terminals 1, 2, 3, 4, 5 & 6.
from bottom of switch:
8 terminal 10 terminal
                  8 - - 7
1 - - 4
                                    Terminals 7, 8, 9 & 10 for lamp circuit only.
  8 - - 7
  2 - - 5
                  2 - - 5
  3 - - 6
                   3 - - 6
                 10 -
                        - 9
Position:
                                             Connected Terminals 1 & 2, 4 & 5
NONE
OFF
                         2 & 3, 5 & 6
ON
       DF
                                                        NONE
                                                                                   ON
ON
(ON)
                               ON
                               ON
ON
                                                         OFF
       K
                                                                                   (ON)
                                                        NONE
ŠPEČIAL CIRCUITS
H*
G* 2 8
S* 2 8
                        2 & 3
2 & 3, 5 & 6
2 & 3, 5 & 6
(2 & 3, 5 & 6)
(2 & 3, 5 & 6)
                                                                                  5 & 4
OFF
1 & 2
OFF
2 & 1
5 & 1
                                                    2 & 3, 5 & 4
                                                         2 & 3
2 & 3
2 & 3
2 & 3
5 & 3
                              5 & 6
```

\*Jumper between terminals 2 & 5 for circuits H,G,M,R & S are specified in selection 4. External jumper between terminals 2 & 4 for circuit E are provided by customer. Circuit E may be used for SP OFF-ON-ON circuit.

### 3 RATING <sup>4</sup> .4VA @ 28VDC Resistive 15A 24V 20A 18V 20A 14V, 10A 14VT (circuit 1, 4, A & D only) 10A 14V, 6A 14VT (circuit G only) .4VA/20A 12V .4VA/15A 24V

### 4 TERMINATION / 8 term 10 Term 1 2 **BASE STYLE** Termination 250 TAB (QC) no barriers 250 TAB (QC) with barriers 250 TAB (QC) no barriers <u>Jumper</u> Yes T2 to 5 K Solder Lug no barriers Solder Lug Wire Leads no barriers No 3 C 5 D Wire Leads No Note: Codes J & K for circuits H, G & M. Do not use silicone based

lubricants to reduce terminal insertion forces during connector assembly, as it is detrimental to function and performance.

### 5 ILLUMINATION & SWITCH SEALING Lamp #1:above terminals 1 & 4 end of switch.; Lamp #2 above terminals 3 & 6 end of switch. Positive (+) and negative (-) symbols apply to LED lamps only Sealed Unsealed Lamps NONE Illumination Type Lamp wired to Terminals INDEPENDENT DOUBLE POLE SWITCHES ONLY M R 1 UP 3 (+) 6 (-)

### 6 LOCK Lock above terminals 1 & 4 end of switch

Consult factory to verify horsepower rating for your particular circuit choice.

Custom colors are available. Consult factory.

White imprinting is standard on black actuators; Black imprinting is standard on white, red and gray actuators. Custom colors are available, consult factory.

Only available with 3 position circuits. Center OFF and special circuits only available with center position lock function.

Additional ratings available. See V-Series Switch Accessories page

7 LAMP Lamp above to No lamp	0		ch	
Neon ·	<b>1</b> 125VAC	<b>2</b> 250VAC		
Incandescent	4 3V	5 6V	6 12V	7 18V 8 24V
LED*			superbright	superbright
	Red	Amber	Green	Red
2VDC	A	L	F	R
6VDC	B	M	Ġ	ä
12VDC	č	Ň	Ĥ	Ť
24VDC	Ď	P	ii .	v
	ry for "daylig	nt hriaht" I Fl	Ontions Tyn	ical current draw for
LED is 20ma.	., .c. dayiigi	Sg.ii LLi	- cpc/10. 13p	Jan. J diam ioi

One Seal	č	Ÿ	Ĥ						
9 HARD SURFACE ACTUATOR 1									
Contura II	Black <b>A</b>	Gray <b>B</b>	Red <b>G</b>	White <b>H</b>					
Contura III	С	D	E	F					
Actuator orie	Actuator orientation above terminals: 3,6 1,4								

Gray

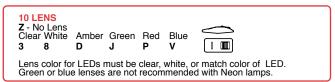
8 FLUSH BRACKET COLOR 1, PANEL SEAL

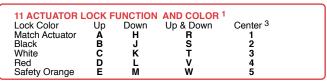
Black

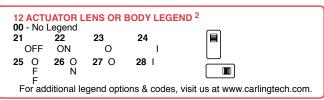
В

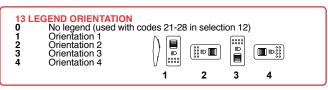
No Seal

White











### Terminal Connections as viewed ( ) - momentary from bottom of switch: SP - single pole - uses terminals 1, 2 & 3. **8 terminal 10 terminal** DP - double pole uses terminals 1, 2, 3, 4, 5 & 6. Terminals 7, 8, 9 & 10 for lamp circuit only. 8 - - 7 8 - - 7 1 - - 4 2 - - 5 2 - - 5 3 - - 6 3 - - 6 10 -- 9 Position: SP DP 3 1 & 2, 4 & 5 OFF OFF 2 & 3, 5 & 6 ON (ON) ON Connected Terminals NONE NONE 12345678 A B C ON ON ON ON (ON) Þ ON (ON) NONE OFF OFF OFF 8 PECIAL CIRCUITS H\* G\* 2 8 S\* 28 M\* (2 8 R\* (2 8 2 & 3 2 & 3. 5 & 4 2 & 3 2 & 3, 5 & 6 2 & 3, 5 & 6 (2 & 3, 5 & 6) (2 & 3, 5 & 6) 2 & 3 2 & 3 2 & 3 2 & 3 5 & 6 5 & 3 $^*$ Jumper between terminals 2 & 5 for circuits H,G,M,R & S are specified in selection 4. External jumper between terminals 2 & 4 for circuit E are provided by customer. Circuit E may be used for SP OFF-ON-ON circuit.

```
3 RATING <sup>4</sup>
1 .4VA @ 28VDC Resistive
B 15A 24V
C 20A 18V
D 20A 12V
BCDEFMN
          20A 14V, 10A 14VT (circuit 1, 4 , A & D only)
10A 14V, 6A 14VT (circuit G only)
.4VA/20A 12V
          .4VA/15A 24V
```

4 TERMINATION	/ BASE STYLE	
8 term 10 Term	Termination	Jumper
1 2	.250 TAB (QC) no barriers	No
А В	.250 TAB (QC) with barriers	No
J K	.250 TAB (QC) no barriers	Yes T2 to 5
3 5	Solder Lug no barriers	No
C D	Solder Lug	No
5 6 E F	Wire Leads no barriers	No
E F	Wire Leads	No
Note: Codes J & F	C for circuits H. G & M. Do not us	e silicone based

lubricants to reduce terminal insertion forces during connector assembly, as it is detrimental to function and performance.

Lamp # <sup>*</sup> 3 & 6 er	1:above ter nd of switch	& SWITCH minals 1 & Positive	H SEALING & 4 end of switch.; L (+) and negative (-)	amp #2 above terminals symbols apply to LED
lamps o <u>Sealed</u>	Unsealed 0 1 2 3 4	Lamps	Illumination Type	Lamp wired to Terminals
S	0	NONE	- INDEPENDENT	-
B	2	i	DOWN	8 (+) 7 (-) 3 (+) 7 (-) 3 (+) 7 (-)
Ċ	3	2	UP	3 (+) 7 (-)
D	4	1	DOWN DOWN	3 (+) 7 (-) 1 (+) 7 (-)
E	5	1	UP	1 (+) / (-) 1 (+) 7 (-)
_	_	2	UP	
F	6	2 1 2 1 2 1 2 2	INDEPENDENT UP	3 (+) 7 (-) 8 (+) 7 (-) 3 (+) 6 (-) 8 (+) 7 (-) 3 (+) 7 (-) 8 (+) 7 (-)
G	7	1	INDEPENDENT	3 (+) 6 (-) 8 (+) 7 (-)
	•	ż	ÜP	3 (+) 7 (-)
H	Z Y	2	INDEPENDENT	
U	Y	2	INDEPENDENT INDEPENDENT	8 (+) 7 (–) 10 (+) 9 (–)
SINGLE	POLE SW		ONLY	10 (1) 0 ( )
J	8	1	DOWN	3 (+) 8 (-)
к	w	2	INDEPENDENT INDEPENDENT	6 (+) 7 (-) 8 (+) 7 (-)
, N	**	2	INDEPENDENT	6 (+) 7 (-)
DOUBL	E POLE SI	NITCHES		- ( ) ( )
M	9 R	1	DOWN UP	3 (+) 6 (-) 3 (+) 6 (-)
N N	Ť	i	DOWN	3 (+) 6 (-) 3 (+) 6 (-)
		2 1	DOWN	1 (+) 4 (-)
P	V	1 2	UP UP	1 (+) 4 (-) 3 (+) 6 (-)
		2	UP	3 (+) 6 (–)

6,7 LAMP (SAME CODING FOR BOTH SELECTIONS) Selection 6: above terminals 1 & 4; Selection 7: above terminals 3 & 6 No lamp 0							
Neon	1 125VAC	2 250VA	?				
Incandescent	4 3V	5 6V	<b>6</b> 12V	<b>7</b> 18V	8 24V		
I FD*		• • •	superbright	superbright			
	Red	Amber	Green	Red			
2VDC	A	L	F	R			
6VDC	В	М	G	S			
12VDC	С	N	Ĥ	Ť			
24VDC	D	Р	J۷				
* Consult facto	ry for "dayligl	ht bright" L	ED options. Ty	pical current	draw for		
LED is 20ma.		_					

Orientation

Lens Legend

One Sear C T n	
9 ACTUATOR 0 No Actuator E Contura IV, left orientation T Contura IV, left orientation, laser etched F Contura IV, right orientation R Contura IV, right orientation, laser etched Actuator orientation over terminals:	1,4 () () () 3,6

Gray

8 FLUSH BRACKET COLOR 1, PANEL SEAL

White **W** 

Black

В

No Seal

10 LENS 0 - No Actuator Clear White Amber 1 6 8 2 7 C 3 8 D 4 9 E 5 A F Lens color for LEDs r Green or blue lenses	G M H N J P K R L S	Blue T U V W Y white, or	©0 00 00 00 00 er or match color of LED. I with Neon lamps.
--------------------------------------------------------------------------------------------------------------------	---------------------	--------------------------------------------	----------------------------------------------------------------------------------

11 ACTUAT	OR COL	OR 1,5,0	6				
No Actuator	0	Black		Gray	Н	Red	S
White	Υ	Nickel	D	Pewter	E		



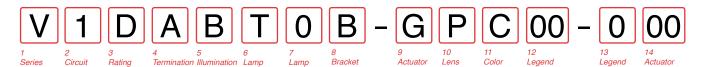


14 ACTUATOR LENS LEGEND
00 No legend this location / no actuator
(used with codes 11-18 in selection 12) Selection 14 required when switch requires two legends. If the two legends consist of one lens and one body legend, lens legend must be specified in selection 12; body legend specified in selection 14.
For legend options & codes, visit us at www.carlingtech.com.

- Consult factory to verify horsepower rating for your particular circuit choice.

  Custom colors are available. Consult factory.

  White imprinting is standard on black actuators; Black imprinting is standard on white,
- red and gray actuators. Custom colors are available, consult factory. Gloss brow is on left side of E actuator and right side of F actuator. Additional ratings available. See V-Series Switch Accessories page.
- Laser etched rocker only available with lens code Z & actuator colors black, nickel or pewter.
- Pewter and nickel colors only available with laser etched actuator.



```
2 CIRCUIT
 Terminal Connections as viewed
                                         viewed ( ) - momentary SP - single pole - uses terminals 1, 2 & 3.
 from bottom of switch:
 8 terminal 10 terminal
                                         DP - double pole uses terminals 1, 2, 3, 4, 5 & 6.
                       8 -
                                           Terminals 7, 8, 9 & 10 for lamp circuit only.
                       1 - - 4
                      2 - - 5
3 - - 6
   2 - - 5
   3 - - 6
                     10 -
                             - 9
                              1
2 & 3, 5 & 6
ON
(ON)
                                                   2
Connected Terminals
NONE
NONE
                                                                                             3
1 & 2, 4 & 5
OFF
OFF
 Position:
SP DP
 34
         BCDF
                                                                                                   (OFF)
5 F
6 J
7 K
8 L
SPECIAL CIRCUITS
                                                                 NONE
OFF
OFF
                                                                                                    (ON)
ON
                                     ON
ON
                                                                                                    (ON)
                             2 & 3
2 & 3, 5 & 6
2 & 3, 5 & 6
(2 & 3, 5 & 6)
(2 & 3, 5 & 6)
5 & 6
                                                             2 & 3, 5 & 4
                                                                                                   5 & 4
OFF
1 & 2
OFF
                                                                  2 & 3
2 & 3
2 & 3
                                                                  2 & 3
5 & 3
^*Jumper between terminals 2 & 5 for circuits H,G,M,R & S are specified in selection 4. External jumper between terminals 2 & 4 for circuit E are provided by customer. Circuit E may be used for SP OFF-ON-ON circuit.
```

3 RATING <sup>4</sup>
1 .4VA @ 28VDC Resistive .4VA @ 28VDC Resistive 15A 24V 20A 18V 20A 12V 20A 14V, 10A 14VT (circuit 1, 4, A & D only) 10A 14V, 6A 14VT (circuit G only) .4VA/20A 12V BCDEFMN

.4VA/15A 24V

4 TERMINATION / BASE STYLE EASE STYLE
Termination
.250 TAB (QC) no barriers
.250 TAB (QC) with barriers
.250 TAB (QC) no barriers
Solder Lug no barriers
Solder Lug 8 term 10 Term <u>Jumper</u> No AJ3C5E Yes T2 to 5 No No No No Wire Leads no barriers Wire Leads Note: Codes J & K for circuits H, G & M. Do not use silicone based

lubricants to reduce terminal insertion forces during connector assembly, as it is detrimental to function and performance. 5 ILLUMINATION & SWITCH SEALING

lamne c	nniv	minals 1 & n. Positive (	4 end of switch.; La (+) and negative (-)	amp #2 above terminals symbols apply to LED
Sealed	Unsealed 0 1 2 3 4	Lamps	Illumination Type	Lamp wired to Terminals
A	1	NONE 1	- INDEPENDENT	- 8 (+) 7 (–)
В	2	1	DOWN	3 (+) 7 (-)
D	3 4	2	UP DOWN	3 (+) 7 (-) 3 (+) 7 (-) 3 (+) 7 (-)
		ż	DOWN	1 (+) 7 (-)
E	5	2 1 2 1 2 1 2	UP UP	1 (+) 7 (-) 3 (+) 7 (-)
F	6	1	INDEPENDENT	3 (+) 7 (-) 8 (+) 7 (-) 3 (+) 6 (-) 8 (+) 7 (-) 3 (+) 7 (-) 8 (+) 7 (-)
	-	2	UP	3 (+) 6 (-)
G	1	2	INDEPENDENT UP	8 (+) 7 (–) 3 (+) 7 (–)
H	Z Y	2 2 1	INDEPENDENT	8 (+) 7 (-)
U	Y	1	INDEPENDENT INDEPENDENT	8 (+) 7 (–) 10 (+) 9 (–)
SINGLI	E POLE SV	VITCHES C	DNLY	10 (+) 3 (-)
J	8	1	DOWN INDEPENDENT	3 (+) 8 (-)
К	w	1	INDEPENDENT	6 (+) 7 (-) 8 (+) 7 (-)
		2	INDEPENDENT	6 (+) 7 (-)
DOUBL	.E POLE SI	WITCHES	ONLY DOWN	3 (+) 6 (-)
М	Ř	i	UP	3 (+) 6 (-) 3 (+) 6 (-) 3 (+) 6 (-)
N	Т	1	DOWN	
Р	V	2 1	DOWN UP	1 (+) 4 (-) 1 (+) 4 (-)
·	•	2	ŬP	3 (+) 6 (-)

ME CODING ove terminals	FOR BOTH s 1 & 4; Sele	SELECTION ction 7: above	I <mark>S)</mark> e terminals	3 & 6
0 1 125VAC 4 3V	2 250VAC	<b>6</b> 12\/	<b>7</b> 18V	<b>8</b> 24V
Red	Amber	superbright Green	superbrig Red	
A B	L M	F G	R S T	
<b>D</b> ry for "dayligh	P nt bright" LEI	<b>່ງ</b> D options. Typ	v pical curren	t draw for
	0 1 125VAC 4 3V Red A B C	0 1 125VAC 2 250VAC 4 3V 5 6V Red Amber A L B M C N D P	0 1 125VAC 2 250VAC 4 3V 5 6V 6 12V superbright Green F B M G C N H H D P J	4 3V 5 6V 6 12V 7 18V superbright superbright Amber F Red L F Red Red

Orientation Lens Legend

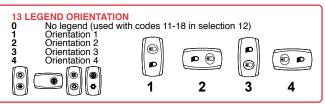
Black White Gray No Seal B W G One Seal C Y H	8 FLUSH BRACKET COLOR 1, PANEL SEAL						
	N. O. d		White	Gray			
One Seal C Y H		_	vv	G			
	One Seal	С	Υ	Н			

### 9 ACTUATOR No Actuator Contura V Contura V, laser etched

1 - 0	<mark>-ens</mark> No Actua ar White		<b>Z</b> - No Green		Blue	style & location: #1 / #2	
1	6	8	G	M	Т		
2	7	С	Н	N	U		
3	8	D	J	Р	V		
4	9	E	K	R	W	$lue{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{ol}}}}}}}}}}}}}}$	
5	Α	F	L	S	Υ	••	
Lens color for LEDs must be clear, white, or match color of LED. Green or blue lenses are not recommended with Neon lamps.							

11 ACTUATO	OR COL	OR <sup>1,3,5</sup>	5				
No Actuator White	0 Y	Black Nickel	C D	Gray Pewter	H	Red	S





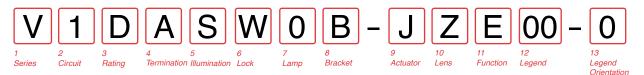
14 ACTUATOR LENS LEGEND
00 No legend this location / no actuator
(used with codes 11-18 in selection 12) Selection 14 required when switch
requires two legends. If the two legends consist of one lens and one
body legend, lens legend must be specified in selection 12; body legend
specified in selection 14.
For legend options & codes, visit us at www.carlingtech.com.

Consult factory to verify horsepower rating for your particular circuit choice.

1 Custom colors are available. Consult factory.

- White imprinting is standard on black actuators; Black imprinting is standard on white, red and gray actuators. Custom colors are available, consult factory. Laser Etched rocker only available with lens code Z & actuator colors black,
- 3
- nickel or pewter.

  Additional ratings available. See V-Series Switch Accessories page. Nickel and Pewter colors only available with laser etched actuator
- Consult factory for laser etched lens callout.



```
2 CIRCUIT 3
Terminal Connections as viewed
                                                             ( ) - momentary
                                     SP - single pole - uses terminals 1, 2 & 3.
DP - double pole uses terminals 1, 2, 3, 4, 5 & 6.
Terminals 7, 8, 9 & 10 for lamp circuit only.
from bottom of switch:
8 terminal 10 terminal
 8 - - 7
1 - - 4
                    8 - - 7
1 - - 4
  2 - - 5
                    2 - - 5
  3 - - 6
                    3 - - 6
                  10 -
                          - 9
Position:
                                                                                   3
1 & 2, 4 & 5
OFF
ON
ON
(ON)
(ON)
                          2 & 3, 5 & 6
ON
ON
                                              Connected Terminals
NONE
NONE
SP DP
     A
                                                             OFF
OFF
OFF
6
7
8
9
     J
K
L
N
                                                           NONE
```

### 3 RATING 4 .4VA @ 28VDC Resistive 15A 24V 20A 18V BCDEFMN 20A 12V 20A 14V, 10A 14VT (circuit 1, 4, A & D only) 10A 14V, 6A 14VT (circuit G only) .4VA/20A 12V .4VA/15A 24V

### 4 TERMINATION / BASE STYLE

8 term	10 Te		<u>Jumper</u>
1	2	.250 TAB (QC) no barriers	No ·
Α	В	.250 TAB (QC) with barriers	No
J	Κ	.250 TAB (QC) no barriers	Yes T2 to 5
3 C	5	Solder Lug no barriers	No
С	D	Solder Luğ	No
5	6	Wire Leads no barriers	No
E	F	Wire Leads	No
Noto: C	20hoc	LO K for circuita H. C. O.M. Do not us	a ailiaana baaad

Note: Codes J & K for circuits H, G & M. Do not use silicone based lubricants to reduce terminal insertion forces during connector assembly, as it is detrimental to function and performance.

5 ILLUMINATION & SWITCH SEALING Lamp #1:above terminals 1 & 4 end of switch.; Lamp #2 above terminals 3 & 6 end of switch. Positive (+) and negative (-) symbols apply to LED lamps only

Sealed	Unsealed	Lamps	Illumination Type	Lamp wired to Terminals
S	0	NONE	_	
С	3	2	UP	3 (+) 7 (-)
Н	Z	2	INDEPENDENT	8 (+) 7 (–)
DOUBL	E POLE SI	<b>NITCHES</b>	ONLY	- ( ) ( )
M	R	1	ÜP	3 (+) 6 (-)
				., .,

### 6 LOCK

Lock a	above terminals 1 &		
W	low profile lock	γ6	high profile lock

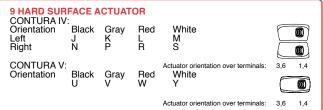
Notes: Consult factory to verify horsepower rating for your particular circuit choice.

- Custom colors are available. Consult factory.

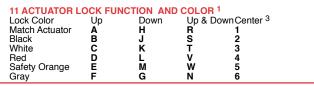
  White imprinting is standard on black actuators; Black imprinting is standard on white, red and gray actuators. Custom colors are available, consult factory
- Only available with 3 position circuits. Center OFF and special circuits only available with center position lock function.
- Additional ratings available. See V-Series Switch Accessories page. Located at T3-6 end of switch.
- Contura V style only.

7 LAMP Lamp above to No lamp Neon Incandescent LED* 2VDC 6VDC 12VDC 24VDC	0 1 125VAC 4 3V Red A B C	2 250VAC 5 6V Amber L M N	6 12V superbright Green F G	7 18V 8 24V superbright Red R S T V
24VDC	D	P	J Dantiana Tim	V
LED is 20ma.	ry ior dayligi	it bright LEI	D options. Typ	ical current draw for

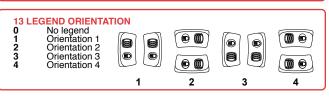
8 FLUSH E	RACKET	COLOR 1	, PANEL SEAL	
No Seal One Seal	Black B C	White W Y	Gray <b>G</b> <b>H</b>	



### 10 LENS 5 **Z** - No Lens Clear White Amber Green Red Blue Α В С D Ε bar lens М κ oval lens Lens color for LEDs must be clear, white, or match color of LED. Green or blue lenses are not recommended with Neon lamps.







Lamp

Bracket

1 & 2 OFF

2 & 1 5 & 1



Actuator

Lens

Lens

Color

1 SERIES

Circuit

Ratina

2 CIRCUIT ( ) - momentary Terminal Connections as viewed SP - single pole - uses terminals 1, 2 & 3. from bottom of switch: 8 - -7 8 - -7 Terminals 7, 2, 3, 4, 5 & 6. 8 - - 7 1 - - 4 1 - - 4 2 - - 5 2 - - 5 3 - - 6 3 - - 6 10 - - 9 1 2 2 & 3, 5 & 6 Connected Terminals ON NONE (ON) NONE 3 1 & 2, 4 & 5 OFF OFF Position: SP DP ABCDFJK 3 4 5 6 7 8 ON ON ON (ON) SPECIAL CIRCUITS 2 & 3 2 & 3, 5 & 6 2 & 3, 5 & 6 (2 & 3, 5 & 6) (2 & 3, 5 & 6) 2 & 3, 5 & 4 2 & 3 2 & 3 2 & 3 2 & 3 2 & 3 H\* G\* S\* M\* R\* E\* 5 & 4 OFF

Termination Illumination Lamp

\*Jumper between terminals 2 & 5 for circuits H,G,M,R & S are specified in selection 4. External jumper between terminals 2 & 4 for circuit E are provided by customer. Circuit E may be used for SP OFF-ON-ON circuit.

5 & 3

3 RATING 3 1 .4VA @ 28VDC Resistive B 15A 24V 20A 18V 20A 12V CDEF 20A 14V, 10A 14VT (circuit 1, 4 , A & D only) 10A 14V, 6A 14VT (circuit G only) .4VA/20A 12V

5 & 6

4 TERMINATION / **BASE STYLE** Termination
.250 TAB (QC) no barriers
.250 TAB (QC) with barriers
.250 TAB (QC) no barriers 8 term 10 Term <u>Jumper</u> No No ) 3 C K 5 D Yes T2 to 5 Solder Lug no barriers No Solder Lug Wire Leads no barriers Wire Leads Nο No

Note: Codes J & K for circuits H, G & M. Do not use silicone based lubricants to reduce terminal insertion forces during connector assembly, as it is detrimental to function and performance.

5 ILLUMINATION & SWITCH SEALING Lamp #1:above terminals 1 & 4 end of switch.; Lamp #2 above terminals 3 & 6 end of switch. Positive (+) and negative (-) symbols apply to LED Sealed Unsealed Lamps NONE Illumination Type Lamp wired to Terminals INDEPENDENT 8 (+) 7 ABCD 3 (+) 7 3 (+) 7 3 (+) 7 1 (+) 7 1 (+) 7 3 (+) 7 DOWN UP DOWN 2 3 4 DOWN UP UP Ε 5 8 (+) 7 3 (+) 6 8 (+) 7 3 (+) 7 8 (+) 7 8 (+) 7 F 6 INDEPENDENT G 7 INDEPENDENT INDEPENDENT INDEPENDENT INDEPENDENT SINGLE POLE SWITCHES ONLY DOWN INDEPENDENT INDEPENDENT INDEPENDENT W DOUBLE POLE SWITCHES ONLY
L 9 1 DOWN
M R 1 UP M (+) 6 (+) 6 (+) 4 (+) 4 R DOWN N P ٧ UP

6.7 LAMP Lamp above terminals 3 & 6 end of switch No lamp 2 250VAC 5 6V Neon Incandescent 6 12V 7 18V superbright Red superbright Green **F** LED' Red Amber 2VDC R S T 6VDC 12VDC М Ġ Ν 24VDC consult factory for "daylight bright" LED options. Typical current draw for

Actuator

Legend

Actuator Orientation Lens Legend

Insert

8 FLUSH BRACKET COLOR 1, PANEL SEAL Black White Gray W Y No Seal G One Seal

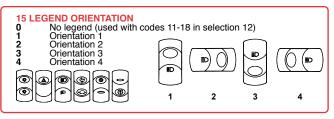
9 ACTUATOR **②** 0 No Actuator H High Insert L Low Insert

10,11 LENS 0 - No Actuator Z - No Lens White Amber Green Red Clear Blue С Н Ν U Bar Lens Translucent 3 D Ρ Bar Lens Transparent R 4 Ε K Oval Lens Transparent L s Oval Lens Translucent Lens color for LEDs must be clear, white, or match color of LED. Green or blue lenses are not recommended with Neon lamps.

12 ACTUATOR COLOR H Gray Y White Black S Red

13 INSERT COLOR Bright Nickel Plated Satin Chrome Plated Black Bright Chrome Plated Satin Nickel Plated Satin Chrome Painted w White

4 ACTUATOR LENS OR BODY LEGENDS 2 00 - No Legend this location/No actuator 11 ON 12 OFF 13 I 14 0 OFF ON 0 00 1600 17 01 18 1 0 FNNF For additional legend options & codes, visit us at www.carlingtech.com.



16 ACTUATOR LENS LEGEND

10 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 and one body legend, lens legend must be specified in selection 12; body legend specified in selection 14.

For legend options & codes, visit us at www.carlingtech.com.

### Notes

Consult factory to verify horsepower rating for your particular circuit choice.

Custom colors are available. Consult factory.
White imprinting is standard on black actuators. Black imprinting is standard on white, red and gray actuators. Custom colors are available, consult factory.
Additional ratings available. See V-Series Switch Accessories page.



```
Terminal Connections as viewed
                                                                   ( ) - momentary
from bottom of switch: SP - single pole - uses terminals 1, 2 & 3.

8 terminal 10 terminal DP - double pole uses terminals 1, 2, 3, 4, 5 & 6.
   8 - - 7
                      8 - - 7
                                          Terminals 7, 8, 9 & 10 for lamp circuit only.
   2 - - 5
                      2 - - 5
   3 - - 6
                      3 - - 6
                     10 - - 9
                                                   2
Connected Terminals
NONE
NONE
NONE
                                                                                             3
1 & 2, 4 & 5
OFF
OFF
 Position:
                          2 & 3, 5 & 6
ON
(ON)
ON
1 A ON

2 B (ON)

3 C ON

4 D ON

5 F ON

6 J ON

7 K ON

8 L (ON)

SPECIAL CIRCUITS

H* 2 & 3

G* 2 & 3.5 &
                                                                NONE
                                                                                                    ON
                                                                                                   (ON)
ON
                                                                 OFF
OFF
                                                                                                    (ON)
                                                                 OFF
                                                                                                   5 & 4
                                                            2 & 3, 5 & 4
                         2 & 3
2 & 3, 5 & 6
2 & 3, 5 & 6
(2 & 3, 5 & 6)
(2 & 3, 5 & 6)
5 & 6
                                                                2 & 3
2 & 3
                                                                                                   OFF
1 & 2
                                                                 2 & 3
2 & 3
5 & 3
 *Jumper between terminals 2 & 5 for circuits H,G,M,R & S are specified in
selection 4. External jumper between terminals 2 & 4 for circuit E are provided by customer. Circuit E may be used for SP OFF-ON-ON circuit.
```

```
ATING *
.4VA @ 28VDC Resistive
15A 24V
20A 18V
20A 12V
20A 14V, 10A 14VT (circuit 1, 4, A & D only)
10A 14V, 6A 14VT (circuit G only)
.4VA/20A 12V
```

as it is detrimental to function and performance.

	/ BASE STYLE	
8 term 10 Term	<u>Termination</u>	<u>Jumper</u>
1 2	.250 TAB (QC) no barriers	No
А В	.250 TAB (QC) with barriers	No
J K	.250 TAB (QC) no barriers	Yes T2 to 5
J K 3 5	.250 TAB (QC) no barriers Solder Lug no barriers	No
C D	Solder Lug	No
5 6 E F	Wire Leads no barriers	No
ĖĖ	Wire Leads	No
Note: Codes J & F	K for circuits H, G & M. Do not us	se silicone based
lubricants to reduc	ce terminal insertion forces durin	g connector assembly,

5 ILLUMINATION & SWITCH SEALING Lamp #1:above terminals 1 & 4 end of switch.; Lamp #2 above terminals

3 & 6 end of switch. Positive (+) and negative (-) symbols apply to LED lamps only						
Sealed	Unsealed		Illumination Type	Lamp wired to Terminals		
A B C D	0 1 2 3 4	NONE 1 1 2 1	INDEPENDENT DOWN UP DOWN DOWN			
E	5	1	UP	1 (+) 7 (-)		
F	6	2 1 2 1 2 1 2 1	UP INDEPENDENT UP	3 (+) 7 (-) 8 (+) 7 (-) 3 (+) 6 (-)		
G	7	1	INDEPENDENT UP	3 (+) 6 (-) 8 (+) 7 (-) 3 (+) 7 (-)		
H	Z Y	2	INDEPENDENT INDEPENDENT INDEPENDENT	8 (+) 7 (-) 8 (+) 7 (-) 10 (+) 9 (-)		
	E POLE SV	VITCHES (		2 ( ) 2 ( )		
J	8	1	DOWN	3 (+) 8 (-) 6 (+) 7 (-)		
K	W	1 2	INDEPENDENT INDEPENDENT INDEPENDENT	6 (+) 7 (-) 8 (+) 7 (-) 6 (+) 7 (-)		
DOUBL	E POLE S	WITCHES	ONLY	- ( - / - ( /		
<u>L</u>	9	1	DOWN	3 (+) 6 (-)		
M	R	1	UP DOMAI	3 (+) 6 (-) 3 (+) 6 (-)		
N		ı	DOWN DOWN	4)(4)(		
Р	V	2 1	UP	1 (+) 4 (–) 1 (+) 4 (–)		
•		2	ÜP	3 (+) 6 (-)		

6,7 LAMP (sa Selection 6: at No lamp	me coding for cove terminal	or both sele s 1 & 4; Sele	ctions) ection 7: above	e terminals	3 & 6
Neon Incandescent	1 125VAC 4 3V	2 250VAC 5 6V	6 12V superbright	<b>7</b> 18V superbrigl	<b>8</b> 24V
	Red	Amber	Green	Red	ıı
2VDC 6VDC	A B	L M	F G	R S	
12VDC	Č	Ñ	Ĥ.	Ť	
24VDC * Consult factor LED is 20ma.	ט ory for "daylig	ht bright" LE	D options. Typ	oical current	draw for

Orientation Lens Legend

8 FLUSH E No Seal One Seal	Black B B C	COLOR 1 White W Y	, PANEL SEAL Gray G H	
Q ACTUAT	OB.			٦

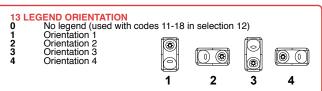
9 ACTUATOR 0 No Actuator Z Contura VII Actuator orientation over terminals:	3,6 1,4

10 LENS Lens color for LEDs must be clear, white, or match color of LED. Green or blue lenses are not recommended with Neon lamps.

0 - No Actuator Z - No Lens
White Amber Green Red Blue Lens style & location Blue Lens style & location 6 R G М т 00 7 C н Ν U O.O 8 D Ρ ٧ W Α L S Υ 1 3 







14 ACTUATOR LENS LEGEND
00 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 and one
body legend, lens legend must be specified in selection 12; body legend
specified in selection 14.
For legend options & codes, visit us at www.carlingtech.com.

- Notes:

  Consult factory to verify horsepower rating for your particular circuit choice.

  1 Custom colors are available. Consult factory.

  2 White imprinting is standard on black actuators. Black imprinting is standard on white, red and gray actuators. Custom colors are available, consult factory.

  3 Additional ratings available. See V-Series Switch Accessories page.

  4 Legends available for lighted oval lens version only



```
2 CIRCUIT
  Terminal Connections as viewed ( ) - momentary from bottom of switch: SP - single pole - uses terminals 1, 2 & 3.

8 terminal 10 terminal DP - double pole uses terminals 1, 2, 3, 4, 5 & 6.

8 - -7 8 - -7 Terminals 7, 8, 9 & 10 for lamp circuit only.
                                8 - - 7
1 - - 4
     2- -5
                                2 - - 5
                              3 -
10 -
     3 -
              - 6
- 9
                                                                            Connected Terminals
NONE
NONE
                                                   3, 5 & 6
ON
(ON)
ON
ON
                                                                                              NONE
OFF
OFF
OFF
                                                 2 & 3

3 3, 5 & 6

3 3, 5 & 6

3 3, 5 & 6)

3 3, 5 & 6
                                                                                      2 & 3, 5 & 4
2 & 3
2 & 3
2 & 3
2 & 3
5 & 3
```

\*Jumper between terminals 2 & 5 for circuits H,G,M,R & S are specified in selection 4. External jumper between terminals 2 & 4 for circuit E are provided by customer. Circuit E may be used for SP OFF-ON-ON circuit.

### 3 RATING <sup>4</sup> 1 .4VA @ 28VDC Resistive 15A 24V 20A 18V 20A 12V CDEFM 20A 14V, 10A 14VT (circuit 1, 4, A & D only) 10A 14V, 6A 14VT (circuit G only) .4VA/20A 12V

4 TERN	/INATION	BASE STYLE				
8 term	<u>10 Term</u>	<u>Termination</u>	<u>Jumper</u>			
1	2	.250 TAB (QC) no barriers	No			
Α	В	.250 TAB (QC) with barriers	No			
J	K	.250 TAB (QC) no barriers	Yes T2 to 5			
3	5	Solder Lug no barriers	No			
С	D	Solder Lug	No			
5	6	Wire Leads no barriers	No			
E	F	Wire Leads	No			
Note: C	odes J & K	for circuits H, G & M. Do not use	silicone based			
lubricants to reduce terminal insertion forces during connector assembly,						
as it is detrimental to function and performance.						

5 ILLUMINATION & SWITCH SEALING Lamp #1 above terminals 1 & 4 end of switch.; Lamp #2 above terminals 3 & 6 end of switch. Positive (+) and negative (-) symbols apply to LED lamps only						
<u>Sealed</u>	<u>Unsealed</u>	Lamps	Illumination Type	Lamp wired to Terminals		
S A	Ò	NONE	_	= , \ - , \		
A	1	1	INDEPENDENT DOWN	8 (+) 7 (-)		
B C D	2 3 4	2	UP	3 (+) 7 (-) 3 (+) 7 (-)		
Ď	4	1	DOWN	3 (7) 7 (-)		
_	-	2 1	DOWN	1 (+) 7 (-)		
E	5	1	UP	1 (+) 7 (–)		
_	_	2 1	UP	3 (+) 7 (-)		
F	6	1	INDEPENDENT UP	8 (+) 7 (-) 3 (+) 6 (-) 8 (+) 7 (-)		
G	7	2 1	INDEPENDENT	3 (+) 6 (-) 8 (+) 7 (-)		
u u	•		UP	3 (+) 7 (-)		
Н	Z	2 2 1	INDEPENDENT	3 (+) 7 (-) 8 (+) 7 (-)		
U	Υ		INDEPENDENT	8 (+) 7 (–)		
041015		2	INDEPENDENT	10 (+) 9 (-)		
SINGLE J	FPOLE SW 8	TICHES C	DOWN	3 (+) 8 (-)		
J	0	2	INDEPENDENT	3 (+) 8 (–) 6 (+) 7 (–)		
K	w	1	INDEPENDENT	8 (+) 7 (-)		
	••	ż	INDEPENDENT	6 \\ \frac{1}{7} \\ \frac{1}{7} \\ \-\\ \frac{1}{7} \\ \frac{1}{7} \\ \-\\ \frac{1}{7} \\ \frac{1}{7} \\ \-\\ \frac{1}{7} \\		
DOUBL	E POLE SV	VITCHES		- ( ) ( )		
<u>L</u>	9	1	DOWN	3 (+) 6 (-)		
M N	Ŗ	1	UP DOM/N	3 (+) 6 (-)		
IN	ı	2	DOWN DOWN	3 (+) 6 (-) 1 (+) 4 (-)		
P	V	2 1	UP	1 1		
-	-	2	ŬP	3 (+) 6 (-)		

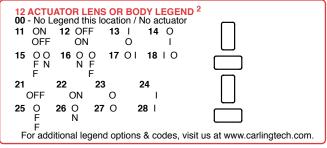
6,7 LAMP (sar Selection 6: ab No lamp				e terminals 3	3 & 6
Neon	1 125VAC	2 250VAC			
Incandescent	4 3V	<b>5</b> 6V	6 12V	<b>7</b> 18V	<b>8</b> 24V
LED*			superbright	superbrigh	ıt
	Red	Amber	Green	Red	
2VDC	Α	L	F	R	
6VDC	В	M	G	S	
12VDC	С	N	Н	T	
24VDC	D	Р	J	V	
*Consult factory	/ for "daylight b	oright" LED. 7	ypical current	draw for LED	) is 20ma
					=

8 BRACKET COLOR <sup>1</sup> , PANEL SEAL (EXTERNAL FOAM GASKET) X & XI with Flush Bracket X, XI, XII with Raised Bracket						
# of gask	ets 0	1	2	0	1	
White	w	Ÿ	ž	2	5	
Gray	G	Н	J	3	6	

9 ACTUATOR No Actuator Contura X Contura XI Contura XII	0 Black 1 6 J	Gray 2 7 <b>K</b>	White 3 8 N	Red 4 9 M		
Actuator orientation over terminals: 3,6 1,4						

10 LENS - ABOVE LAMP #1 TERMINALS 1,4 11 LENS - ABOVE LAMP #2 TERMINALS 3,6 0 - No Actuator Z - No Lens								
Clear	White	Amber	Green	Red	Blue	Lens Style		
3	8	D	J	Р	٧	Bar		
4	9	E	K	R	W	One piece Square		
5	Α	F	L	S	Υ	Two piece Square*		
						(With clear top protective lens)		
2	7	С	Н	N	U	Two piece Square*		
						(With smoke top protective lens)		
1	6	В	G	M	Т	Two piece Square*		
						(With white ton protective lens)		

\* All bottom lenses are molded of opaque material. Consult factory for other lens colors. Lens color for LEDs must be clear, white, or match color of LED. Green or blue lenses are not recommended with Neon lamps



13 LEGEND ORIENTA 0 No legend (use 1 Orientation 1 2 Orientation 2 3 Orientation 3 4 Orientation 4		11-18 in sele	ection 12)	
	1	2	3	4

14 ACTUATOR LENS LEGEND
00 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 and one
body legend, lens legend must be specified in selection 12; body legend
specified in selection 14.
For legend options & codes, visit us at www.carlingtech.com.

Consult factory to verify horsepower rating for your particular circuit choice.

- Sulfiactory to Veriny forsepower family only your particular circuit critice.

  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.

  With 2 square lenses, use selection 12 for lens above lamp 1, & selection 14 for lens
- Additional ratings available. See V-Series Switch Accessories page. Not available with Contura XI rockers.



### 2 CIRCUIT Terminal Connections as viewed Terminal Connections as viewed ( ) - momentary from bottom of switch: SP - single pole - uses terminals 1, 2 & 3. 8 terminal 10 terminal DP - double pole uses terminals 1, 2, 3, 4, 5 & 6. 8 - - 7 1 - - 4 8 - - 7 1 - - 4 Terminals 7, 8, 9 & 10 for lamp circuit only. 2 - - 5 2 - - 5 3 - - 6 3 - - 6 10 -- 9 Position: SP DP 3 1 & 2, 4 & 5 OFF 2 Connected Terminals 2 & 3, 5 & 6 ON ON ON A D J NONE NONE ON ON NONE ÓΝ SPECIAL CIRCUITS 2 & 3 2 & 3, 5 & 6 2 & 3, 5 & 6 2 & 3, 5 & 4 2 & 3 2 & 3 5 & 3 H\* G\* S\* E\* 5 & 4 OFF 1 & 2

 $^*$ Jumper between terminals 2 & 5 for circuits H,G,M,R & S are specified in selection 4. External jumper between terminals 2 & 4 for circuit E are provided by customer. Circuit E may be used for SP OFF-ON-ON circuit.

```
ATING 4
.4VA @ 28VDC Resistive
15A 24V
20A 18V
20A 12V
20A 14V, 10A 14VT (circuit 1, 4, A & D only)
10A 14V, 6A 14VT (circuit G only)
.4VA/20A 12V
1 B C D E F
              .4VA/15A 24V
```

5 & 6

### 4 TERMINATION / BASE STYLE

8 term	<u>10 Term</u>	<u>Termination</u>	<u>Jumper</u>
1	2	.250 TAB (QC) no barriers	No
Α	В	.250 TAB (QC) with barriers	No
J	K	.250 TAB (QC) no barriers	Yes T2 to 5
3	5	Solder Lug no barriers	No
С	D	Solder Lug	No
5	6	Wire Leads no barriers	No
E	F	Wire Leads	No

Note: Codes J & K for circuits H, G & M. Do not use silicone based lubricants to reduce terminal insertion forces during connector assembly, as it is detrimental to function and performance.

### FULL HAINIATION & CONTOU CEALING

	:above teri			np #2 above terminals imbols apply to LED
3 & 6 en		. Positive (-	+) and negative (-) sy	mbols apply to LED
	<u> Únsealed</u>	<u>Lamps</u>	Illumination Type	Lamp wired to Termi-
<u>nals</u> <b>S</b>	0	NONE	_	_
Č	<u>3</u>	2	UP	3 (+) 7 (-)
H	<b>Z</b> F POI F SV	VITOUTO /	INDEPENDENT	8 (+) 7 (–)
M M	E POLE SV	1 VII CHES	JIVLY TIP	3 (+) 6 (-)

### 6 LOCK

Lock above terminals 1 & 4 end of switch.

Consult factory to verify horsepower rating for your particular circuit choice.

Custom colors are available. Consult factory.

White imprinting is standard on black actuators; Black imprinting is standard on white, red and gray actuators; Custom colors are available, consult factory.

Located over T1-4 end of switch.

Additional ratings available. See V-Series Switch Accessories page. Located over T3-6 end of switch.

6,7 LAMP (sar Selection 6: at No lamp	0		ctions) ction 7: above	e terminals	3 & 6
Neon	1 125VAC	<b>2</b> 250VAC	0.40)/	<b>7</b> 40)/	0041
Incandescent	<b>4</b> 3V	<b>5</b> 6V	<b>6</b> 12V	<b>7</b> 18V	<b>8</b> 24V
LED*	Red	Amber	superbright	superbrigl Red	nt
2VDC	A A	Amber	Green -	Reu R	
6VDC	B	М	Ġ	S	
12VDC	č	NI	g	ř	
24VDC	č	in .	7		
* Concult footo	ם ידע for "dovlial	at bright" I El	J Contions Tyr	v viaal aurrant	drow for
* Consult facto LED is 20ma.	iy ioi dayligi	it bright LE	J options. Typ	ncai current	uraw ioi

8 FLUSH BRACK		1, PANEL SEAL	
Blacl	< White	Gray	
No Gasket 1	2	3 ΄	
One Gasket 4	5	6	

### 9 HARD SURFACE ACTUATOR

3 HAHD 30					
Contura X	Black 1	Gray 2	Red 3	White 4	
Actuator orie	3.6 1.4				

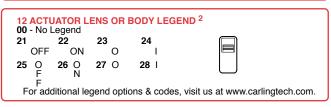


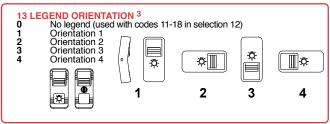
10 LENS - ABOVE LAMP #2 TERMINALS 5 Z - No Lens							
Clear	White	Amber	Green	Red	Blue	Lens Style	
3	8	D	J	Р	V	Bar	
4	9	E	K	R	W	One piece Square	
5	Α	F	L	S	Υ	Two piece Square*	
						(with clear top protective lens)	
2	7	С	Н	N	U	Two piece Square*	
						(with smoke top protective lens)	
1	6	В	G	М	Т	Two piece Square*	
						(with white top protective lens)	

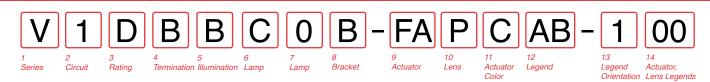
\* All bottom lenses are molded of opaque material. Consult factory for other lens colors

Lens color for LEDs must be clear, white, or match color of LED. Green or blue lenses are not recommended with Neon lamps.

### 11 ACTUATOR LOCK FUNCTION AND COLOR 3 Up & Down **R** Lock Color Up Down Match Actuator н White C Κ Red Gray Safety Orange N







### 2 CIRCUIT Terminal Connections as viewed ( ) - momentary from bottom of switch: SP - single pole - uses terminals 1, 2 & 3. 8 terminal 10 terminal DP - double pole uses terminals 1, 2, 3, 4, 5 & 6. 8 - - 7 1 - - 4 Terminals 7, 8, 9 & 10 for lamp circuit only. 1 - - 4 2 - - 5 2 - - 5 3 - - 6 3 - - 6 Position: SP DP 2 & 8 1 A 2 B 3 C 4 D 5 F 6 J 7 K 8 L SPECIAL CIRCUITS H\* 10 -- 9 2 Connected Terminals NONE 2 & 3, 5 & 6 ON 2 & 3 H' 2 & 3, 5 & 4 2 & 3, 5 & 6 (2 & 3, 5 & 6) (2 & 3, 5 & 6) 2 & 3 2 & 3 2 & 3 G\* M\* R\* E\* S\* 5 & 6 2 & 3, 5 & 6 \*Jumper between terminals 2 & 5 for circuits H,G,M,R & S are specified in selection 4. External jumper between terminals 2 & 4 for circuit E are provided by customer. Circuit E may be used for SP OFF-ON-ON circuit.

4 TERMINATION	BASE STYLE	
8 Term 10 Term	Termination	<u>Jumper</u>
1 2	.250 TAB (QC) no barriers	No
A B	.250 TAB (QC) with barriers	No
J K	.250 TAB (QC) no barriers	Yes T2 to 5
J K 3 4	.250 TAB (QC) no barriers Solder Lug no barriers	No
C D	Solder Lug	No
5 6 E F	Wire Leads no barriers	No
E F	Wire Leads	No
Note: Codes J & K	for circuits H, G & M. Do not us	e silicone based
lubricants to reduce	e terminal insertion forces durin	g connector assembly,

as it is detrimental to function and performance.

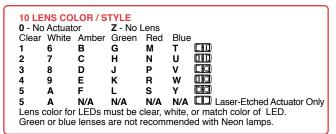
Lamp #1:above terminals 1 & 4 end of switch.; Lamp #2 above terminals

		h. Positive (+) and neg	gative (-) symbols apply to LED
	s only <u>Lamps</u> NONE	Illumination Type	Lamp wired to Terminals
S A B C D	NONE 1	- INDEPENDENT	- 8 (+) 7 (–)
В	1	DOWN UP	8 (+) 7 (-) 3 (+) 7 (-) 3 (+) 7 (-) 3 (+) 7 (-)
Ď	2 1 2 1 2 1 2	DOWN	3 (+) 7 (-)
Е	2 1	DOWN UP	1 (+) / (-) 1 (+) 7 (-)
F	2	ŨΡ	3 (+( 7 (-)
F	2	INDEPENDENT UP	8 (+) 7 (-) 3 (+) 6 (-)
G	1	INDEPENDENT UP	8 (+) 7 (-)
H	2	INDEPENDENT	3 (+) 7 (-) 8 (+) 7 (-)
	GLE POLE SV	VITCHES ONLY	2 (.) 2 ( )
J	2	DOWN INDEPENDENT	3 (+) 8 (-) 6 (+) 7 (-)
K	1 2	INDEPENDENT INDEPENDENT	8 (+) 7 (–)
DOL		WITCHES ONLY	6 (+) 7 (–)
L M	1	DOWN UP	3 (+) 6 (-)
N	i	DOWN	3 (+) 6 (-) 3 (+) 6 (-)
Р	2 1	DOWN	1 (+) 4 (-)
Р	2	UP UP	1 (+) 4 (–) 3 (+) 6 (–)
U	2 1 2	INDEPENDENT	8 (+) 7 (–)
	۷	INDEPENDENT	10 (+) 9 (–)

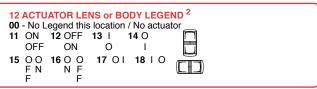
6 & 7 LAMP No lamp Neon Incandescent LED*	0 1 125VAC 4 3V	2 250VAC 5 6V	6 12V superbright	7 18V 8 superbright	24V
2VDC	Red <b>A</b>	Amber	Green	Red <b>R</b>	
6VDC	В	м	G	S	
12VDC	С	N	Н	T	
24VDC	D	P	J	V	
* Consult facto LED is 20ma.	ry for "dayligl	nt bright" LEI	O options. Typ	ical current dra	aw for

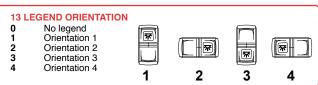
8 BRAC	KET COLOR	& PANEL	SEAL	
Color	No Gasket	1 Gasket	2 Gasket	
Black	В	С	D	
Gray	G	Ĥ	J	
White	W	Υ	Z	

|--|









### 14 ACTUATOR / LENS LEGEND

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 and one body legend, lens legend must be specified in selection 12; body legend specified in selection 14.

For legend options & codes, visit us at www.carlingtech.com.

Consult factory to verify horsepower rating for your particular circuit choice.

Custom colors are available. Consult factory.

White imprinting is standard on black actuators; Black imprinting is

standard on white, red and gray actuators.
Additional ratings available. See V-Series Switch Accessories page.

Email: sales@carlingtech.com Application Support: team2@carlingtech.com Phone: (860) 793–9281 Fax: (860) 793–9231 www.carlingtech.com









Termination Illumination Lock





Bracket



Actuator







Legend



13 Orientation

# 1 SERIES

Terminal Connections as viewed ( ) - momentary from bottom of switch: SP - single pole - uses terminals 1, 2 & 3. DP - double pole uses terminals 1, 2, 3, 4, 5 & 6. 8 terminal 10 terminal 8 - - 7 1 - - 4 Terminals 7, 8, 9 & 10 for lamp circuit only. 8 - - 7 2 - - 5 2 - - 5 3 - - 6 - 6 10 -- 9

Position: 2 & 3, 5 & 6 Connected Terminals 1 & 2, 4 & 5 SP DP 1 ÓN NONE OFF В (ON) NONE OFF 4 D NONE 6 ON OFF ON K 7 8 ON OFF (ON) (ON) (ON) OFF 9 Ν NONE

SPECIAL CIRCUITS 2 & 3 2 & 3. 5 & 4 5 & 4 2 & 3, 5 & 6 (2 & 3, 5 & 6) G\* 2 & 3 OFF M3 2 & 3 OFF (2 & 3, 5 & 6) R\* 2 & 3 2 & 1 5 & 6 5 & 3 5 & 1 2 & 3, 5 & 6

\*Jumper between terminals 2 & 5 for circuits H.G.M.R & S are specified in selection 4. External jumper between terminals 2 & 4 for circuit E are provided by customer. Circuit E may be used for SP OFF-ON-ON circuit.

### 3 RATING <sup>3</sup>

.4VA @ 28VDC Resistive 15A 24V С 20A 18V D 20A 12V 20A 14V, 10A 14VT (circuit 1, 4, A & D only) E 10A 14V, 6A 14VT (circuit G only)

### 4 TERMINATION / BASE STYLE

8 Term 10 Term Termination Jumper .250 TAB (QC) no barriers No В .250 TAB (QC) with barriers No Yes T2 to 5 .250 TAB (QC) no barriers

Note: Codes J & K for circuits H, G & M. Do not use silicone based lubricants to reduce terminal insertion forces during connector assembly, as it is detrimental to function and performance.

### **5 ILLUMINATION**

Lamp #1:above terminals 1 & 4 end of switch.; Lamp #2 above terminals 3 & 6 end of switch. Positive (+) and negative (-) symbols apply to LED lamps only

Lamps **Illumination Type** Lamp wired to Terminals NONE UР 3 (+) 7 (-) INDEPENDENT н 8 (+) 7 (-)

DOUBLE POLE SWITCHES ONLY

3 (+) 6 (-)

### **6 LOCK OPTION**

Low Profile Lock

Consult factory to verify horsepower rating for your particular circuit choice.

Custom colors are available. Consult factory.

White imprinting is standard on black actuators; Black imprinting is standard on white, red and gray actuators.

Additional ratings available. See V-Series Switch Accessories page.

### 7 LAMP

No lamp 1 125VAC 2 250VAC Neon 6 12V Incandescent 4 3V 5 6V 7 18V 8 24V superbright superbright LED' Red Amber Green Red 2VDC R 6VDC R М G s 12VDC C Ν Н т 24VDC D \* Consult factory for "daylight bright" LED options. Typical current draw for LED is 20ma.

Actuator

Color

**8 BRACKET COLOR & PANEL SEAL** No Gasket 1 Gasket 2 Gasket Color Black В С D Gray White W Z

### 9 ACTUATOR COLOR / STYLE

Black - Standard Rocker FD Black - Laser Etched FS Red - Standard Rocker Red - Laser Etched FT



### 10 LENS COLOR / STYLE

Z - No Lens Clear White Amber Green Red Blue 6 В G М Т 

N/A N/A N/A N/A Laser-Etched Actuator Only

Lens color for LEDs must be clear, white, or match color of LED. Green or blue lenses are not recommended with Neon lamps.

### 11 ACTUATOR LOCK COLOR / FUNCTION 1

**LOCK IN POSITION** Lock Color UP UP & DOWN **CENTER** Match Actuator Α Black White С K 3 D E Red 4 w Orange М 5 Gray

### 12 ACTUATOR LENS or BODY LEGEND 2

00 - No Legend 22 23 OFF ON 0 **25** O **26** O **27** O 28 I



### 13 LEGEND ORIENTATION

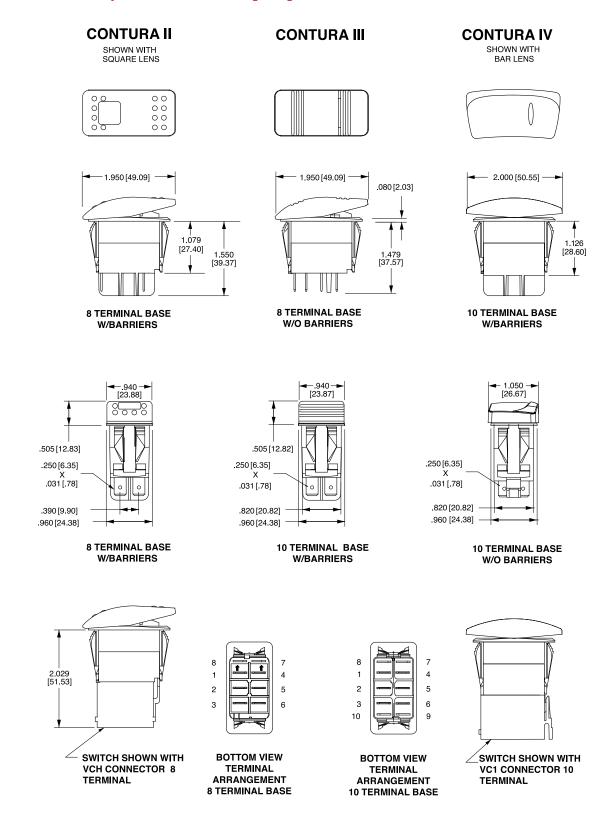
No legend 0 Orientation 1 Orientation 2 3 Orientation 3 Orientation 4







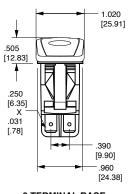
### **Dimensional Specifications: in. [mm]**



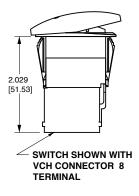
### **Dimensional Specifications: in. [mm]**

# **CONTURA V** SHOWN WITH BAR LENS 1.922 [48.56] 1.079 [27.40] [39.37]

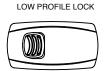
**8 TERMINAL BASE** W/BARRIERS

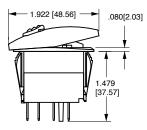


**8 TERMINAL BASE** W/BARRIERS

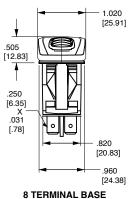


**CONTURA V** SHOWN WITH





**8 TERMINAL BASE** W/O BARRIERS



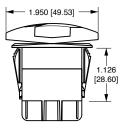
W/O BARRIERS

5

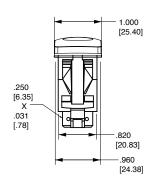
# **CONTURA VI**

SHOWN WITH OVAL LENS

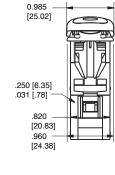




10 TERMINAL BASE W/BARRIER AND LAMP TERMINAL



10 TERMINAL BASE W/O BARRIERS



10 TERMINAL BASE W/O BARRIERS

**CONTURA VII** 

SHOWN WITH LARGE LENS

AND BAR LENS

1.922 [48.82] -

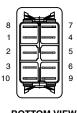
10 TERMINAL BASE

W/O BARRIERS



2

**BOTTOM VIEW TERMINAL** ARRANGEMENT **8 TERMINAL BASE** 



**BOTTOM VIEW** TERMINAL ARRANGEMENT 10 TERMINAL BASE

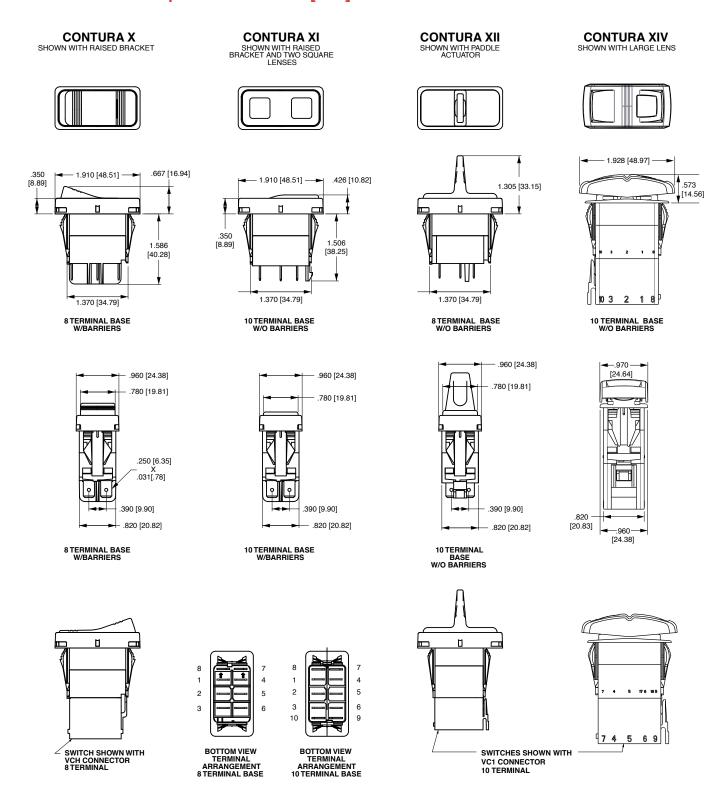


VC1 CONNECTOR 10 **TERMINAL** 

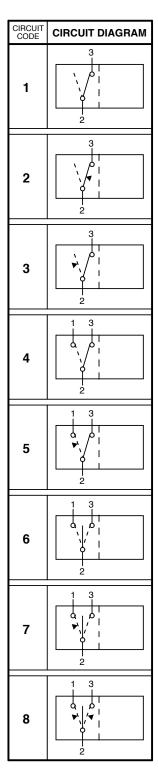


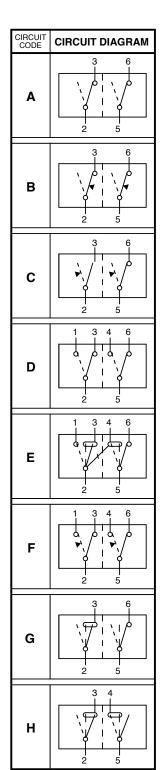
SWITCH SHOWN WITH VC1 **CONNECTOR 10 TERMINAL** 

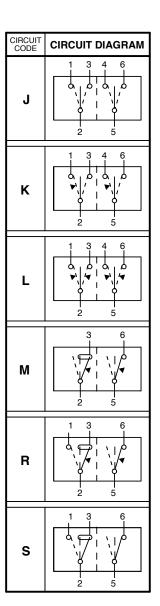
### **Dimensional Specifications: in. [mm]**



### **Circuit Diagrams:**

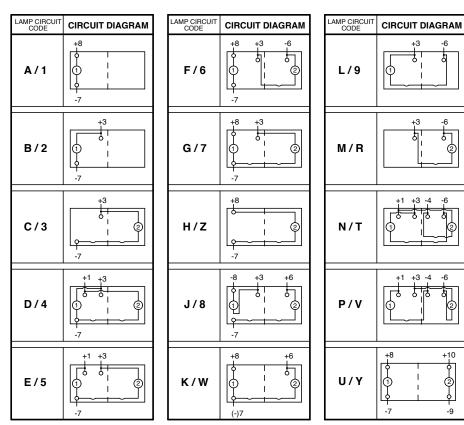


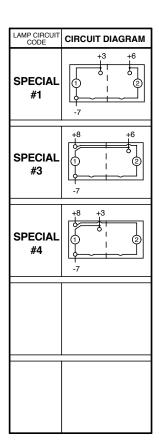




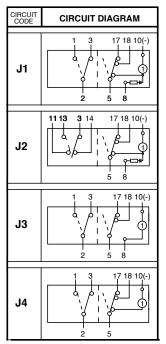
SYMBOL LEGEND					
SYM.	DEFINITION				
0	DESIGNATES TERMINALS AND CONTACTS				
<b>~~</b>	DESIGNATES MAINTAINED CIRCUITS				
	DESIGNATES OTHER POSITION				
<b>○▼</b> ○	DESIGNATES MOMENTARY CIRCUITS				
	DESIGNATES TWO POSITION CONNECTION				
	DESIGNATES EXTERNAL JUMPER PROVIDED BY CUSTOMER				

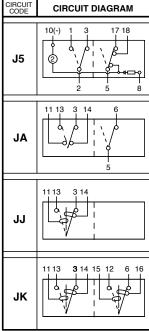
### **Lamp Circuit Diagrams:**





### J-Series Hazard Warning Circuit Diagrams:





J circuits are available for all non-locking V-Series styles.
Consult factory for partnumber details.

SYMBOL LEGEND					
SYM.	DEFINITION				
0	DESIGNATES TERMINALS AND CONTACTS				
$\Box$	DESIGNATES LAMP LOCATION				

-6

8

+10 **†** 

### Reduce inventory levels and cost by stocking actuators and base switches separately.

Contura II, III, IV, V Actuator only: VV with code A or C for selection 9, & with selections 10-14 in the ordering schemes.

Contura VI Actuator with lenses and inserts only: VV with code selections 9-16

Contura II, III, IV, V, VII Actuator only: VV with code A, C, E, G, P or Z for selection 9 & with selections 10-14 in the ordering schemes.

Contura X, XI, XII, XIV actuators with lenses separately: VV with code selections 9-14 in the ordering schemes.

Panel Seal: VPS

### Contura X & XI actuators without lenses separately:



### 1 CONTURA X & XI ACTUATOR SEPARATELY

2 ACTUATOR					
Contura X	Black 1	Gray 2	White 3	Red 4	
Contura XI	6	7	8	9	

### 3 LENS OPENING FOR 1

- One bar lens One bar lenses One square lens two square lens
- square lens on top/ bar lens on bottom (Contura X only)

### **ACTUATOR LENS OR BODY LEGEND** 00 - No Legend this location

11 ON 12 OFF 13 I OFF ON 0 15 00 F N **16** O O N F 17 01 18 1 0

For additional legend options & codes, visit us at www.carlingtech.com.

### 5 LEGEND ORIENTATION 1

Orientation 4

- Ō No legend Orientation 1 Orientation 2 Orientation 3
- ≣D 2 1



### Contura X, XI & XII top piece of 2-piece lens separately:



### Contura X, XI & XII actuator lens assembly:

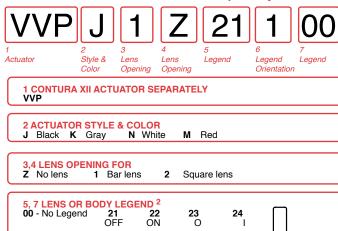


1 piece lens/bar lens are positioned the same as bottom lens for assembly, minus the top lens. Lenses snap in from bottom.

### Notes

- If actuator lens opening for 2 bar or 2 square lenses, legend orientation 0,1, or 2
- Center of actuator marking not available for Contura XII.
- Legend is not available for bar style lens.
- Not recommended with neon lamps.
- Must also order top piece of 2 piece square lens separately.

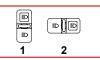
### Contura XII actuators without lenses separately:



### 6 LEGEND ORIENTATION 3

25 0

- 0 No legend
- 1 Orientation 1 2 Orientation 2



28 I

### Contura X, XI & XII actuator lens assembly separately:



**26** O

Ν

For additional legend options & codes, visit us at www.carlingtech.com.

**27** O

### **CONTURA X, XI & XII LENS SEPARATELY** VVL

### 2 LENS STYLE 3

- 1 2 3 Bar lens
- One Piece Square lens
- Bottom of Two-Piece Square lens 5

### **3 TRANSLUCENT LENS COLOR**

- Clear 2 White 3 Amber
  - 4 Green 4
- 6 Blue 4 5 Red



### 5 LEGEND ORIENTATION 3

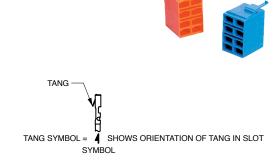
- 0 No legend Orientation 1
- 1 2 3 4 Orientation 2 Orientation 3 Orientation 4

- 2
- I D 3

### Easily integrate Contura products into your system, with Contura Accessories

### **Contura Connectors**

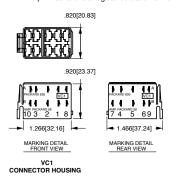
Q.C. SELECTION GUIDE								
	PART NO		WIRE RANGE					
COMPANY SERIES	PLAIN BRASS	TIN PLATED BRASS	AWG	MM <sup>2</sup> (REF)	ORIEN- TATION			
	02965580		12	3.0				
	02965471	12010601	(2)16-14	(2)1.0-2.0	l			
PACKARD 58 SERIES	02965470		16-14	1.0-2.0	В			
00 OLI IILO	02965469	06288318	20-18	.58				
		12084590	10	5.0				
		12052224	12	3.0				
PACKARD		12015870	16-14	1.0-2.0	l			
METRI-PACK		12020035	(2)22-18	(2).58	Α			
630 SERIES	12015832	12015869	20-18	.58	1			
		12052222	20-22	.355				
AMP 250 SERIES	60253-1	60253-2	16-12	1.3-3	В			
	00253-1		(2) 16	(2) 1.3				
FASTIN-FASTON	42100-1	42100-2	18-14	.8-2	В			
	60295-1	60295-2	22-18	.39				

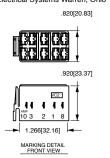


NOTE: Consult Delphi Packard and/or Amp on actual part numbers and availability.

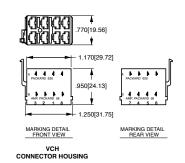
AMP is a registered trademark of AMP Inc. Harrisburg, PA

Delphi Packard is a registered trademark of Delphi-Packard Electrical Systems Warren, Ohio





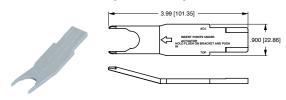
VC2 CONNECTOR HOUSING (For AMP terminals only)



### Contura X Boot (P/N VB1-01)



### Contura II, III, IV, V, VI & VII Actuator Removal Tool (P/N VRT)



### **Additional V-Series Ratings**

- .4VA @ 28VDC Resistive 10A 250VAC 1/2 HP, 15A 125 VAC 1/2 HP, No Agency Listings 10A 250VAC 1/2 HP, 15A 125 VAC 1/2 HP, UL Recognized, CSA Certified
- 15A 24V 20A 18V
- 20A 12V
- 20A 14V, 10A 14VT (circuits 1, 4, A, & D only)
- 10A 14V, 6A, 14VT (circuit G only)

69

**◆** 1.466[37.24] **►** 

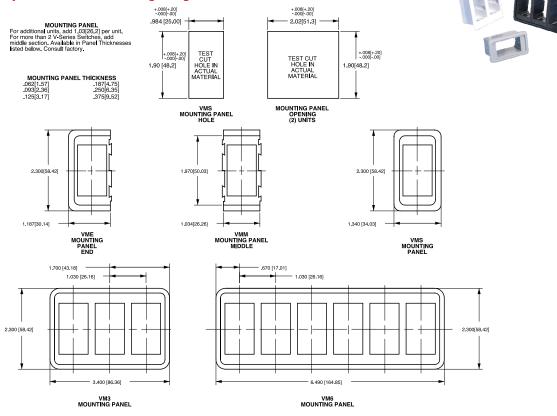
- G 20A 6V 20A 3V
- 15A 125 VAC, 10A 250VAC, 1/2 HP 125-250 VAC; 6A 125 VAC L
- .4VA/20A 12V (combi-contact) М
- (combination gold/silver contacts for borderline dry circuit applications) .4VA/15A 24V (combi-contact) Ν
  - (combination gold/silver contacts for borderline dry circuit applications)

### NOTES

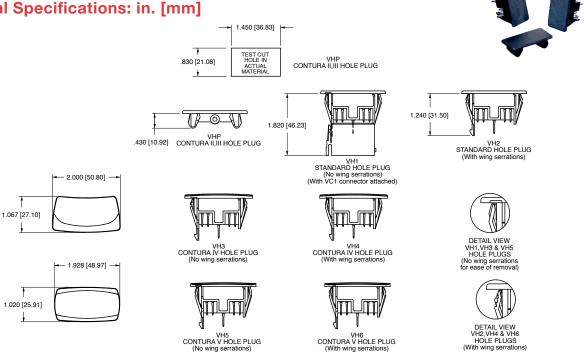
Consult factory to determine availability for individual circuits and their HP rating.

- Not available with Contura 7 or 14 rocker styles.
- Rating L available with circuits 1, 4, A & D only.

### **Contura Mounting Panels Dimensional Specifications: in. [mm]**



### **Contura Hole Plug Dimensional Specifications: in. [mm]**



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