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:

Download 3D CAD Files



Watch Product Video



Product Highlights:

- Certified to IP66/68 with dual seals around lamps and rocker stem.
- 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

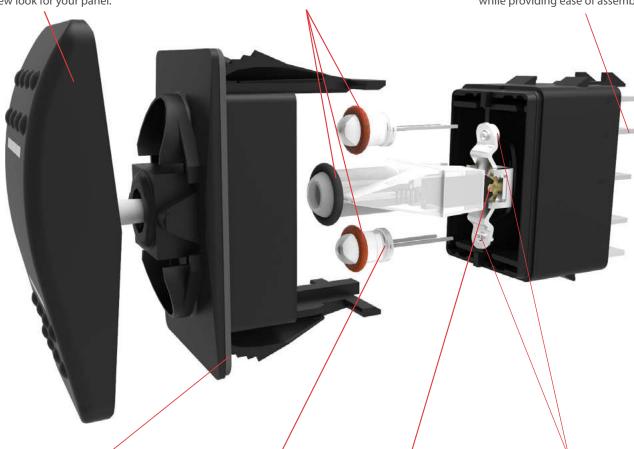
Panel redesign is a snap with our wide range of rocker styles. Achieve maximum design variety with minimum inventory. Simply swap rockers to create an entirely new look for your panel.

DUAL SEAL PROTECTION

Seals out water, dust, debris, and enables switch certification to IP66/68 for front panel components.

CLEAN CONNECTIONS

Options for both eight and ten terminal base styles with AMP & Packard compatible connectors affords myriad circuit options while providing ease of assembly.



OPTIONAL PANEL SEAL

Prevents 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 and a variety of different electrical ratings.



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 WAVF 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 50,000 - 100,000 cycles circuit 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

Mechanical

150,000 cycles minimum Endurance

circuit dependent

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

.830[21.08]

1.450[36.83]

TEST CUT HOLE IN ACTUAL MATERIAL

SWITCH MOUNTING HOLE

with an elastomer overlay.

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

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

ABS shell

Actuator Travel (Angular Displacement)

2 position

Panel Thickness Range

3 positions 9° from center

Mounting Specifications

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



Corrosion

Shock

Moisture Resistance

Environmental

Sealing Sealed version: IP66/68, this rating

applies to front panel components of the actual switch only, and signifies complete protection against dust as

well as powerful jets of water. Mixed Flowing Gas (MFG) Class III 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 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.

Mil STD 810, Method 510.2 Air Velocity Dust

300 Ft/Min Duration 16Hr

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

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.



```
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
                           1 - - 4
                         2 - - 5
3 - - 6
    2 - - 5
    3 - - 6
                        10 -
                                 - 9
 Position:
SP DP
                                                             2
Connected Terminals
                                  2 & 3, 5 & 6
ON
(ON)
ON
                                                                                                              1 & 2, 4 & 5
OFF
OFF
1 A 2 B 3 C 4 D 5 F 6 J 7 K 8 L SPECIAL CIRCUITS H*
                                                                            NONE
NONE
                                                                                                                   (OFF)
ON
                                                                            NONE
                                          ON
ON
ON
ON
                                                                            NONE
                                                                                                                    (ON)
ON
                                                                             OFF
                                                                                                                     (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
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.
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3 RATING ³ .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	10 Term	<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	its to reduce	terminal insertion forces during	connector assembly,

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

Lamp #	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	<u>Lamps</u> NONE	Illumination Type	Lamp wired to Terminals				
A B C D	Unsealed 0 1 2 3 4	1 1 2 1	INDEPENDENT DOWN UP DOWN	8 (+) 7 (-) 3 (+) 7 (-) 3 (+) 7 (-) 3 (+) 7 (-)				
E	5	2 1	DOWN UP	1 (+) 7 (–) 1 (+) 7 (–)				
F	6	2 1 2 1	UP INDEPENDENT UP	3 (+) 7 (-) 8 (+) 7 (-) 3 (+) 6 (-)				
G	7	1	INDEPENDENT UP	8 (+) 7 (-) 3 (+) 7 (-) 8 (+) 7 (-)				
H	Z Y	2 2 1 2	INDEPENDENT INDEPENDENT INDEPENDENT	8 (+) 7 (-) 8 (+) 7 (-) 8 (+) 7 (-) 10 (+) 9 (-)				
	E POLE SV	VITCHES (ONLY					
J	8	1	DOWN INDEPENDENT	3 (+) 8 (-) 6 (+) 7 (-)				
K	W	1 2	INDEPENDENT INDEPENDENT	8 (+) 7 (-) 6 (+) 7 (-)				
DOUB	LE POLE S 9	WITCHES	ONLY DOWN	3 (+) 6 (–)				
М	R	i	UP					
Ň	Ť	1	DOWN	3 (+) 6 (-)				
Р	v	2 1 2	DOWN UP UP	1 (+) 4 (-) 1 (+) 4 (-) 3 (+) 6 (-)				

6,7 LAMP (SA Selection 6: at No lamp	ME CODING bove terminal 0	FOR BOTH s 1 & 4; Sele	SELECTION ection 7: above	S) e terminals	3 & 6
Neon	1 125VAC	2 250VAC	C 40\/	7 4 0 \ /	0.041/
Incandescent I FD*	4 3 V	5 6V	6 12V superbright	7 18V superbrigi	8 24V ht
	Red	Amber	Green	Red	
2VDC	A	L.	F	Ŗ	
6VDC	В	M	Ģ	<u>s</u>	
12VDC	С	N	Н	I	
24VDC	D	Р	J	V	
* Consult factor	ory for "daylig	ht bright" LEI	D options. Typ	ical current	t draw for
LED is 20ma.		_			

One S		C	W Y	H			
9 ACT 0 A, B C, D	No Co	OR Actuator Intura II Intura III			0000		

Gray

8 FLUSH BRACKET COLOR 1, PANEL SEAL

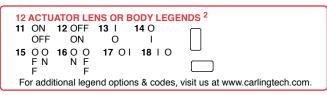
Actuator orientation above terminals: 3,6

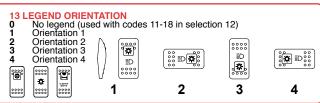
Black

White

	No Actuat ar White		Z - No Green		Blue	0
1	6	8	G	M	Т	
2	7	С	Н	N	U	$\overline{\Box}$
3	8	D	J	Р	٧	$\overline{\Box}$
4	9	E	K	R	W	
5	A	F	L	S	Υ	







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.

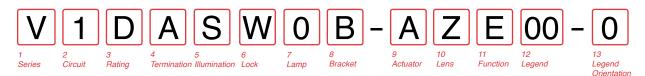
Consult factory to verify horsepower rating for your particular circuit choice.

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 2 & 3, 5 & 6 ON DF NONE ON ON (ON) D ON ON ON OFF ĸ (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 ⁴ .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	/ 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
3 5	Solder Lug no barriers	No
C 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.

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.

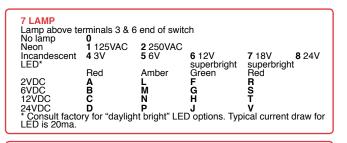
Custom colors are available. Consult factory.

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

The air gray actuators. Coston 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.



Or	ie Seal	С	Υ	Н				
9 I	HARD SU	RFACE A						
Co	ntura II	Black A	Gray B	Red G	White H			
Co	ntura III	С	D	E	F		\bigcirc	
Ac	Actuator orientation above terminals: 3,6 1,4							

Gray

8 FLUSH BRACKET COLOR 1, PANEL SEAL

Black

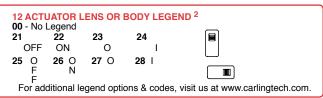
В

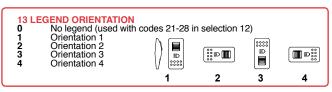
No Seal

White









8 FLUSH BRACKET COLOR 1, PANEL SEAL

White **W**

Black

В

No Seal



1 SERIES

```
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
                       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 L
SPECIAL CIRCUITS
H*
G* 2 8
S* 2 8
M* (2 8
R* (2 8
E*
                                       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 ⁴ 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	Wire Leads no barriers	No
E F	Wire Leads	No
Note: Codes J & k	Cfor circuits H. G. & M. Do not us	se silicone based

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

		H SEALING & 4 end of switch.; L e (+) and negative (-)	amp #2 above terminals symbols apply to LED
Sealed Unsea S 0 A 1 B 2 C 3 D 4	led Lamps NONE	Illumination Type	Lamp wired to Terminals
A 1	1	INDEPENDENT	8 (+) 7 (-)
B 2 C 3	1 2 1	DOWN UP	8 (+) 7 (-) 3 (+) 7 (-) 3 (+) 7 (-)
D 4	1	DOWN DOWN	3 (+) 7 (-) 1 (+) 7 (-)
E 5	1	UP	1 (+) 7 (-)
F 6	2 1 2 1 2 1 2 2	UP INDEPENDENT	3 (+) 7 (-) 8 (+) 7 (-) 3 (+) 6 (-) 8 (+) 7 (-) 3 (+) 7 (-) 8 (+) 7 (-)
G 7	2 1	UP INDEPENDENT	3 (+) 6 (-) 8 (+) 7 (-)
H Z	2	UP INDEPENDENT	3 (+) 7 (-) 8 (+) 7 (-)
ÜΫ́		INDEPENDENT	8 (+) 7 (–)
SINGLE POLE	SWITCHES		10 (+) 9 (-)
J 8	1 2	DOWN INDEPENDENT	3 (+) 8 (-) 6 (+) 7 (-)
K W	1	INDEPENDENT INDEPENDENT	8 (+) 7 (-)
DOUBLE POLI	E SWITĆHES	S ONLY	
L 9 M R	1 1	DOWN UP	3 (+) 6 (-) 3 (+) 6 (-) 3 (+) 6 (-)
Ñ T	1 2	DOWN DOWN	3 (+) 6 (-) 1 (+) 4 (-)
P V	1 2	UP UP	1 (+) 4 (-)
		UF	3 (+) 6 (–)

6,7 LAMP (SA Selection 6: at No lamp	oove terminal 0	s 1 & 4; Se	election 7: abov	NS) ve terminals 3	& 6
Neon Incandescent LED*	1 125VAC 4 3V	2 250VA 5 6V	6 12V	7 18V	8 24V
2VDC	Red A	Amber	superbright Green	superbright Red R	
6VDC 12VDC	B	M	G	S T	
24VDC * Consult factor	Ď	P ht hright" I	JV ED ontions Tv	nical current	draw for
LED is 20ma.	ny ior dayiig	nt bright L	LD options. Ty	picai carrent	diaw ioi

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 above terminals:	1,4 () () () () ()

Gray

۱ - 0	LENS No Actuate Actuat		Z - No Green G H J K L		Blue T U V W				
Len: Gree	Lens color for LEDs must be clear, white, or match color of LED. Green or blue lenses are not recommended with Neon lamps.								

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



13 L 0	EGEND ORIENTATION No legend (used wi		8 in selecti	on 12)	
1 2 3 4	Orientation 1 Orientation 2 Orientation 3 Orientation 4		(B)		(a)
		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.

 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
1 A
2 B
3 C
4 D
5 F
6 J
7 K
8 L
SPECIAL CIRCUITS
                                                                   NONE
OFF
OFF
                                      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
2 & 3
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.
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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
BCDEFMX
           .4VA/15A 24V
```

as it is detrimental to function and performance.

		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

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

lubricants to reduce terminal insertion forces during connector assembly,

3 & 6 end of switch. Positive (+) and negative (-) symbols apply to LED lamps only							
Sealed	Unsealed	Lamps NONE	Illumination Type	Lamp wired to Terminals			
S A B C	1	1	INDEPENDENT	_ 8 (+) 7 (–)			
В	2	1	DOWN				
č	2 3 4	2 1	UP DOWN	3 (+) 7 (-) 3 (+) 7 (-) 3 (+) 7 (-)			
U	4		DOWN	1 (+) 7 (-)			
E	5	1	UP	1 (+) 7 (-)			
_	_	2	UP	3 (+) <u>7</u> (–)			
F	6	2 1 2 1 2 1 2 2	INDEPENDENT UP	8 (+) 7 (-) 3 (+) 6 (-) 8 (+) 7 (-) 3 (+) 7 (-) 8 (+) 7 (-)			
G	7	1	INDEPENDENT	8 (+) 7 (-)			
	_	2	UP	3 (+) 7 (–)			
H U	Z Y	2	INDEPENDENT	8 (+) 7 (–) 8 (+) 7 (–)			
U	T	2	INDEPENDENT INDEPENDENT	8 (+) 7 (-) 10 (+) 9 (-)			
SINGLE	E POLE SW	ITCHES (10 (1) 0 ()			
J	8	1	DOWN	3 (+) 8 (-)			
K	w	2	INDEPENDENT INDEPENDENT	6 (+) 7 (-) 8 (+) 7 (-)			
ĸ	VV	2	INDEPENDENT	8 (+) 7 (–) 6 (+) 7 (–)			
DOUBL	DOUBLE POLE SWITCHES ONLY						
L.	9	1	DOWN	3 (+) 6 (-)			
M N	Ŗ	1	UP DOWN	3 (+) 6 (-) 3 (+) 6 (-)			
14	•	2	DOWN	1 (+) 4 (-)			
Р	V	1	UP	1 (+) 4 (-)			
		2	UP	3 (+) 6 (–)			

6,7 LAMP (SA Selection 6: at No lamp	ME CODING	FOR BOTH s 1 & 4; Sele	SELECTION ection 7: above	<mark>S)</mark> e terminals :	3 & 6
Neon Incandescent	1 125VAC 4 3V	2 250VAC 5 6V	6 12V	7 18V	8 24V
LED*			superbright	superbrigh	
2VDC	Red A	Amber L	Green F	Red R	
6VDC 12VDC	B C	M N	G H	S T	
24VDC	D	P	J	. V	
* Consult facto LED is 20ma.	iry ior dayligi	it bright LEI	options. Typ	icai current	uraw for

Orientation Lens Legend

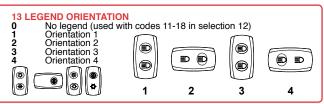
No Seal B W G One Seal C Y H	8 FLUSH B	RACKET	COLOR	¹ , PANEL SEAL	
		Black	White	Gray	
One Seal C Y H	No Seal	В	W	G ´	
	One Seal	С	Υ	Ĥ	

9 ACTUATOR No Actuator Contura V Contura V, laser etched

	Actuat		Z - No I Green		Blue	style & location: #1 / #2	
1	6	8	G	М	T	bar	
2	7	С	Н	N	U	bar/bar	
3	8	D	J	Р	٧	oval	
4	9	E	K	R	W	oval/bar	
5	Α	F	L	S	Υ	oval/oval	
Lens color for LEDs must be clear, white, or match color of LED. Green or blue lenses are not recommended with Neon lamps.							

11 ACTUAT	OR COL	OR 1,3,5	5				
No Actuator White	0 Y	Black Nickel	C	Gray Pewter	H E	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.

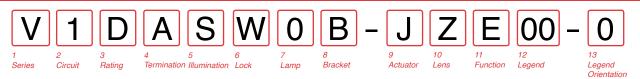
- Consult factory to verify horsepower rating for your particular circuit choice.

 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,
- 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 Connection bottom of st	witch: SP - s	single pole - uses termina	als 1, 2 & 3.
8 terminal 10 te		double pole uses terminal	
8 7 8 -	- 7 Termi	nals 7, 8, 9 & 10 for lam;	o circuit only.
14 1-	- 4		•
25 2-	- 5		
3 6 3 -	- 6		
10 -	- 9		
Position:	1	2	3
SP DP	2 & 3, 5 & 6	Connected Terminals	1 & 2, 4 & 5
1 A	ON	NONE	OFF
4 D	ŎŇ	NONE	ÓŃ
4 D 6 J	ÓN	OFF	ÓN
7 K	ŎŇ	ŎĖĖ	(ON)
8 L	(ON)	ŎFF	(ŎŃ)
9 N	OFF	NONE	'ON'

3 R	ATING ⁴
1	.4VA @ 28VDC Resistive
В	15A 24V
Ċ	20A 18V
Ď	20A 12V
Ĕ	20A 14V 10A 14VT (circuit 1 4 A & D only)
Ē	10A 14V, 6A 14VT (circuit G only)
	.4VA/20A 12V
Ň	
IN.	.4VA/15A 24V

4 TERMINATION / BASE STYLE BASE STYLE Termination .250 TAB (QC) no barriers .250 TAB (QC) with barriers .250 TAB (QC) no barriers Solder Lug no barriers Solder Lug Wire Leads no barriers Wire Leads 8 term 10 Term <u>Jumper</u> No No A J 3 C 5 E Ē Yes T2 to 5 No No No No No K 5 D 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 ILLUN Lamp # 3 & 6 er lamps o	MINATION 1:above ter nd of switch	& SWITCI minals 1 & Positive	H SEALING & 4 end of switch.; La (+) and negative (-)	amp #2 above terminals symbols apply to LED
Sealed	<u>Unsealed</u>	Lamps	Illumination Type	Lamp wired to Terminals
S	0	NONE		
S	3	2	UP	3 (+) 7 (-)
Ĥ	Ž	2	INDEPENDENT	3 (+) 7 (-) 8 (+) 7 (-)
DOUBL	E POLE SI	NITCHES	ONLY	- () ()
M	R	1	ÜP	3 (+) 6 (-)

DOUBLE F	POI F SW	ITCHES	ONLY	8 (+) 7 (-)
M	R	1	ÜP	3 (+) 6 (-)
6 LOCK Lock above	e terminals	s 1 & 4 e	nd of switch.	

high profile lock

low 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.

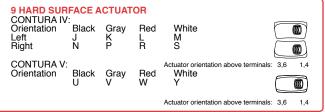
 Only available with 3 position circuits. Center OFF and special circuits only available with center position lock function.

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

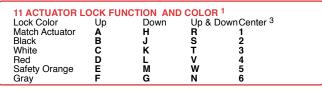
 Contura V style only.

7 LAMP Lamp above te No lamp	erminals 3 & 6	6 end of swite	ch		·
Neon	1 125VAC	2 250VAC			
			0 10)/	7 401/	0041
Incandescent	4 3V	5 6V	6 12V	7 18V	8 24V
I FD*			superbright	superbrigh	t
	Red	Amber	Green	Red	•
01/00		AIIIDGI	<u>areen</u>		
2VDC	Α	L	F	R	
6VDC	В	М	G	S	
12VDC	č	Ni	ŭ	Ť	
	_	IN .			
24VDC	D	P	J	V	
* Consult facto	ry for "daylig	ht briaht" I Fl	Ontions Tyr	ical current	draw for
LED is 20ma.	iy ioi aayiigi	in brigin LL	optiono. Typ	nour ourrorn	aratt ioi
LLD is 2011a.					

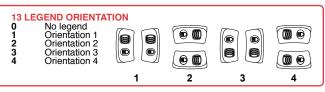
8 FLUSH I No Seal One Seal	BRACKET Black B C	COLOR 1 White W Y	, PANEL SEAL Gray G H					
9 HARD S	9 HARD SURFACE ACTUATOR							



10 LE Z - No Clear A G	Lens	Amber C J	Green D K	E	F	e bar lens oval lens
						or match color of LED. led with Neon lamps.







Lamp

Bracket



Actuator

Lens

Lens

Color

1 SERIES

Circuit

Ratina

2 CIRCUIT () - momentary Terminal Connections as viewed from bottom of switch: SP - single pole - uses terminals 1, 2 & 3. 8 terminal 10 terminal

8 - -7

8 - 7

8 - 7

8 - 7

8 - 7 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 ABCDFJKL 12345678 NONE (OFF) NONE NONE OFF OFF 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 1 & 2 OFF 5 & 6 5 & 3 5 & 1 *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.

Termination Illumination Lamp

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

<u>Jumper</u> No No 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 Illumination Type Lamp wired to Terminals 8 (+) 7 (-3 (+) 7 (-3 (+) 7 (-3 (+) 7 (-1 (+) 7 (-1 (+) 7 (-3 (+) 7 (-8 (+) 7 (-8 (+) 7 (-8 (+) 7 (-8 (+) 7 (-8 (+) 7 (-INDEPENDENT BCD 2 3 4 DOWN UP DOWN DOWN UP UP Ε 5 F 6 INDEPENDENT G 7 **INDEPENDENT INDEPENDENT** H INDEPENDENT INDEPENDENT SINGLE POLE SWITCHES ONLY DOWN INDEPENDENT INDEPENDENT INDEPENDENT Κ W DOUBLE POLE SWITCHES ONLY
L 9 1 DOWN
M R 1 UP 3 (+) 6 (-) 3 (+) 6 (-) 1 (+) 4 (-) 1 (+) 4 (-) M N R DOWN DOWN UP UP Р ٧

6,7 LAMP Lamp above terminals 3 & 6 end of switch No lamp 0 No làmp 1 125VAC 4 3V 2 250VAC 5 6V Neon Incandescent 6 12V 7 18V superbright Red superbright Green **F** LED' Red Amber 2VDC A R M 6VDC 12VDC Ν 24VDC **Consult factory for "daylight bright" LED options. Typical current draw for LED is 20ma.

Actuator

Legend

Actuator Orientation Lens Legend

Insert

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

9 ACTUATOR No Actuator H High Insert

3 L Low Insert

10,11 LENS 0 - No Actuator Z - No Lens Clear White Amber Green Red Blue С н Ν U Bar Lens Translucent 3 D P Bar Lens Transparent 4 Ε Κ R W 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.

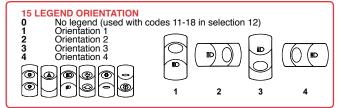
12 ACTUATOR COLOR H Gray

S Red Y White

13 INSERT COLOR Black Bright Chrome Plated Satin Chrome Painted

Bright Nickel Plated Satin Chrome Plated Satin Nickel Plated w White

14 ACTUATOR LENS OR BODY LEGENDS 2 00 - No Legend this location/No actuator 11 ON 12 OFF 13 I **14** O OFF ON 0 15 00 1600 FN N F 17 OI 18 I O For additional legend options & codes, visit us at www.carlingtech.com.



16 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.

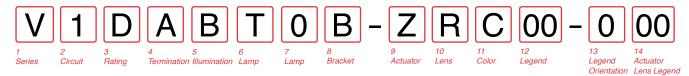
Notes

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

Custom colors are available. Consult factory

Custom could are available. Consult ractory. White imprinting is standard on black actuators. Black 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.

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



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 2 Connected Terminals NONE NONE NONE 3 1 & 2, 4 & 5 OFF OFF (OFF) Position: SP DP 2 & 3, 5 & 6 ON (ON) ON ON 2 3 4 5 6 7 BCDF NONE 7 L ON SPECIAL CIRCUITS H* 2&3 G* 2&3,5&6 S* 2&3,5&6 M* (2&3,5&6) R* (2&3,5&6) E* 5&6 OFF (ON) 2 & 3, 5 & 4 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 7 .4VA @ 28VDC Resistive 15A 24V 20A 18V 20A 18V 20A 14V, 10A 14VT (circuit 1, 4, A & D only) 10A 14V, 6A 14VT (circuit G only) .4VA/20A 12V

	N / BASE STYLE	lumnar
8 term 10 Terr	n <u>Termination</u> .250 TAB (QC) no barriers	<u>Jumper</u> No
! 4		
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	Wire Leads no barriers	No
E F	Wire Leads	No
Note: Codes 10	V for circuita II C 0 M Do not	aa 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 of <u>Sealed</u>	Sealed Unsealed Lamps Illumination Type Lamp wired to Terminals O NONE – – –								
A B	1 2	1	INDEPENDENT DOWN	8 (+) 7 (-) 3 (+) 7 (-)					
B C D	2 3 4	2 1 2	UP DOWN DOWN	3 (+) 7 (-) 3 (+) 7 (-) 1 (+) 7 (-)					
E	5	1 2 1	UP UP	1 (+) 7 (-) 3 (+) 7 (-)					
F	6		INDEPENDENT UP	8 (+) 7 (-) 3 (+) 6 (-)					
G	7	1	INDEPENDENT UP	3 (+) 7 (-) 8 (+) 7 (-) 3 (+) 6 (-) 8 (+) 7 (-) 3 (+) 7 (-)					
H	Z Y	2 1 2 2 1 2	INDEPENDENT INDEPENDENT INDEPENDENT	8 (+) 7 (-) 8 (+) 7 (-) 8 (+) 7 (-) 10 (+) 9 (-)					
		WITCHES (ONLY						
J K	8 W	1 2	DOWN INDEPENDENT INDEPENDENT	3 (+) 8 (-) 6 (+) 7 (-) 8 (+) 7 (-)					
		2 SWITCHES	INDEPENDENT	6 (+) 7 (-)					
L	9	1	DOWN	3 (+) 6 (-)					
M N	Ŗ	1	UP DOWN	3 (+) 6 (-)					
IN	ı	2	DOWN	3 (+) 6 (-) 1 (+) 4 (-)					
Р	V	1 2	UP UP	1 (+) 4 (-) 3 (+) 6 (-)					

6,7 LAMP (sar Selection 6: at No lamp	me coding fo	or both sele s 1 & 4; Sele	ctions) ection 7: above	e terminals	3 & 6
Neon	1 125VAC	2 250VAC			
Incandescent	4 3V	5 6V	6 12V	7 18V	8 24V
LED*			superbright	superbrigl	ht
	Red	Amber	Green	Red	
2VDC	Α	L	F	R	
6VDC	В	М	G	S	
12VDC	Ċ	Ñ	Ĥ	Ť	
24VDC	Ď	P	J	V	
* Consult facto LED is 20ma.	ry for "dayligl	ht bright" LE	D options. Typ	ical current	t draw for
LED is 20ma.					

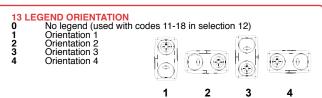
8 FLUSH E No Seal One Seal	BRACKET Black B C	COLOR 1 White W Y	Gray G H	L

P ACTUATOR No Actuator Contura VII Actuator orientation above 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							
	Amber			Blue	Lens style & location		
6	В	G	M	Т	\bigcirc		
7	С	Н	N	U	00		
8	D	J	Р	٧	000		
9	E	K	R	W	00		
Α	F	L	s	Υ	<u> </u>		
1	2	3	4	5	00		







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.

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

- suit factory to veriny forsepower fating for your particular circuit croice.

 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 Y-Series Switch Accessories page.

 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 ⁴ 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 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
3 5	Solder Lug no barriers	No
C 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 us	se silicone based
lubricants to reduc	e terminal insertion forces during	g connector assembly,
as it is detrimental	to function and performance.	<i>5</i>

5 ILLU Lamp # 3 & 6 e	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 S A B C D	Unsealed 0 1 2 3 4	Lamps NONE 1 1 2	Illumination Type INDEPENDENT DOWN UP DOWN DOWN DOWN	Lamp wired to Terminals - 8 (+) 7 (-) 3 (+) 7 (-) 3 (+) 7 (-) 3 (+) 7 (-)			
E	5	2 1 2 1 2	UP UP	1 (+) 7 (-) 1 (+) 7 (-) 3 (+) 7 (-)			
F	6	1 2	INDEPENDENT UP	8 (+) 7 (-) 3 (+) 6 (-)			
G	7		INDEPENDENT UP	8 (+) 7 (-) 3 (+) 6 (-) 8 (+) 7 (-) 3 (+) 7 (-) 8 (+) 7 (-)			
H	Z Y	2 2 1 2	INDEPENDENT INDEPENDENT INDEPENDENT	8 (+) 7 (-) 8 (+) 7 (-) 10 (+) 9 (-)			
SINGL	E POLE SW	ITCĒES (DNLY	- (/ - (/			
J	8	1	DOWN	3 (+) 8 (-)			
Κ	w	2 1 2	INDEPENDENT INDEPENDENT INDEPENDENT	6 (+) 7 (-) 8 (+) 7 (-) 6 (+) 7 (-)			
DOUBL	LE POLE SV	VITCHES					
L M	9 R	1	DOWN UP	3 (+) 6 (-) 3 (+) 6 (-)			
Ň	Ť	į	DOWN	3 (+) 6 (-)			
Р	V	2 1 2	DOWN UP UP	1 (+) 4 (-) 1 (+) 4 (-) 3 (+) 6 (-)			

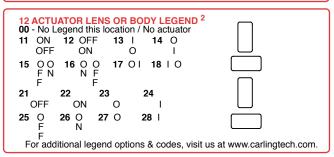
6,7 LAMP (sar Selection 6: ab No lamp				e terminals (3 & 6
Neon '	1 125VAC	2 250VAC			
Incandescent	4 3V	5 6V	6 12V	7 18V	8 24V
LED*			superbright	superbrigh	nt
	Red	Amber	Green	Red	
2VDC	Α	L	F	R	
6VDC	В	M	G	S	
12VDC	С	N	Н	Т	
24VDC	D	P	J	V	
*Consult factory	for "daylight	bright" LED.	Typical current	draw for LEI	O is 20ma

# of gaskets 0 1 2 0 1 Black B C D 1 4 White W Y Z 2 5 Gray G H J 3 6	

9 ACTUATOR No Actuator	0 Black	Grav	White	Red			
Contura X Contura XI Contura XII	1 6 J	2 7 K	3 8 N	4 9 M	\mathcal{L}		
Actuator orientation above terminals: 3,6 1,4							

11 LEI	10 LENS - ABOVE LAMP #1 TERMINALS ^{1,4} 11 LENS - ABOVE LAMP #2 TERMINALS ^{3,6} 0 - No Actuator Z - No Lens									
Clear		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	M	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.



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 Ā 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 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 / 8 term 10 Term 1 2 **BASE STYLE** BASE STYLE Termination .250 TAB (QC) no barriers .250 TAB (QC) with barriers .250 TAB (QC) no barriers Solder Lug no barriers Solder Lug Wire Leads no barriers Wire Leads Jumper No B K 5 D Yes T2 to 5 No J3C5E No Wire Leads Nο

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 or Sealed	Unsealed	<u>Lamps</u>	Illumination Type	Lamp wired to Termi-				
<u>nals</u> S C H	0 3 Z	NONE 2 2	– UP INDEPENDENT	- 3 (+) 7 (-) 8 (+) 7 (-)				
DOUBLI M	POLE SV R	VITCHES (1	ONLY UP	3 (+) 6 (–)				

6 LOCK Lock above terminals 1 & 4 end of switch. W 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; 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: ab No lamp	0		ctions) ection 7: above	e terminals	3 & 6
Neon	1 125VAC	2 250VAC	C 40\/	7.40\/	0.041/
Incandescent LFD*	4 3V	5 6V	6 12V	7 18V	. 8 24V
LED.	Red	Amber	superbright Green	superbrig Red	nτ
2VDC	A	Allibei I	F	R	
6VDC	Ê	м	Ġ	<u>"</u>	
12VDC	č	Ň	H	ř	
24VDC	Ď	P	ii .	v	
* Consult facto LED is 20ma.	ry for "dayligl	nt bright" LEI	D options. Typ	oical curren	t draw for

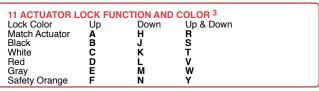
8 FLUSH BRACKET COLOR ¹ , PANEL SEAL Black White Gray No Gasket 1 2 3 One Gasket 4 5 6	
9 HARD SURFACE ACTUATOR Contura Y Black Gray Red White	

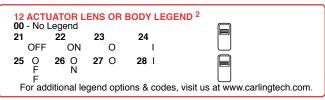
0	Divi	0	Б	140.21			
Contura X	Віаск 1	2	3	White 4			
Actuator orientation above terminals: 3,6 1,4							
ACLENO ABOVE LAMB TO TERMINAL OF							

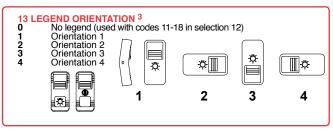
10 LENS - ABOVE LAMP #2 TERMINALS ⁵ Z - No Lens								
Clear	White	Amber	Green	Red	Blue	Lens Style		
3	8	D	J	P	٧	Bar		
4	9	E	K	R	W	One piece Square		
5	Α	F	L	S	Υ	Two piece Square*		
						(with clear top protective lens)		
2	7	С	Н	N	U	Two piece Square*		
						(with smoke top protective lens)		
1	6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

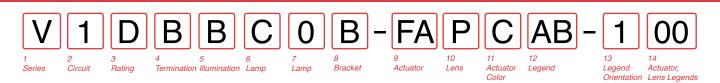
other lens colors

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









```
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.
   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
                                                                      OFF
                                     2 & 3
                                                               2 & 3, 5 & 4
2 & 3
2 & 3
2 & 3
 H'
                              2 & 3, 5 & 6
(2 & 3, 5 & 6)
(2 & 3, 5 & 6)
 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.
```

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

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 4	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 I & 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.

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

lamp	os only		, () - ,
	Lamps NONE	Illumination Type	Lamp wired to Terminals
S A B C D	NONE	- INDEPENDENT	- 0(:)7()
A	1	DOWN	8 (+) 7 (–) 3 (+) 7 (–)
č	2	UP	8 (+) 7 (-) 3 (+) 7 (-) 3 (+) 7 (-) 3 (+) 7 (-)
Ď	1	DOWN	3 (+) 7 (-)
_	2	DOWN	1 (+) <u>7</u> (–)
E	1	UP UP	1 (+) 7 (-) 3 (+) 7 (-)
F	2 1 2 1 2 1 2	INDEPENDENT	3 (+) 7 (-) 8 (+) 7 (-) 3 (+) 6 (-) 3 (+) 7 (-) 3 (+) 7 (-)
•	2	UP	3 (+) 6 (-)
G	1	INDEPENDENT	8 (+) 7 (-)
	2	UP	
H		INDEPENDENT ITCHES ONLY	8 (+) 7 (–)
J	GLE FOLE SN 1	DOWN	3 (+) 8 (-)
·	ż	INDEPENDENT	3 (+) 8 (-) 6 (+) 7 (-)
K	1	INDEPENDENT	8 (+) 7 (–)
501	2	INDEPENDENT	6 (+) 7 (–)
וטטנ	JBLE POLE SI	WITCHES ONLY DOWN	3 (+) 6 (-)
м	1	UP	
Ñ	i	DOWN	3 (+) 6 (-) 3 (+) 6 (-) 1 (+) 4 (-)
	2	DOWN	1 (+) 4 (-)
Р	2 1 2 1	UP	1 (+) 4 (-)
U	2	UP INDEPENDENT	3 (+) 6 (-) 8 (+) 7 (-)
U	2	INDEPENDENT	8 (+) 7 (–) 10 (+) 9 (–)
		IIIDEI ENDENI	10 (1) 0 ()

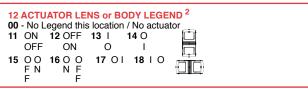
6 & 7 LAMP No lamp Neon Incandescent LED*	0 1 125VAC 4 3V	2 250VAC 5 6V	6 12V superbright	7 18V 8 24V superbright
	Red	Amber	Green	Red
2VDC	Α	L	F	R
6VDC	B	M	G	S
12VDC	С	N	Н	Т
24VDC	D	P	J	V
* Consult facto LED is 20ma.	ry for "dayligl	nt bright" LEI	O options. Typ	ical current draw for

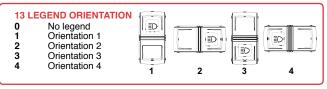
Color No Gasket 1 Gasket 2 Gasket	
Black B C D	
Gray G H J	
White W Y Z	

9 ACTUATOR STYLE O No Actuator - Furnished separately FΑ Contura XIV FΒ Contura XIV - Laser Etched

0 - No	Actuate	LOR/S or Amber B	Z - No I Green G	Red M	Blue T	·		
2	7	С	Н	N	U	<u></u>		
3	8	D	J	Р	٧			
4	9	E	K	R	W			
5	Α	F	L	S	Υ			
5	Α	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.							







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.

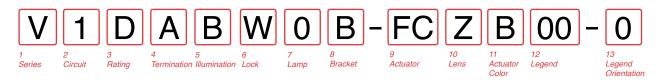
Consult factory to verify horsepower rating for your particular circuit choice.

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.



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 ÓN NONE OFF 1 В (ON) NONE OFF 4 D NONE 6 ON OFF ON 7 8 K L ON OFF (ON) (ON) (ON) OFF 9 Ν NONE

SPECIAL CIRCUITS Н* 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 ³

.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 .250 TAB (QC) no barriers Yes T2 to 5

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.

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



10 LENS COLOR / STYLE

Z - No Lens Z No Lens Clear White Amber Green Red Blue M T 6 В М of O 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 Red D 4 Ē 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

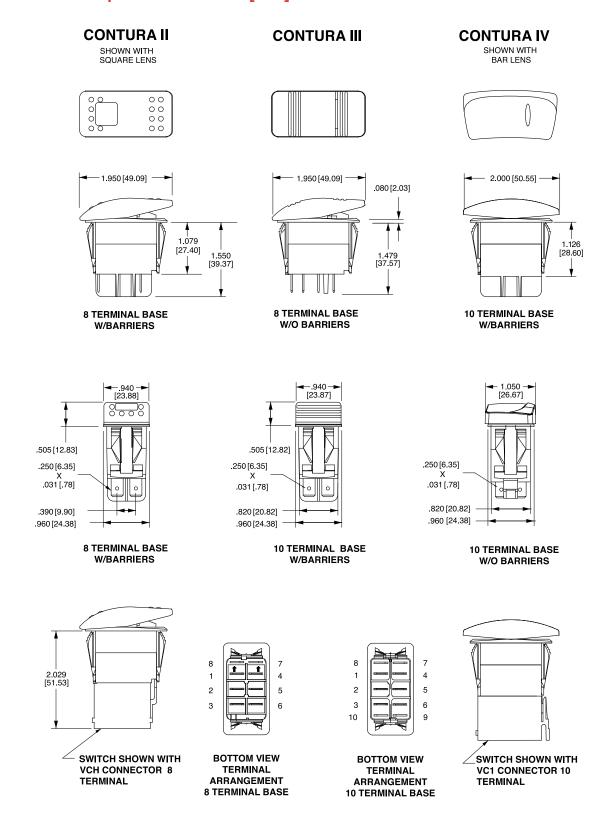
0 No legend Orientation 1 Orientation 2 3 Orientation 3 Orientation 4



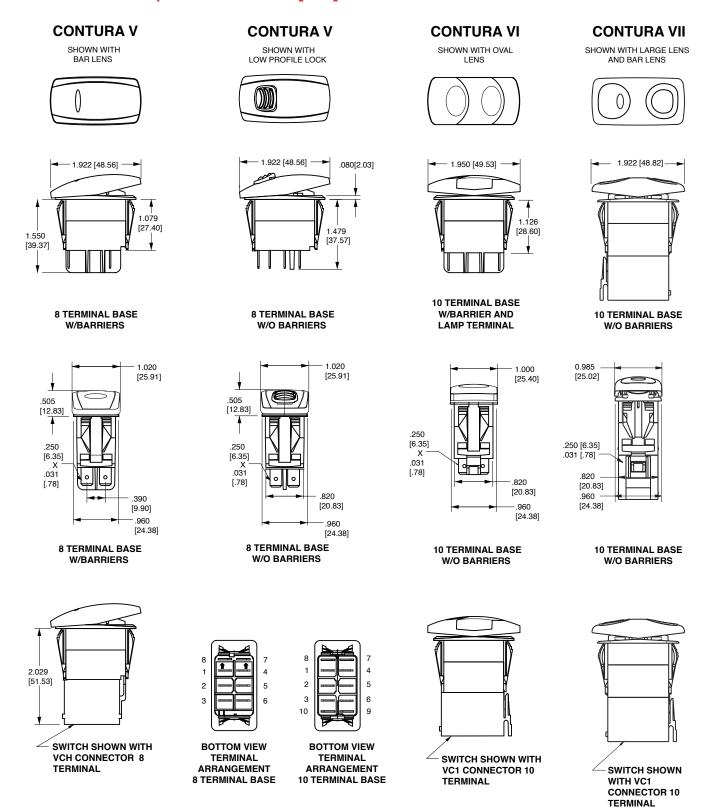




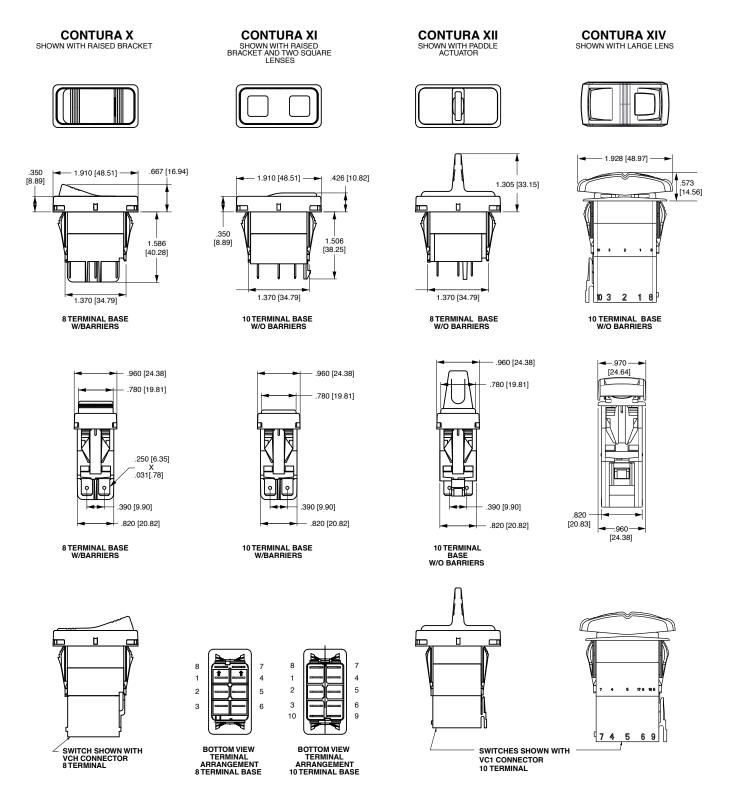
Dimensional Specifications: in. [mm]



Dimensional Specifications: in. [mm]

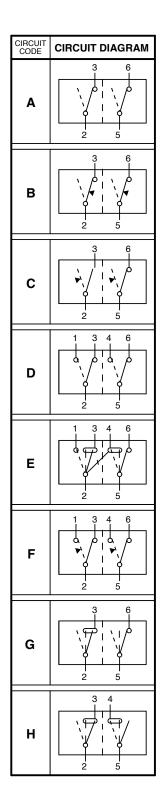


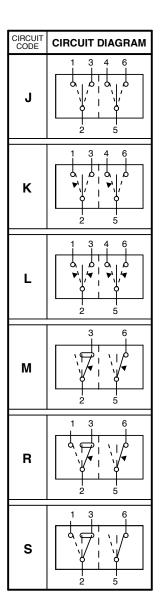
Dimensional Specifications: in. [mm]



Circuit Diagrams:

CIRCUIT CODE	CIRCUIT DIAGRAM
1	3
2	3
3	3
4	1 3
5	1 3
6	
7	2
8	1 3 Q P P P P P P P P P P P P P P P P P P





	SYMBOL LEGEND							
SYM.	DEFINITION							
0	DESIGNATES TERMINALS AND CONTACTS							
— •	DESIGNATES MAINTAINED CIRCUITS							
	DESIGNATES OTHER POSITION							
o.▼ o	DESIGNATES MOMENTARY CIRCUITS							
0	DESIGNATES TWO POSITION CONNECTION							
	DESIGNATES EXTERNAL JUMPER PROVIDED BY CUSTOMER							

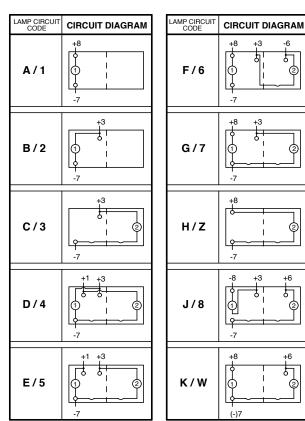
0

7

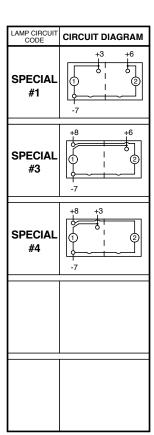
7

Ħ **ø**

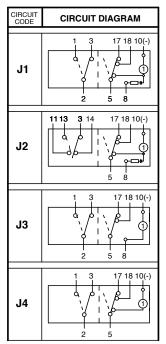
Lamp Circuit Diagrams:

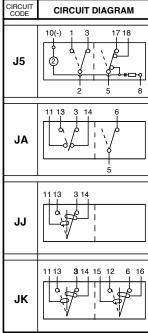


LAMP CIRCUIT CODE	CIRCUIT DIAGRAM
L/9	+3 -6
M/R	+3 -6
N/T	1 +3 -4 -6
P/V	1 +3 -4 -6
U/Y	+8 +10



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				
Ō	DESIGNATES LAMP LOCATION				

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 ACTUATO	R STYLE 8	COLOR			
Contura X Contura XI	Black 1 6	Gray 2 7	White 3 8	Red 4 9	
Contara 7ti		•			

3 LENS OPENING FOR 1

two square lens

- One bar lens One bar lenses One 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 OI 18 I O

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
- ĨD ≣D



2





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



1 TOP OF LENS SEPARATELY COLOR 2 Smoke 3 White 1 Clear

Contura X, XI & XII actuator lens assembly:

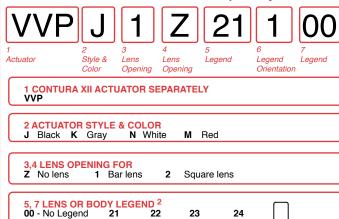


1 piece lens/bar lens are positioned the same as bottom lens for assembly, minus the top lens. Lenses snap in from bottom.

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
- 0 No legend
- Orientation 1
- 1 Orientation 1 2 Orientation 2



Contura X, XI & XII actuator lens assembly separately:



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



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

5 LEGEND ORIENTATION 3

Orientation 4

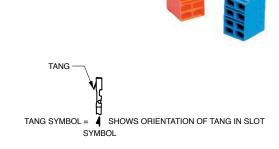
- 0 No legend Orientation 1 1 2 3 4 Orientation 2 Orientation 3
- ≣D. 1
- 2
- (ID) (ID) 3

4

Easily integrate Contura products into your system, with Contura Accessories

Contura Connectors

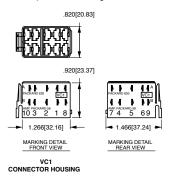
Q.C. SELECTION GUIDE							
	PART	NO	W RA				
COMPANY SERIES	PLAIN BRASS	TIN PLATED BRASS	AWG	MM ² (REF)	ORIEN- TATION		
	02965580		12	3.0			
	02965471	12010601	(2)16-14	(2)1.0-2.0			
PACKARD 58 SERIES	02965470		16-14	1.0-2.0	В		
30 OLI IILO	02965469	06288318	20-18	.58			
		12084590	10	5.0			
		12052224	12	3.0			
PACKARD		12015870	16-14	1.0-2.0			
METRI-PACK		12020035	(2)22-18	(2).58	Α		
630 SERIES	12015832	12015869	20-18	.58			
		12052222	20-22	.355			
	60253-1	60253-2	16-12	1.3-3			
AMP 250 SERIES	00253-1	00233-2	(2) 16	(2) 1.3	_		
FASTIN-FASTON	42100-1	42100-2	18-14	.8-2	В		
	60295-1	60295-2	22-18	.39			

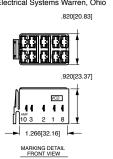


NOTE: Consult Delphi Packard and/or Amp on actual part numbers and availability.

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

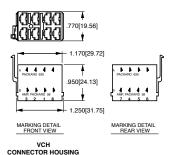
Delphi Packard is a registered trademark of Delphi-Packard Electrical Systems Warren, Ohio





VC2 CONNECTOR HOUSING (For AMP terminals only)

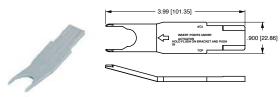




Contura X Boot (P/N VB1-01)



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



Additional V-Series Ratings

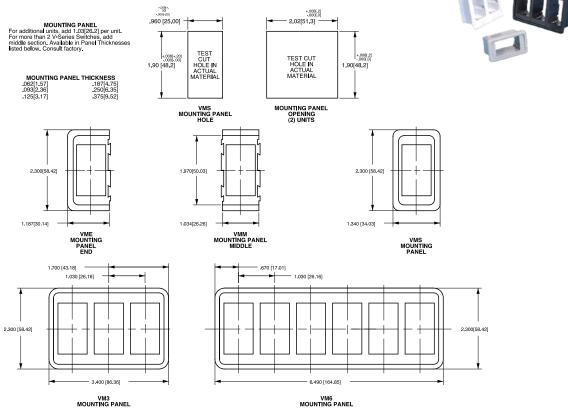
- .4VA @ 28VDC Resistive
- 10A 250VAC 1/2 HP, 15A 125 VAC 1/2 HP, No Agency Listings
- 10A 250VAC 1/2 HP, 15A 125 VAC 1/2 HP, UL Recognized, CSA Certified
 - 15A 24V
- 20A 18V
- 20A 12V
- Е 20A 14V, 10A 14VT (circuits 1, 4, A, & D only)
- 10A 14V, 6A, 14VT (circuit G only)
- G 20A 6V 20A 3V
- 15A 125 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

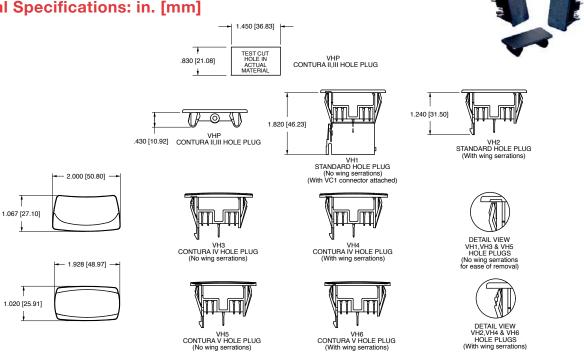
Consult factory to determine availability for individual circuits and their HP rating.

- 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]



Authorized Sales Representatives and Distributors

Click on a region of the map below to find your local representatives and distributors or visit www.carlingtech.com/findarep.



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

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