

V-Series Contura Switches

Product Highlights:

- ♦ Maximum sealing protection with dual seals around lamps and rocker stem, certified to IP66 & IP68. Optional panel seals for additional protection.
- ♦ Silver plated butt contact mechanism provides 50 to 100 thousand electrical cycles and a variety of different electrical ratings.
- ♦ Roller pin mechanism does not require lubricants and allows the switch to withstand extreme temperatures.
- ♦ The switch base accommodates up to 10 terminals and a large variety of switch and lighting circuits.
- ♦ The multi-step mounting wings provide a secure fit for panel thicknesses of 0.032" thru 0.250" in an industry standard 0.830" x 1.450" mounting hole.
- ♦ The switch connector allows the user to preload FQC terminals for easy assembly to switch base.
- ♦ Numerous choices of removable rockers allow for style change without having to retest or re-qualify the switch base.
- ♦ Illumination options are endless with bar, oval, and square lenses available with choices of incandescent, neon and a wide variety of LEDs including superbrite, megabrite, flashing and bicolor lighting.
- ♦ Available with a variety of complimentary mounting panels, hole plugs, illuminated indicators and boots to accommodate most any design need.



CONTURA III



CONTURA II



CONTURA V



CONTURA VII

Carling Technologies' fully 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 810C, UL 1500, ISO 8846, IEC 60529 and BS 5490 among others, making them one of the most rugged and reliable switches ever manufactured.



Carling Technologies™

Innovative Designs. Powerful Solutions.

Carling Technologies, Inc.
60 Johnson Avenue, Plainville, CT 06062
Email: sales@carlingtech.com
Application Support: team2@carlingtech.com
Phone: (860) 793-9281 • Fax: (860) 793-9231
www.carlingtech.com

V-Series Switch

DESIGN FEATURES

INTERCHANGEABLE ACTUATORS

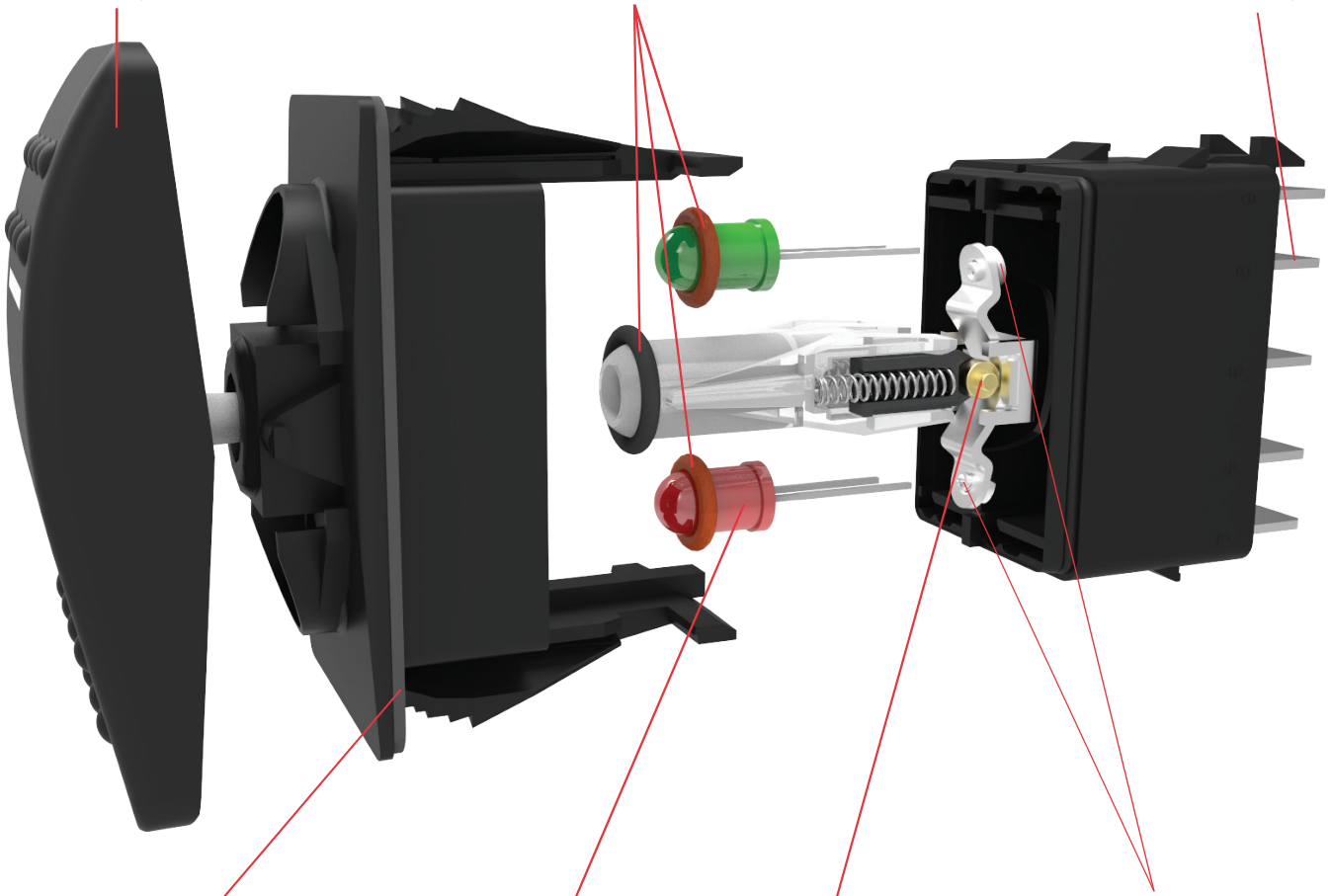
Panel redesign is a snap with our wide range of rocker styles. Achieve maximum design variety with minimum inventory. Simply swap rockers to create an entirely new look for your panel.

DUAL SEAL PROTECTION

Seals out water, dust, debris, and enables switch certification to IP66/IP68 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 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.



V-Series Illuminated Indicators & Accessories

Alert operator of systems functions or malfunctions, are offered with removable/replaceable lamps in Contura II, IV, 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 |
| Dielectric Strength | 1500 Volts RMS |
| 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

| | |
|-----------|--|
| Endurance | 150,000 cycles minimum circuit dependent |
|-----------|--|

Physical

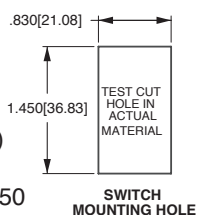
| | |
|---------------------------------------|---|
| Lighted | Incandescent - rated 10,000 hours Neon - rated 25,000 hours LED - rated 100,000 hours 1/2 life (LED is internally ballasted for voltages to 24VDC) |
| Seals | Internal Optional external gasket panel seal |
| Base | Polyester blend rated to 125°C with a UL flammability rating of 94V0. |
| Contura II,III,IV,V, VI, VII Actuator | Hard Surface: Basic 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 |
| Lens | Polycarbonate rated at 100°C |
| Contura XIV | Polycarbonate lens/subrocker with ABS shell |

Actuator Travel (Angular Displacement)

| | |
|-------------|----------------|
| 2 position | 18° |
| 3 positions | 9° from center |

Mounting Specifications

| | |
|---|---|
| Panel Thickness Range | |
| Gaskets Acceptable Panel Thickness | |
| 0 | .030 to .250 (.76mm to 6.35mm) |
| 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



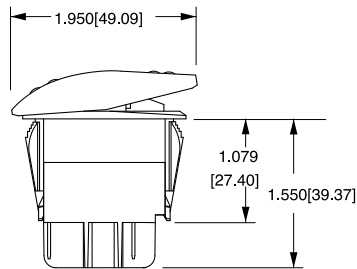
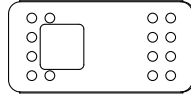
Environmental

| | |
|---------------------|---|
| Sealing | Sealed version: IP68, in accordance with IEC 60529, BS 5490, DIN 40050 & NFC 20 010. This rating applies to front panel components of the actual switch only, and signifies protection against dust and the prolonged effects of immersion under pressure. The standard test for immersion under pressure requires submersion under one meter of water for 30 min. The V-Series switch has exceeded these parameters, having been actuated and illuminated during submersion. |
| Corrosion | Mixed Flowing Gas (MFG) Class III 3 year accelerated exposure per ASTM B-827, B-845 Silver and gold contacts |
| Operating Temp. | -40°C to + 85°C |
| Vibration 1 | Per Mil-Std 202F, Method 204D 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. |
| Shock | 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. |
| Dust | Per Mil-Std 810C, Method 510.2 Air Velocity 300 ±200 Feet/Min, Test Duration 16 Hrs. |
| Thermal Shock | Per Mil-Std 202F, Method 107F, Test Cond. A, -55°C to 85°C. Test criteria - pre and post test contact resistance |
| Moisture 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. |

Dimensional Specifications: in. [mm]

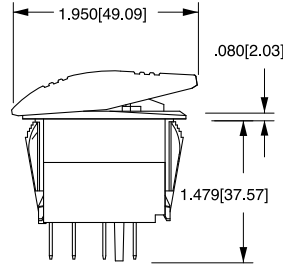
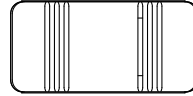
CONTURA II STYLE

SHOWN WITH
SQUARE LENS



**8 TERMINAL BASE
W/BARRIERS**

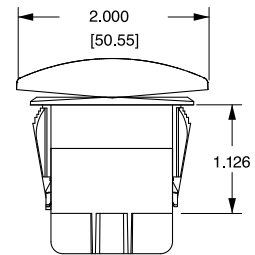
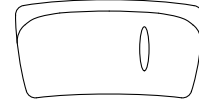
CONTURA III STYLE



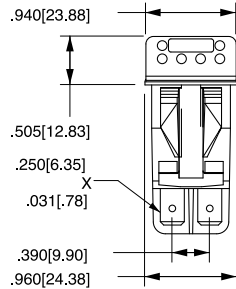
**8 TERMINAL BASE
W/O BARRIERS**

CONTURA IV STYLE

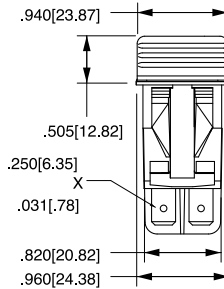
SHOWN WITH
BAR LENS



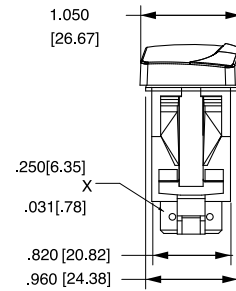
**10 TERMINAL BASE
W/BARRIERS**



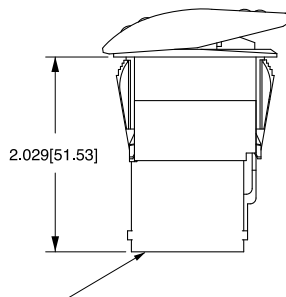
**8 TERMINAL BASE
W/BARRIERS**



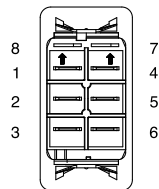
**10 TERMINAL BASE
W/BARRIERS**



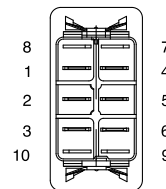
**10 TERMINAL BASE
W/O BARRIERS**



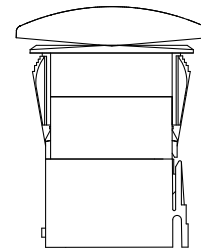
**SWITCH SHOWN WITH
VCH CONNECTOR 8
TERMINAL**



**BOTTOM VIEW
TERMINAL
ARRANGEMENT
8 TERMINAL BASE**



**BOTTOM VIEW
TERMINAL
ARRANGEMENT
10 TERMINAL BASE**

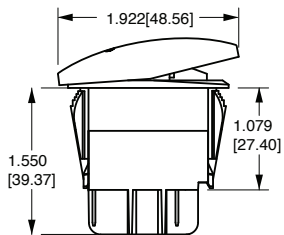
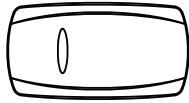


**SWITCH SHOWN WITH
VC1 CONNECTOR 10
TERMINAL**

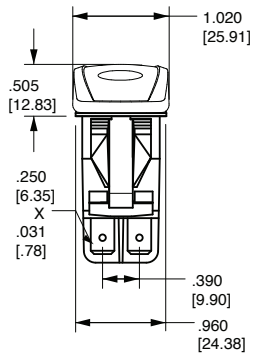
Dimensional Specifications: in. [mm]

CONTURA V

SHOWN WITH
BAR LENS



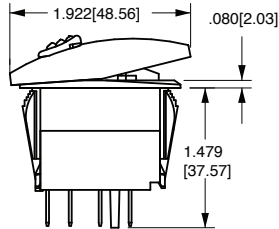
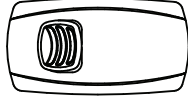
**8 TERMINAL BASE
W/BARRIERS**



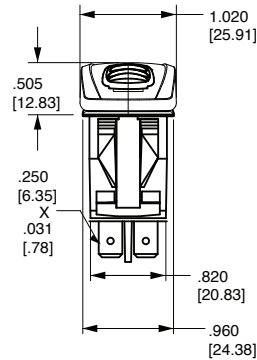
**8 TERMINAL BASE
W/BARRIERS**

CONTURA V

SHOWN WITH
LOW PROFILE LOCK



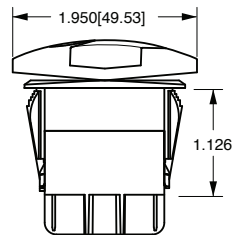
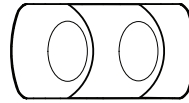
**8 TERMINAL BASE
W/O BARRIERS**



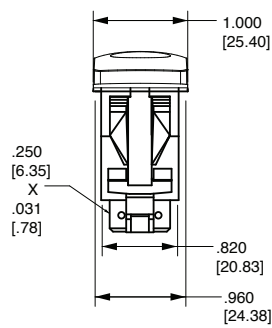
**8 TERMINAL BASE
W/O BARRIERS**

CONTURA VI

SHOWN WITH OVAL
LENS



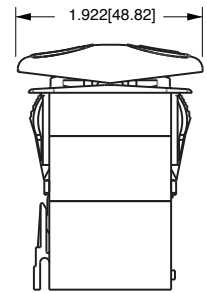
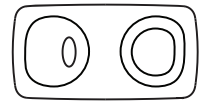
**10 TERMINAL BASE
W/BARRIER AND
LAMP TERMINAL**



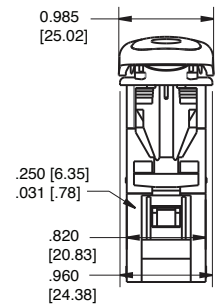
**10 TERMINAL BASE
W/O BARRIERS**

CONTURA VII

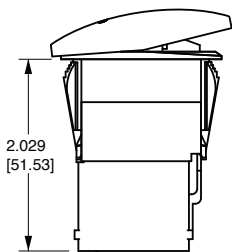
SHOWN WITH LARGE LENS
AND BAR LENS



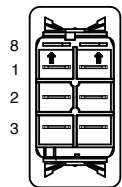
**10 TERMINAL BASE
W/O BARRIERS**



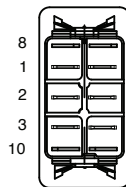
**10 TERMINAL BASE
W/O BARRIERS**



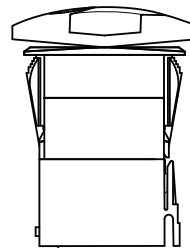
SWITCH SHOWN WITH
VCH CONNECTOR 8
TERMINAL



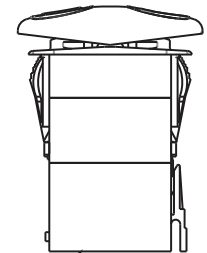
**BOTTOM VIEW
TERMINAL
ARRANGEMENT
8 TERMINAL BASE**



**BOTTOM VIEW
TERMINAL
ARRANGEMENT
10 TERMINAL BASE**



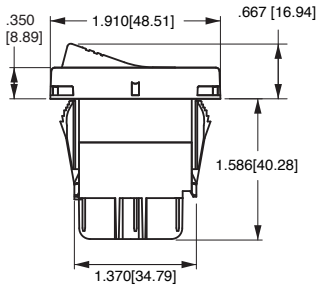
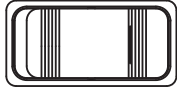
SWITCH SHOWN WITH
VC1 CONNECTOR 10
TERMINAL



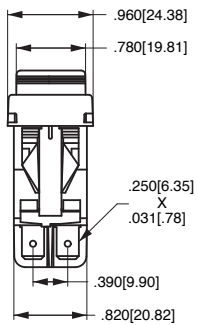
SWITCH SHOWN
WITH VC1
CONNECTOR 10
TERMINAL

Dimensional Specifications: in. [mm]

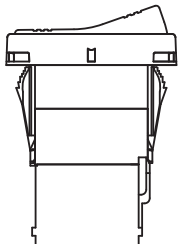
CONTURA X STYLE SHOWN WITH RAISED BRACKET



8 TERMINAL BASE
W/BARRIERS

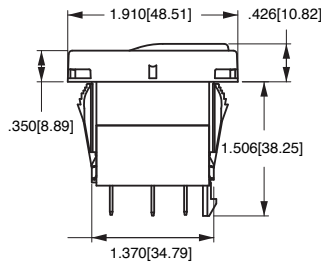


8 TERMINAL BASE
W/BARRIERS

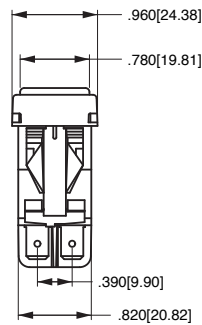


SWITCH SHOWN WITH
VCH CONNECTOR
8 TERMINAL

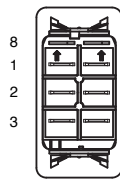
CONTURA XI STYLE SHOWN WITH RAISED BRACKET AND TWO SQUARE LENSES



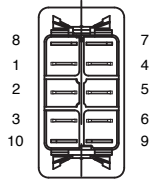
10 TERMINAL BASE
W/O BARRIERS



10 TERMINAL BASE
W/BARRIERS

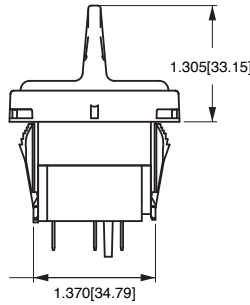
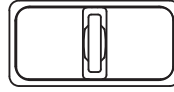


BOTTOM VIEW
TERMINAL
ARRANGEMENT
8 TERMINAL BASE

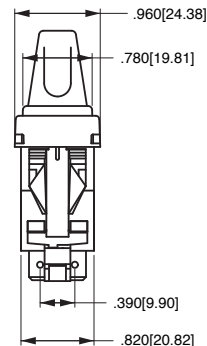


BOTTOM VIEW
TERMINAL
ARRANGEMENT
10 TERMINAL BASE

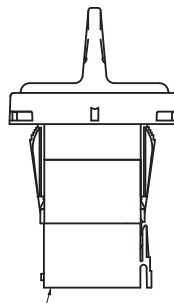
CONTURA XII STYLE SHOWN WITH PADDLE ACTUATOR



8 TERMINAL BASE
W/O BARRIERS

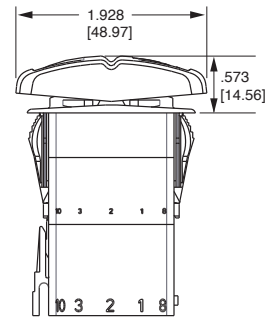
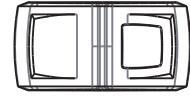


10 TERMINAL
BASE
W/O BARRIERS

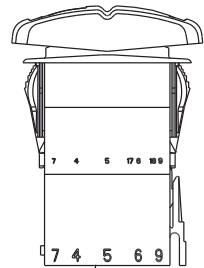
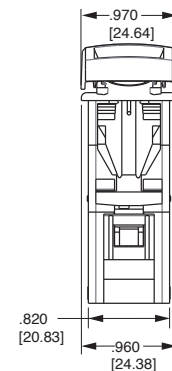


SWITCHES SHOWN WITH
VC1 CONNECTOR
10 TERMINAL

CONTURA XIV STYLE SHOWN WITH LARGE LENS



10 TERMINAL BASE
W/O BARRIERS



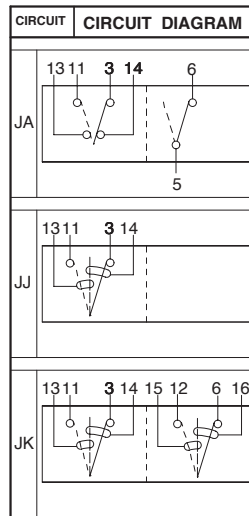
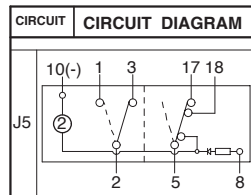
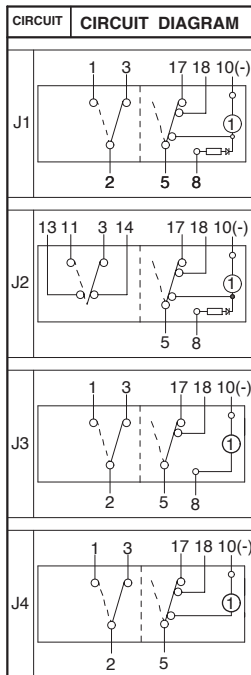
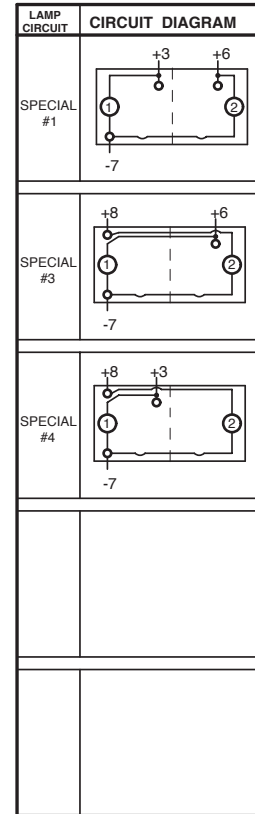
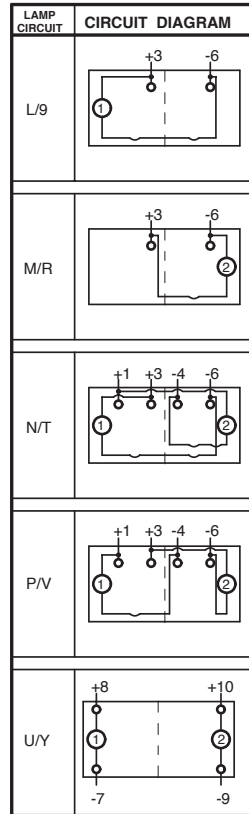
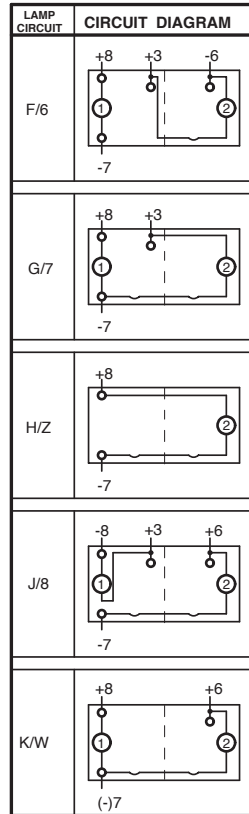
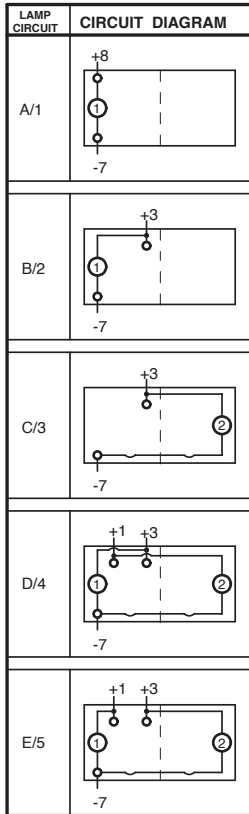
SWITCHES SHOWN WITH
VC1 CONNECTOR
10 TERMINAL

| CIRCUIT | CIRCUIT DIAGRAM |
|---------|-----------------|
| 1 | |
| 2 | |
| 3 | |
| 4 | |
| 5 | |
| 6 | |
| 7 | |
| 8 | |

| CIRCUIT | CIRCUIT DIAGRAM |
|---------|-----------------|
| A | |
| B | |
| C | |
| D | |
| E | |
| F | |
| G | |
| H | |

| CIRCUIT | CIRCUIT DIAGRAM |
|---------|-----------------|
| J | |
| K | |
| L | |
| M | |
| R | |
| S | |

| SYMBOL LEGEND | |
|---------------|---|
| SYM. | DEFINITION |
| | DESIGNATES TERMINALS AND CONTACTS |
| | DESIGNATES LAMP LOCATION |
| | DESIGNATES MAINTAINED CIRCUITS |
| | DESIGNATES OTHER POSITION |
| | DESIGNATES MOMENTARY CIRCUITS |
| | DESIGNATES TWO POSITION CONNECTION |
| | DESIGNATES EXTERNAL JUMPER PROVIDED BY CUSTOMER |



NOTE:
J circuits are available for all non-locking V-Series styles. Consult factory for p/n details.

| SYMBOL LEGEND | |
|---------------|-----------------------------------|
| SYM. | DEFINITION |
| ○ | DESIGNATES TERMINALS AND CONTACTS |
| ○ | DESIGNATES LAMP LOCATION |
| ○ | DESIGNATES TWO POSITION CIRCUIT |

| CIRCUIT | CONNECTOR PART # |
|----------------|------------------|
| JA, JJ, JK | JC1-01 |
| J1, J3, J4, J5 | JC2-01 |
| J2 | JC3-01 |

V 1 D A B T O B - A R B 00 - 0 00

1 Series 2 Circuit 3 Rating 4 Termination Illumination 5 Lamp 6 Lamp 7 Lamp 8 Bracket 9 Actuator 10 Lens 11 Color 12 Legend 13 Legend Orientation 14 Actuator Lens Legend

1 SERIES

V

2 CIRCUIT

Terminal Connections as viewed from bottom of switch: () - 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.

| Position: | 1 | 2 | 3 |
|-----------|--------------|---------------------|--------------|
| SP DP | 2 & 3, 5 & 6 | Connected Terminals | 1 & 2, 4 & 5 |
| 1 A | ON | NONE | OFF |
| 2 B | (ON) | NONE | OFF |
| 3 C | ON | NONE | (OFF) |
| 4 D | ON | NONE | ON |
| 5 F | ON | NONE | (ON) |
| 6 J | ON | OFF | ON |
| 7 K | ON | OFF | (ON) |
| 8 L | (ON) | OFF | (ON) |

SPECIAL CIRCUITS

| | 2 & 3 | 2 & 3, 5 & 4 | 5 & 4 |
|----|----------------|--------------|-------|
| H* | 2 & 3 | 2 & 3, 5 & 4 | 5 & 4 |
| G* | 2 & 3, 5 & 6 | 2 & 3 | OFF |
| S* | 2 & 3, 5 & 6 | 2 & 3 | 1 & 2 |
| M* | (2 & 3, 5 & 6) | 2 & 3 | OFF |
| R* | (2 & 3, 5 & 6) | 2 & 3 | 2 & 1 |
| E* | 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.

3 RATING³

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

4 TERMINATION/BASE STYLE

| 8 term | 10 Term | Termination | Jumper |
|--------|---------|-----------------------------|-------------|
| 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.

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

| Sealed | Unsealed | Lamps | Illumination Type | Lamp wired to Terminals |
|--------|----------|-------|-------------------|-------------------------|
| S | 0 | NONE | - | - |
| A | 1 | 1 | INDEPENDENT | 8 (+) 7 (-) |
| B | 2 | 1 | DOWN | 3 (+) 7 (-) |
| C | 3 | 2 | UP | 3 (+) 7 (-) |
| D | 4 | 1 | DOWN | 3 (+) 7 (-) |
| E | | 2 | DOWN | 1 (+) 7 (-) |
| | | 1 | UP | 1 (+) 7 (-) |
| F | 5 | 2 | UP | 3 (+) 7 (-) |
| | | 1 | INDEPENDENT | 8 (+) 7 (-) |
| G | 6 | 2 | UP | 3 (+) 6 (-) |
| | | 1 | INDEPENDENT | 8 (+) 7 (-) |
| H | 7 | 2 | UP | 3 (+) 7 (-) |
| | | 1 | INDEPENDENT | 8 (+) 7 (-) |
| I | Z | 2 | INDEPENDENT | 8 (+) 7 (-) |
| U | Y | 1 | INDEPENDENT | 8 (+) 7 (-) |
| | | 2 | INDEPENDENT | 10 (+) 9 (-) |

SINGLE POLE SWITCHES ONLY

| | | | | |
|---|---|---|-------------|-------------|
| J | 8 | 1 | DOWN | 3 (+) 8 (-) |
| | | 2 | INDEPENDENT | 6 (+) 7 (-) |
| K | W | 1 | INDEPENDENT | 8 (+) 7 (-) |
| | | 2 | INDEPENDENT | 6 (+) 7 (-) |

DOUBLE POLE SWITCHES ONLY

| | | | | |
|---|---|---|------|-------------|
| L | 9 | 1 | DOWN | 3 (+) 6 (-) |
| M | R | 1 | UP | 3 (+) 6 (-) |
| N | T | 1 | DOWN | 3 (+) 6 (-) |
| | | 2 | DOWN | 1 (+) 4 (-) |
| P | V | 1 | UP | 1 (+) 4 (-) |
| | | 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 250VAC | | |
| Incandescent | 4 3V | 5 6V | 6 12V superbright | 7 18V superbright |
| LED* | | | Green | Red |
| | Red | Amber | | |
| 2VDC | A | L | F | R |
| 6VDC | B | M | G | S |
| 12VDC | C | N | H | T |
| 24VDC | D | P | J | V |

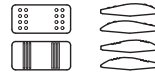
* Consult factory for "daylight bright" LED options. Typical current draw for LED is 20ma.

8 FLUSH BRACKET COLOR¹, PANEL SEAL

| | Black | White | Gray |
|----------|-------|-------|------|
| No Seal | B | W | G |
| One Seal | C | Y | H |

9 ACTUATOR

- 0 No Actuator
- A, B Contura II
- C, D Contura III



Actuator orientation above terminals: 3,6 1,4

10 LENS

| 0 - No Actuator | Z - No Lens | | |
|-----------------|-------------|-------|-------|
| Clear | White | Amber | Green |
| 1 | 6 | 8 | G |
| 2 | 7 | C | H |
| 3 | 8 | D | J |
| 4 | 9 | E | K |
| 5 | A | F | L |
| | | | M |
| | | | N |
| | | | P |
| | | | R |
| | | | S |
| | | | T |
| | | | U |
| | | | V |
| | | | W |
| | | | Y |

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 COLOR¹ AND TEXTURE

| 0 - No Actuator | Black | Gray | Red | White |
|-----------------|-------|------|-----|-------|
| Soft Surface | B | G | R | W |
| Hard Surface | C | H | S | Y |

12 ACTUATOR LENS OR BODY LEGENDS²

| | | | |
|--------|--------|--------|--------|
| 11 ON | 12 OFF | 13 I | 14 O |
| OFF | ON | O | I |
| 15 O O | 16 O O | 17 O I | 18 I O |
| F N | N F | | |
| F | F | | |

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

13 LEGEND ORIENTATION

| | |
|---|---|
| 0 | No legend (used with codes 11-18 in selection 12) |
| 1 | Orientation 1 |
| 2 | Orientation 2 |
| 3 | Orientation 3 |
| 4 | Orientation 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.

Notes:

- 1 Custom colors are available. Consult factory.
- 2 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.
- 3 Additional ratings available. See V-Series Switch Accessories page.
- 4 Contura II available with two square lenses. Consult factory for details.

V 1 D A S W O B - A Z E 00 - 0

1 Series 2 Circuit 3 Rating 4 Termination Illumination 5 Lock 6 Lamp 7 Bracket 8 Actuator 9 Lens 10 Function 11 Legend 12 Legend Orientation

1 SERIES
V

2 CIRCUIT
Terminal Connections as viewed from bottom of switch:
8 terminal 10 terminal
8 - 7 8 - 7
1 - -4 1 - -4
2 - -5 2 - -5
3 - -6 3 - -6
10 - -9

() - 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.

| Position: | 1 | 2 | 3 |
|-----------|--------------|---------------------|--------------|
| SP DP | 2 & 3, 5 & 6 | Connected Terminals | 1 & 2, 4 & 5 |
| 1 A | ON | NONE | OFF |
| 2 B | (ON) | NONE | OFF |
| 3 C | ON | NONE | (OFF) |
| 4 D | ON | NONE | ON |
| 5 F | ON | NONE | (ON) |
| 6 J | ON | OFF | ON |
| 7 K | ON | OFF | (ON) |
| 8 L | (ON) | OFF | (ON) |

SPECIAL CIRCUITS

| | 2 & 3 | 2 & 3, 5 & 4 | 5 & 4 |
|----|----------------|--------------|-------|
| H* | 2 & 3 | 2 & 3 | OFF |
| G* | 2 & 3, 5 & 6 | 2 & 3 | OFF |
| S* | 2 & 3, 5 & 6 | 2 & 3 | 1 & 2 |
| M* | (2 & 3, 5 & 6) | 2 & 3 | OFF |
| R* | (2 & 3, 5 & 6) | 2 & 3 | 2 & 1 |
| E* | 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.

3 RATING⁴

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

4 TERMINATION/BASE STYLE

| 8 term | 10 Term | Termination | Jumper |
|--------|---------|-----------------------------|-------------|
| 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.

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 | - | - |
| C | 3 | 2 | UP | 3 (+) 7 (-) |
| H | Z | 2 | INDEPENDENT | 8 (+) 7 (-) |

DOUBLE POLE SWITCHES ONLY

| | | | | |
|---|---|---|----|-------------|
| M | R | 1 | UP | 3 (+) 6 (-) |
|---|---|---|----|-------------|

6 LOCK
Lock above terminals 1 & 4 end of switch.
W lock

7 LAMP
Lamp above terminals 3 & 6 end of switch

| | | | | | |
|--------------|-------|----------|-------------------|-------------------|-------|
| No lamp | 0 | 2 250VAC | 6 12V superbright | 7 18V superbright | 8 24V |
| Neon | 1 | 125VAC | 5 6V | Green | Red |
| Incandescent | 4 | 3V | Amber | Red | |
| LED* | | | Red | Amber | Green |
| | 2VDC | A | L | F | R |
| | 6VDC | B | M | G | S |
| | 12VDC | C | N | H | T |
| | 24VDC | D | P | J | V |

* Consult factory for "daylight bright" LED options. Typical current draw for LED is 20ma.

8 FLUSH BRACKET COLOR¹, PANEL SEAL

| | | | |
|----------|-------|-------|------|
| No Seal | Black | White | Gray |
| One Seal | B | W | G |
| | C | Y | H |

9 HARD SURFACE ACTUATOR¹

| | | | | |
|-------------|-------|------|-----|-------|
| Contura II | Black | Gray | Red | White |
| | A | B | G | H |
| Contura III | C | D | E | F |

Actuator orientation above terminals:

10 LENS
Z - No Lens

| | | | | | |
|-------|-------|-------|-------|-----|------|
| Clear | White | Amber | Green | Red | Blue |
| 3 | 8 | D | J | P | V |

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 COLOR¹

| Lock Color | Up | Down | Up & Down | Center ³ |
|----------------|----|------|-----------|---------------------|
| Match Actuator | A | H | R | 1 |
| Black | B | J | S | 2 |
| White | C | K | T | 3 |
| Red | D | L | V | 4 |
| Safety Orange | E | M | W | 5 |

12 ACTUATOR LENS OR BODY LEGEND²
00 - No Legend

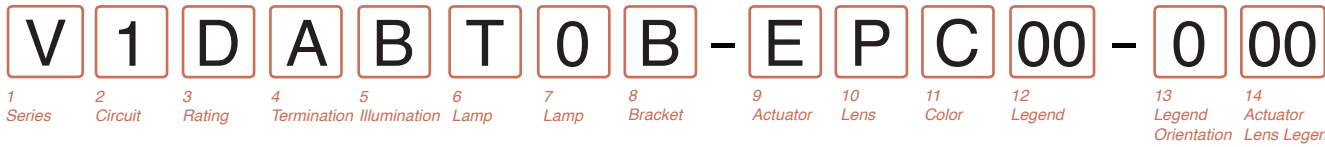
| | | | |
|------|------|------|------|
| 21 | 22 | 23 | 24 |
| OFF | ON | O | I |
| 25 O | 26 O | 27 O | 28 I |
| F | N | | |
| F | | | |

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

13 LEGEND ORIENTATION

| | |
|---|---|
| 0 | No legend (used with codes 21-28 in selection 12) |
| 1 | Orientation 1 |
| 2 | Orientation 2 |
| 3 | Orientation 3 |
| 4 | Orientation 4 |

- 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.



1 SERIES

V

2 CIRCUIT

Terminal Connections as viewed from bottom of switch: () - 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.

| Position: | 1 | 2 | 3 |
|-----------|--------------|---------------------|--------------|
| SP DP | 2 & 3, 5 & 6 | Connected Terminals | 1 & 2, 4 & 5 |
| 1 A | ON | NONE | OFF |
| 2 B | (ON) | NONE | OFF |
| 3 C | ON | NONE | (OFF) |
| 4 D | ON | NONE | ON |
| 5 F | ON | NONE | (ON) |
| 6 J | ON | OFF | ON |
| 7 K | ON | OFF | (ON) |
| 8 L | (ON) | OFF | (ON) |

SPECIAL CIRCUITS

| | 2 & 3 | 2 & 3, 5 & 4 | 5 & 4 |
|----|----------------|--------------|-------|
| H* | 2 & 3 | 2 & 3 | OFF |
| G* | 2 & 3, 5 & 6 | 2 & 3 | OFF |
| S* | 2 & 3, 5 & 6 | 2 & 3 | 1 & 2 |
| M* | (2 & 3, 5 & 6) | 2 & 3 | OFF |
| R* | (2 & 3, 5 & 6) | 2 & 3 | 2 & 1 |
| E* | 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.

3 RATING⁴

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

4 TERMINATION/BASE STYLE

| 8 term | 10 Term | Termination | Jumper |
|--------|---------|-----------------------------|-------------|
| 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.

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 | - | - |
| A | 1 | 1 | INDEPENDENT | 8 (+) 7 (-) |
| B | 2 | 1 | DOWN | 3 (+) 7 (-) |
| C | 3 | 2 | UP | 3 (+) 7 (-) |
| D | 4 | 1 | DOWN | 3 (+) 7 (-) |
| E | 5 | 1 | UP | 1 (+) 7 (-) |
| F | 6 | 1 | INDEPENDENT | 8 (+) 7 (-) |
| G | 7 | 2 | UP | 3 (+) 7 (-) |
| H | Z | 2 | INDEPENDENT | 8 (+) 7 (-) |
| U | Y | 1 | INDEPENDENT | 8 (+) 7 (-) |
| | | 2 | INDEPENDENT | 10 (+) 9 (-) |

SINGLE POLE SWITCHES ONLY

| | | | | |
|---|---|---|-------------|-------------|
| J | 8 | 1 | DOWN | 3 (+) 8 (-) |
| | | 2 | INDEPENDENT | 6 (+) 7 (-) |
| K | W | 1 | INDEPENDENT | 8 (+) 7 (-) |
| | | 2 | INDEPENDENT | 6 (+) 7 (-) |

DOUBLE POLE SWITCHES ONLY

| | | | | |
|---|---|---|------|-------------|
| L | 9 | 1 | DOWN | 3 (+) 6 (-) |
| M | R | 1 | UP | 3 (+) 6 (-) |
| N | T | 1 | DOWN | 3 (+) 6 (-) |
| | | 2 | DOWN | 1 (+) 4 (-) |
| P | V | 1 | UP | 1 (+) 4 (-) |
| | | 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 250VAC | | |
| Incandescent | 4 3V | 5 6V | 6 12V superbright | 7 18V superbright |
| LED* | | | Green | Red |
| 2VDC | Red | Amber | | |
| 6VDC | A | L | F | R |
| 12VDC | B | M | G | S |
| 24VDC | C | N | H | T |
| | D | P | J | V |

* Consult factory for "daylight bright" LED options. Typical current draw for LED is 20ma.

8 FLUSH BRACKET COLOR¹, PANEL SEAL

| | Black | White | Gray |
|----------|-------|-------|------|
| No Seal | B | W | G |
| One Seal | C | Y | H |

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



10 LENS

0 - No Actuator Z - No Lens

| Clear | White | Amber | Green | Red | Blue |
|-------|-------|-------|-------|-----|------|
| 1 | 6 | 8 | G | M | T |
| 2 | 7 | C | H | N | U |
| 3 | 8 | D | J | P | V |
| 4 | 9 | E | K | R | W |
| 5 | A | F | L | S | Y |

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 COLOR^{1,5,6}

No Actuator 0 Black C Gray H Red S White Y Nickel D Pewter E

12 ACTUATOR LENS OR BODY LEGENDS²

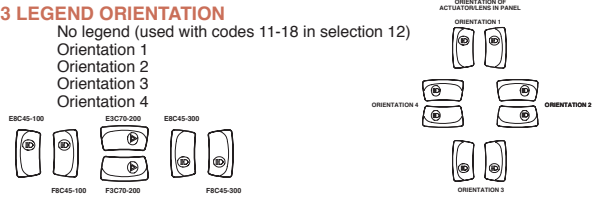
| | | | |
|--------|--------|--------|--------|
| 11 ON | 12 OFF | 13 I | 14 O |
| OFF | ON | O | I |
| 15 O O | 16 O O | 17 O I | 18 I O |
| F N | N F | | |
| F F | F F | | |

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

13 LEGEND ORIENTATION

0 No legend (used with codes 11-18 in selection 12)

- 1 Orientation 1
- 2 Orientation 2
- 3 Orientation 3
- 4 Orientation 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.

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 Gloss brow is on left side of E actuator and right side of F actuator.
- 4 Additional ratings available. See V-Series Switch Accessories page.
- 5 Laser etched rocker only available with lens code Z & actuator colors black, nickel or pewter.
- 6 Pewter and nickel colors only available with laser etched actuator.

V 1 D A B T O B - G P C 00 - 0 00

1 Series 2 Circuit 3 Rating 4 Termination Illumination Lamp 5 Lamp 6 Lamp 7 Lamp 8 Bracket 9 Actuator 10 Lens 11 Color 12 Legend 13 Legend 14 Actuator Orientation Lens Legend

1 SERIES

V

2 CIRCUIT

Terminal Connections as viewed from bottom of switch: () - 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.

| Position: | 1 | 2 | 3 |
|-----------|--------------|---------------------|--------------|
| SP DP | 2 & 3, 5 & 6 | Connected Terminals | 1 & 2, 4 & 5 |
| 1 A | ON | NONE | OFF |
| 2 B | (ON) | NONE | OFF |
| 3 C | ON | NONE | (OFF) |
| 4 D | ON | NONE | ON |
| 5 F | ON | NONE | (ON) |
| 6 J | ON | OFF | ON |
| 7 K | ON | OFF | (ON) |
| 8 L | (ON) | OFF | (ON) |

SPECIAL CIRCUITS

| | 2 & 3 | 2 & 3, 5 & 6 | 2 & 3, 5 & 4 | 5 & 4 |
|----|----------------|--------------|--------------|-------|
| H* | 2 & 3 | 2 & 3, 5 & 6 | 2 & 3 | OFF |
| G* | 2 & 3, 5 & 6 | 2 & 3 | 2 & 3 | 1 & 2 |
| S* | 2 & 3, 5 & 6 | 2 & 3 | 2 & 3 | OFF |
| M* | (2 & 3, 5 & 6) | 2 & 3 | 2 & 3 | 2 & 1 |
| R* | (2 & 3, 5 & 6) | 2 & 3 | 5 & 3 | 5 & 1 |
| E* | 5 & 6 | 5 & 3 | 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.

3 RATING⁴

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

4 TERMINATION/BASE STYLE

| 8 Term | 10 Term | Termination | Jumper |
|--------|---------|-----------------------------|-------------|
| 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.

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 | - | - |
| A | 1 | 1 | INDEPENDENT | 8 (+) 7 (-) |
| B | 2 | 1 | DOWN | 3 (+) 7 (-) |
| C | 3 | 2 | UP | 3 (+) 7 (-) |
| D | 4 | 1 | DOWN | 3 (+) 7 (-) |
| E | 5 | 1 | DOWN | 1 (+) 7 (-) |
| | | 2 | UP | 3 (+) 7 (-) |
| F | 6 | 1 | INDEPENDENT | 8 (+) 7 (-) |
| | | 2 | UP | 3 (+) 6 (-) |
| G | 7 | 1 | INDEPENDENT | 8 (+) 7 (-) |
| | | 2 | UP | 3 (+) 7 (-) |
| H | Z | 2 | INDEPENDENT | 8 (+) 7 (-) |
| | | 1 | INDEPENDENT | 8 (+) 7 (-) |
| U | Y | 1 | INDEPENDENT | 8 (+) 7 (-) |
| | | 2 | INDEPENDENT | 10 (+) 9 (-) |
| SINGLE POLE SWITCHES ONLY | | | | |
| J | 8 | 1 | DOWN | 3 (+) 8 (-) |
| K | W | 2 | INDEPENDENT | 6 (+) 7 (-) |
| | | 1 | INDEPENDENT | 8 (+) 7 (-) |
| | | 2 | INDEPENDENT | 6 (+) 7 (-) |
| | | | | |
| DOUBLE POLE SWITCHES ONLY | | | | |
| L | 9 | 1 | DOWN | 3 (+) 6 (-) |
| M | R | 1 | UP | 3 (+) 6 (-) |
| N | T | 1 | DOWN | 3 (+) 6 (-) |
| P | V | 2 | DOWN | 1 (+) 4 (-) |
| | | 1 | UP | 1 (+) 4 (-) |
| | | 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 250VAC | | | |
| Incandescent LED* | 4 3V | 5 6V | 6 12V superbright Green | 7 18V superbright Red | 8 24V |
| | Red | Amber | | | |
| 2VDC | A | L | F | R | |
| 6VDC | B | M | G | S | |
| 12VDC | C | N | H | T | |
| 24VDC | D | P | J | V | |

* Consult factory for "daylight bright" LED options. Typical current draw for LED is 20ma.

8 FLUSH BRACKET COLOR¹, PANEL SEAL

| | Black | White | Gray |
|----------|-------|-------|------|
| No Seal | B | W | G |
| One Seal | C | Y | H |

9 ACTUATOR

- 0 No Actuator
- G Contura V
- P Contura V, laser etched

10 Lens

| 0 - No Actuator | Z - No Lens | | | | |
|-----------------|-------------|-------|-------|-----|-----------|
| Clear | White | Amber | Green | Red | Blue |
| 1 6 | 8 | G | M | T | bar |
| 2 7 | C | H | N | U | bar/bar |
| 3 8 | D | J | P | V | oval |
| 4 9 | E | K | R | W | oval/bar |
| 5 A | F | L | S | Y | oval/oval |

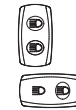
Lens color for LEDs must be clear, white, or match color of LED. Green or blue lenses are not recommended with Neon lamps.

11 ACTUATOR COLOR^{1,3,3}

- No Actuator 0
- Black C
- Gray H
- Red S
- White Y
- Nickel D
- Pewter E

12 ACTUATOR LENS OR BODY LEGENDS^{2,6}

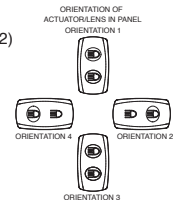
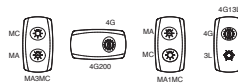
| | | | |
|--------|--------|--------|--------|
| 11 ON | 12 OFF | 13 I | 14 O |
| OFF | ON | O | I |
| 15 O O | 16 O O | 17 O I | 18 I O |
| F N | N F | | |
| F | F | | |



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

13 LEGEND ORIENTATION

- 0 No legend (used with codes 11-18 in selection 12)
- 1 Orientation 1
- 2 Orientation 2
- 3 Orientation 3
- 4 Orientation 4

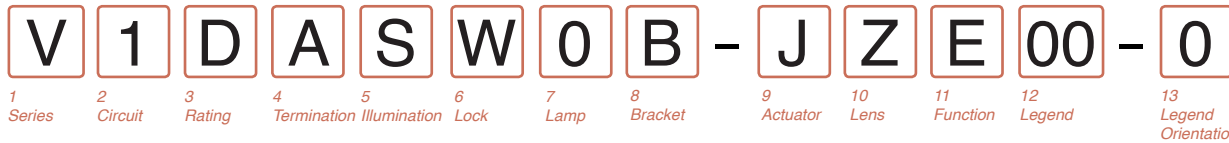


14 ACTUATOR LENS LEGEND

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.

Notes:

- 1 Consult factory to verify horsepower rating for your particular circuit choice.
- 2 Custom colors are available. Consult factory.
- 3 White imprinting is standard on black actuators; Black imprinting is standard on white, red and gray actuators. Custom colors are available, consult factory.
- 4 Laser Etched rocker only available with lens code Z & actuator colors black, nickel or pewter.
- 5 Additional ratings available. See V-Series Switch Accessories page.
- 6 Nickel and Pewter colors only available with laser etched actuator.
- 7 Consult factory for laser etched lens callout.



1 SERIES
V

2 CIRCUIT³
Terminal Connections as viewed from bottom of switch:
8 terminal 10 terminal
1 - 4 1 - 4
2 - 5 2 - 5
3 - 6 3 - 6
10 - 9

() - 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.

| Position: | 1 | 2 | 3 |
|-----------|--------------|-----------|------------------------|
| SP DP | 2 & 3, 5 & 6 | Connected | Terminals 1 & 2, 4 & 5 |
| 4 A | ON | NONE | OFF |
| 1 D | ON | NONE | ON |
| 6 J | ON | OFF | ON |
| 7 K | ON | OFF | (ON) |
| 8 L | (ON) | OFF | (ON) |
| 9 N | OFF | NONE | ON |

3 RATING⁴

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

4 TERMINATION/BASE STYLE

| 8 term | 10 Term | Termination | Jumper |
|--------|---------|-----------------------------|-------------|
| 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.

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 | - | - |
| C | 3 | 2 | UP | 3 (+) 7 (-) |
| H | Z | 2 | INDEPENDENT | 8 (+) 7 (-) |

DOUBLE POLE SWITCHES ONLY

| | | | | |
|---|---|---|----|-------------|
| M | R | 1 | UP | 3 (+) 6 (-) |
|---|---|---|----|-------------|

6 LOCK
Lock above terminals 1 & 4 end of switch.
W low profile lock Y⁶ high profile lock

- 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 Only available with 3 position circuits. Center OFF and special circuits only available with center position lock function.
4 Additional ratings available. See V-Series Switch Accessories page.
5 Located at T3-6 end of switch.
6 Contura V style only.

7 LAMP
Lamp above terminals 3 & 6 end of switch

| | | | | | |
|--------------|----------|----------|-------------------|-------------------|-------|
| No lamp | 0 | 2 250VAC | 6 12V superbright | 7 18V superbright | 8 24V |
| Neon | 1 125VAC | 5 6V | Green | Red | |
| Incandescent | 4 3V | | | | |
| LED* | | | | | |
| | Red | Amber | | | |
| 2VDC | A | L | F | R | |
| 6VDC | B | M | G | S | |
| 12VDC | C | N | H | T | |
| 24VDC | D | P | J | V | |

* Consult factory for "daylight bright" LED options. Typical current draw for LED is 20ma.

8 FLUSH BRACKET COLOR¹, PANEL SEAL

| | Black | White | Gray |
|----------|-------|-------|------|
| No Seal | B | W | G |
| One Seal | C | Y | H |

9 HARD SURFACE ACTUATOR

CONTURA IV:
Orientation
Left
Right

| | Black | Gray | Red | White |
|---|-------|------|-----|-------|
| J | K | L | M | |
| N | P | R | S | |

CONTURA V:
Orientation

| | Black | Gray | Red | White |
|---|-------|------|-----|-------|
| U | V | W | Y | |

Actuator orientation above terminals: 3, 6 1, 4
Actuator orientation above terminals: 3, 6 1, 4

10 LENS⁵

Z - No Lens

| Clear | White | Amber | Green | Red | Blue |
|-------|-------|-------|-------|-----|------|
| A | B | C | D | E | F |

bar lens
G H J K L M 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.

11 ACTUATOR LOCK FUNCTION AND COLOR¹

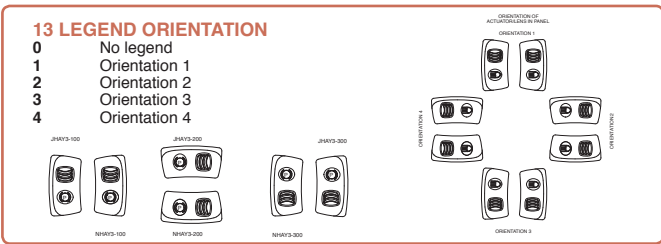
| Lock Color | Up | Down | Up & Down | Center ³ |
|----------------|----|------|-----------|---------------------|
| Match Actuator | A | H | R | 1 |
| Black | B | J | S | 2 |
| White | C | K | T | 3 |
| Red | D | L | V | 4 |
| Safety Orange | E | M | W | 5 |
| Gray | F | G | N | 6 |

12 ACTUATOR LENS OR BODY LEGEND²

00 - No Legend

| | | | |
|--------|-------|------|------|
| 21 OFF | 22 ON | 23 O | 24 I |
| 25 O | 26 O | 27 O | 28 I |
| F | N | | |
| F | | | |

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



V 1 D B G N T B - H A 7 C B A C - 1 00

1 Series 2 Circuit 3 Rating 4 Termination Illumination Lamp 5 Lamp 6 Lamp 7 Bracket 8 Actuator 9 Lens 10 Lens 11 Color 12 Insert Color 13 Actuator Lens 14 Legend Orientation Lens Legend 15 Legend Orientation Lens Legend 16 Actuator Lens Legend

1 SERIES
V

2 CIRCUIT

Terminal Connections as viewed from bottom of switch: () - 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.

| Position: | 1 | 2 | 3 |
|-----------|--------------|---------------------|--------------|
| SP DP | 2 & 3, 5 & 6 | Connected Terminals | 1 & 2, 4 & 5 |
| 1 A | ON | NONE | OFF |
| 2 B | (ON) | NONE | OFF |
| 3 C | ON | NONE | (OFF) |
| 4 D | ON | NONE | ON |
| 5 F | ON | NONE | (ON) |
| 6 J | ON | OFF | ON |
| 7 K | ON | OFF | (ON) |
| 8 L | (ON) | OFF | (ON) |

SPECIAL CIRCUITS

| | | | |
|----|----------------|--------------|-------|
| H* | 2 & 3 | 2 & 3, 5 & 4 | 5 & 4 |
| G* | 2 & 3, 5 & 6 | 2 & 3 | OFF |
| S* | 2 & 3, 5 & 6 | 2 & 3 | 1 & 2 |
| M* | (2 & 3, 5 & 6) | 2 & 3 | OFF |
| R* | (2 & 3, 5 & 6) | 2 & 3 | 2 & 1 |
| E* | 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.

3 RATING³

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

4 TERMINATION/BASE STYLE

| 8 term | 10 Term | Termination | Jumper |
|--------|---------|-----------------------------|-------------|
| 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.

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 | - | - |
| A | 1 | 1 | INDEPENDENT | 8 (+) 7 (-) |
| B | 2 | 1 | DOWN | 3 (+) 7 (-) |
| C | 3 | 2 | UP | 3 (+) 7 (-) |
| D | 4 | 1 | DOWN | 3 (+) 7 (-) |
| E | 5 | 2 | DOWN | 1 (+) 7 (-) |
| F | 6 | 1 | UP | 1 (+) 7 (-) |
| G | 7 | 2 | UP | 3 (+) 7 (-) |
| H | Z | 2 | INDEPENDENT | 8 (+) 7 (-) |
| U | Y | 1 | INDEPENDENT | 8 (+) 7 (-) |
| | | 2 | INDEPENDENT | 10 (+) 9 (-) |

SINGLE POLE SWITCHES ONLY

| | | | | |
|---|---|---|-------------|-------------|
| J | 8 | 1 | DOWN | 3 (+) 8 (-) |
| | | 2 | INDEPENDENT | 6 (+) 7 (-) |
| K | W | 1 | INDEPENDENT | 8 (+) 7 (-) |
| | | 2 | INDEPENDENT | 6 (+) 7 (-) |

DOUBLE POLE SWITCHES ONLY

| | | | | |
|---|---|---|------|-------------|
| L | 9 | 1 | DOWN | 3 (+) 6 (-) |
| M | R | 1 | UP | 3 (+) 6 (-) |
| N | T | 1 | DOWN | 3 (+) 6 (-) |
| | | 2 | DOWN | 1 (+) 4 (-) |
| P | V | 1 | UP | 1 (+) 4 (-) |
| | | 2 | UP | 3 (+) 6 (-) |

7 LAMP

Lamp above terminals 3 & 6 end of switch

| | | | | | |
|-------------------|---|--------|---|--------|-------------------------|
| No lamp | 0 | | | | |
| Neon | 1 | 125VAC | 2 | 250VAC | |
| Incandescent LED* | 4 | 3V | 5 | 6V | |
| | | Red | | Amber | 6 12V superbright Green |
| 2VDC | A | | L | | 7 18V superbright Red |
| 6VDC | B | | M | | 8 24V Red |
| 12VDC | C | | N | | |
| 24VDC | D | | P | | |

* Consult factory for "daylight bright" LED options. Typical current draw for LED is 20ma.

8 FLUSH BRACKET COLOR¹, PANEL SEAL

| | | | |
|----------|-------|-------|------|
| | Black | White | Gray |
| No Seal | B | W | G |
| One Seal | C | Y | H |

9 ACTUATOR

0 No Actuator H High Insert L Low Insert



10,11 LENS⁴

0 - No Actuator Z - No Lens

| | Clear | White | Amber | Green | Red | Blue | |
|---|-------|-------|-------|-------|-----|------|-----------------------|
| 3 | 7 | C | H | N | U | | Bar Lens Translucent |
| 4 | | D | J | P | V | | Bar Lens Transparent |
| | | E | K | R | W | | Oval Lens Transparent |
| | | A | F | L | S | Y | 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

C Black H Gray S Red Y White

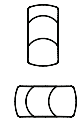
13 INSERT COLOR

B Black N Bright Nickel Plated
C Bright Chrome Plated S Satin Chrome Plated
D Satin Chrome Painted T Satin Nickel Plated
W White

14 ACTUATOR LENS OR BODY LEGENDS²

00 - No Legend this location/No actuator

| | | | | | | | |
|----|-----|----|-----|----|-----|----|-----|
| 11 | ON | 12 | OFF | 13 | I | 14 | O |
| | OFF | | ON | | O | | I |
| 15 | O O | 16 | O O | 17 | O I | 18 | I O |
| | F N | | N F | | | | |
| | F | | F | | | | |



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

15 LEGEND ORIENTATION

0 No legend (used with codes 11-18 in selection 12)

| | |
|---|---------------|
| 1 | Orientation 1 |
| 2 | Orientation 2 |
| 3 | Orientation 3 |
| 4 | Orientation 4 |

16 ACTUATOR LENS LEGEND

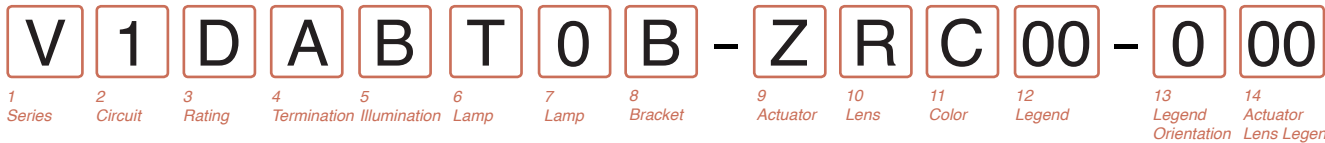
00 No legend this location / no actuator

(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.

- 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.



1 SERIES
V

2 CIRCUIT
Terminal Connections as viewed from bottom of switch:
8 terminal 10 terminal
8 - - 7 8 - - 7
1 - - 4 1 - - 4
2 - - 5 2 - - 5
3 - - 6 3 - - 6
10 - - 9

() - 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.

| Position: | 1 | 2 | 3 |
|-----------|--------------|---------------------|--------------|
| SP DP | 2 & 3, 5 & 6 | Connected Terminals | 1 & 2, 4 & 5 |
| 1 A | ON | NONE | OFF |
| 2 B | (ON) | NONE | OFF |
| 3 C | ON | NONE | (OFF) |
| 4 D | ON | NONE | ON |
| 5 F | ON | NONE | (ON) |
| 6 J | ON | OFF | ON |
| 7 K | ON | OFF | (ON) |
| 8 L | (ON) | OFF | (ON) |

SPECIAL CIRCUITS

| | 2 & 3 | 2 & 3, 5 & 4 | 5 & 4 |
|----|----------------|--------------|-------|
| H* | 2 & 3 | 2 & 3 | OFF |
| G* | 2 & 3, 5 & 6 | 2 & 3 | 1 & 2 |
| S* | 2 & 3, 5 & 6 | 2 & 3 | OFF |
| M* | (2 & 3, 5 & 6) | 2 & 3 | OFF |
| R* | (2 & 3, 5 & 6) | 2 & 3 | 2 & 1 |
| E* | 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.

3 RATING⁴

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

4 TERMINATION/BASE STYLE

| 8 term | 10 Term | Termination | Jumper |
|--------|---------|-----------------------------|-------------|
| 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.

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 | - | - |
| A | 1 | 1 | INDEPENDENT | 8 (+) 7 (-) |
| B | 2 | 1 | DOWN | 3 (+) 7 (-) |
| C | 3 | 2 | UP | 3 (+) 7 (-) |
| D | 4 | 1 | DOWN | 3 (+) 7 (-) |
| E | 5 | 2 | DOWN | 1 (+) 7 (-) |
| F | 6 | 1 | UP | 3 (+) 7 (-) |
| G | 7 | 1 | INDEPENDENT | 8 (+) 7 (-) |
| H | Z | 2 | UP | 3 (+) 6 (-) |
| I | Y | 1 | INDEPENDENT | 8 (+) 7 (-) |
| J | W | 2 | INDEPENDENT | 8 (+) 7 (-) |
| K | V | 1 | INDEPENDENT | 6 (+) 7 (-) |
| L | U | 2 | INDEPENDENT | 8 (+) 7 (-) |
| M | T | 1 | DOWN | 10 (+) 9 (-) |
| N | R | 1 | DOWN | 3 (+) 8 (-) |
| O | Q | 2 | INDEPENDENT | 6 (+) 7 (-) |
| P | P | 1 | INDEPENDENT | 8 (+) 7 (-) |
| Q | V | 2 | INDEPENDENT | 6 (+) 7 (-) |

SINGLE POLE SWITCHES ONLY

| | | | | |
|---|---|---|-------------|-------------|
| J | 8 | 1 | DOWN | 3 (+) 8 (-) |
| K | W | 2 | INDEPENDENT | 6 (+) 7 (-) |
| L | U | 1 | INDEPENDENT | 8 (+) 7 (-) |
| M | T | 2 | INDEPENDENT | 6 (+) 7 (-) |

DOUBLE POLE SWITCHES ONLY

| | | | | |
|---|---|---|------|-------------|
| L | 9 | 1 | DOWN | 3 (+) 6 (-) |
| M | R | 1 | UP | 3 (+) 6 (-) |
| N | T | 1 | DOWN | 3 (+) 6 (-) |
| O | Q | 2 | DOWN | 1 (+) 4 (-) |
| P | V | 1 | UP | 1 (+) 4 (-) |
| Q | V | 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 | 2 250VAC | 6 12V superbright Green | 7 18V superbright Red | 8 24V superbright Red |
| Neon | 1 125VAC | 5 6V | | | |
| Incandescent LED* | 4 3V | | | | |
| | Red | Amber | | | |
| 2VDC | A | L | F | R | |
| 6VDC | B | M | G | S | |
| 12VDC | C | N | H | T | |
| 24VDC | D | P | J | V | |

* Consult factory for "daylight bright" LED options. Typical current draw for LED is 20ma.

8 FLUSH BRACKET COLOR¹, PANEL SEAL

| | | | |
|----------|-------|-------|------|
| No Seal | Black | White | Gray |
| One Seal | B | W | G |
| | C | Y | H |

9 ACTUATOR

| | |
|---|-------------|
| 0 | No Actuator |
| Z | Contura VII |

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 |
|-----------------|-------------|-------|-------|-------|-----|------|-----------------------|
| 6 | B | G | M | T | | | |
| 7 | C | H | N | U | | | |
| 8 | D | J | P | V | | | |
| 9 | E | K | R | W | | | |
| A | F | L | S | Y | | | |
| 1 | 2 | 3 | 4 | 5 | | | |

11 ACTUATOR COLOR/THUMB PRINT COLOR¹

| | | | |
|---|-------------------|---|-------------|
| O | N/A - No Actuator | C | Black/Black |
| H | Grey/Black | S | Red/Black |
| Y | White/Black | | |

14 ACTUATOR LENS OR BODY LEGENDS²

| | | | | | | | |
|----|-----|----|-----|----|-----|----|-----|
| 11 | ON | 12 | OFF | 13 | I | 14 | O |
| | OFF | | ON | | O | | I |
| 15 | O O | 16 | O O | 17 | O I | 18 | I O |
| | F N | | N F | | | | |
| | F | | F | | | | |

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

13 LEGEND ORIENTATION

| | |
|---|---|
| 0 | No legend (used with codes 11-18 in selection 12) |
| 1 | Orientation 1 |
| 2 | Orientation 2 |
| 3 | Orientation 3 |
| 4 | Orientation 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.

- 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.
 - Legends available for lighted oval lens version only

V 1 D A B 6 0 1 - 6 P Z 00 - 0 00
 1 Series 2 Circuit 3 Rating 4 Termination Illumination 5 Lamp 6 Lamp 7 Lamp 8 Bracket 9 Actuator 10 Lens 11 Lens 12 Legend 13 Legend 14 Actuator Orientation Lens Legend

1 SERIES
V

2 CIRCUIT
 Terminal Connections as viewed from bottom of switch:
 8 terminal 10 terminal
 8 - -7 8 - -7
 1 - -4 1 - -4
 2 - -5 2 - -5
 3 - -6 3 - -6
 10 - -9

() - 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.

Position:

| SP DP: | 1 | 2 | 3 |
|--------|------|------|-------|
| 1 A | ON | NONE | OFF |
| 2 B | (ON) | NONE | OFF |
| 3 C | ON | NONE | (OFF) |
| 4 D | ON | NONE | ON |
| 5 F | ON | NONE | (ON) |
| 6 J | ON | OFF | ON |
| 7 K | ON | OFF | (ON) |
| 8 L | (ON) | OFF | (ON) |

SPECIAL CIRCUITS

| | 2 & 3 | 2 & 3, 5 & 6 | 5 & 4 |
|----|----------------|--------------|-------|
| H* | 2 & 3 | 2 & 3 | 5 & 4 |
| G* | 2 & 3, 5 & 6 | 2 & 3 | OFF |
| S* | 2 & 3, 5 & 6 | 2 & 3 | 1 & 2 |
| M* | (2 & 3, 5 & 6) | 2 & 3 | OFF |
| R* | (2 & 3, 5 & 6) | 2 & 3 | 2 & 1 |
| E* | 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.

3 RATING⁴

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

4 TERMINATION/BASE STYLE

| 8 term | 10 Term | Termination | Jumper |
|--------|---------|-----------------------------|-------------|
| 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.

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 | - | - |
| A | 1 | 1 | INDEPENDENT | 8 (+) 7 (-) |
| B | 2 | 1 | DOWN | 3 (+) 7 (-) |
| C | 3 | 2 | UP | 3 (+) 7 (-) |
| D | 4 | 1 | DOWN | 3 (+) 7 (-) |
| E | 5 | 1 | UP | 1 (+) 7 (-) |
| F | 6 | 2 | UP | 3 (+) 7 (-) |
| G | 7 | 1 | INDEPENDENT | 8 (+) 7 (-) |
| H | Z | 2 | UP | 3 (+) 7 (-) |
| U | Y | 1 | INDEPENDENT | 8 (+) 7 (-) |
| | | 2 | INDEPENDENT | 10 (+) 9 (-) |

SINGLE POLE SWITCHES ONLY

| | | | | |
|---|---|---|-------------|-------------|
| J | 8 | 1 | DOWN | 3 (+) 8 (-) |
| | | 2 | INDEPENDENT | 6 (+) 7 (-) |
| K | W | 1 | INDEPENDENT | 8 (+) 7 (-) |
| | | 2 | INDEPENDENT | 6 (+) 7 (-) |

DOUBLE POLE SWITCHES ONLY

| | | | | |
|---|---|---|------|-------------|
| L | 9 | 1 | DOWN | 3 (+) 6 (-) |
| M | R | 1 | UP | 3 (+) 6 (-) |
| N | T | 1 | DOWN | 3 (+) 6 (-) |
| | | 2 | DOWN | 1 (+) 4 (-) |
| P | V | 1 | UP | 1 (+) 4 (-) |
| | | 2 | UP | 3 (+) 6 (-) |

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 & gray actuators. Custom colors are available, consult factory.
 3 With 2 square lenses, use sel. 12 for lens above lamp 1, & selection 14 for lens above lamp 2.
 4 Additional ratings available. See V-Series Switch Accessories page.
 5 Not available with Contura XI rockers.

6,7 LAMP (same coding for both selections)
 Selection 6: above terminals 1 & 4; Selection 7: above terminals 3 & 6

| | | | | | |
|--------------|----------|----------|-------------------|-------------------|-------------------|
| No lamp | 0 | 2 250VAC | 6 12V superbright | 7 18V superbright | 8 24V superbright |
| Neon | 1 125VAC | 5 6V | Green | Red | |
| Incandescent | 4 3V | | | | |
| LED* | | | | | |
| 2VDC | A Red | L Amber | F superbright | R superbright | |
| 6VDC | B | M | G Green | S Red | |
| 12VDC | C | N | H | T | |
| 24VDC | D | P | J | V | |

* Consult factory for "daylight bright" LED options. Typical current draw for LED is 20ma.

8 BRACKET COLOR¹, PANEL SEAL (EXTERNAL FOAM GASKET)

| | X & XI w/Flush Bracket | X, XI, XII w/Raised Bracket |
|--------------|------------------------|-----------------------------|
| # of gaskets | 0 1 2 0 1 | 1 4 |
| Black | B C D | 1 4 |
| White | W Y Z | 2 5 |
| Gray | G H J | 3 6 |

9 ACTUATOR

| | | | | | |
|-------------|---|-------|------|-------|-----|
| No Actuator | 0 | Black | Gray | White | Red |
| Contura X | 1 | 2 | 3 | 4 | |
| Contura XI | 6 | 7 | 8 | 9 | |
| Contura XII | J | K | N | M | |

Actuator orientation above 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 | Lens Style | | | | |
|-----------------|-------------|------------|-------|-----|------|--------------------------------|
| Clear | White | Amber | Green | Red | Blue | Bar |
| 3 | 8 | D | J | P | V | One piece Square |
| 4 | 9 | E | K | R | W | Two piece Square* |
| 5 | A | F | L | S | Y | (w/ clear top protective lens) |
| 2 | 7 | C | H | N | U | Two piece Square* |
| 1 | 6 | B | G | M | T | (w/ smoke top protective lens) |
| | | | | | | Two piece Square* |
| | | | | | | (w/ 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.

12 ACTUATOR LENS OR BODY LEGEND²

| | |
|----|-------------------------------------|
| 00 | No Legend this location/No actuator |
| 11 | ON 12 OFF 13 I 14 O |
| | OFF ON O I |
| 15 | O O 16 O O 17 O I 18 I O |
| | F N F F |
| 21 | 22 23 24 |
| | OFF ON O I |
| 25 | O O 26 O 27 O 28 I |
| | F N F |

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

13 LEGEND ORIENTATION³

| | |
|---|---|
| 0 | No legend (used with codes 11-18 in selection 12) |
| 1 | Orientation 1 |
| 2 | Orientation 2 |
| 3 | Orientation 3 |
| 4 | Orientation 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.

V 1 D A S W 0 1 - 1 P B 00 - 0

1 Series 2 Circuit 3 Rating 4 Termination 5 Illumination 6 Lock 7 Lamp 8 Bracket 9 Actuator 10 Lens 11 Function 12 Legend 13 Legend Orientation

1 SERIES
V

2 CIRCUIT
Terminal Connections as viewed from bottom of switch:
8 terminal 10 terminal
8 - 7 8 - 7
1 - -4 1 - -4
2 - -5 2 - -5
3 - -6 3 - -6
10 - -9

() - 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.

| Position: | 1 | 2 | 3 |
|-----------|--------------|---------------------|--------------|
| SP DP | 2 & 3, 5 & 6 | Connected Terminals | 1 & 2, 4 & 5 |
| 1 A | ON | NONE | OFF |
| 4 D | ON | NONE | ON |
| 6 J | ON | OFF | ON |
| 9 N | OFF | NONE | ON |

SPECIAL CIRCUITS

| | | | |
|----|--------------|--------------|-------|
| H* | 2 & 3 | 2 & 3, 5 & 4 | 5 & 4 |
| G* | 2 & 3, 5 & 6 | 2 & 3 | OFF |
| S* | 2 & 3, 5 & 6 | 2 & 3 | 1 & 2 |
| E* | 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.

3 RATING⁴

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

4 TERMINATION/BASE STYLE

| 8 Term | 10 Term | Termination | Jumper |
|--------|---------|-----------------------------|-------------|
| 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.

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 | - | - |
| C | 3 | 2 | UP | 3 (+) 7 (-) |
| H | Z | 2 | INDEPENDENT | 8 (+) 7 (-) |

DOUBLE POLE SWITCHES ONLY

| | | | | |
|---|---|---|----|-------------|
| M | R | 1 | UP | 3 (+) 6 (-) |
|---|---|---|----|-------------|

6 LOCK
Lock above terminals 1 & 4 end of switch.
W lock

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 Located over T1-4 end of switch.
4 Additional ratings available. See V-Series Switch Accessories page.
5 Located over T3-6 end of switch.

6,7 LAMP (same coding for both selections)
Selection 6: above terminals 1 & 4; Selection 7: above terminals 3 & 6

| | | | | | |
|-------------------|----------|----------|-------------------|-------------------|-------------------|
| No lamp | 0 | 2 250VAC | 6 12V superbright | 7 18V superbright | 8 24V superbright |
| Neon | 1 125VAC | 5 6V | Green | Red | |
| Incandescent LED* | 4 3V | | F | R | |
| | | | G | S | |
| | | | H | T | |
| | | | J | V | |

2VDC Red Amber Green
A L F
6VDC B M G
12VDC C N H
24VDC D P J

* Consult factory for "daylight bright" LED options. Typical current draw for LED is 20ma.

8 FLUSH BRACKET COLOR¹, PANEL SEAL

| | | | |
|------------|---|---|---|
| No Gasket | 1 | 2 | 3 |
| One Gasket | 4 | 5 | 6 |

Black White Gray

9 HARD SURFACE ACTUATOR

| | | | | |
|-----------|-------|------|-----|-------|
| Contura X | Black | Grey | Red | White |
| | 1 | 2 | 3 | 4 |

Actuator orientation above terminals: 3,6 1,4

10 LENS - ABOVE LAMP #2 TERMINALS⁵
Z - No Lens

| | | | | | | |
|-------|-------|-------|-------|-----|------|--------------------------------|
| Clear | White | Amber | Green | Red | Blue | Lens Style |
| 3 | 8 | D | J | P | V | Bar |
| 4 | 9 | E | K | R | W | One piece Square |
| 5 | A | F | L | S | Y | Two piece Square* |
| | | | | | | (w/ clear top protective lens) |
| 2 | 7 | C | H | N | U | Two piece Square* |
| | | | | | | (w/ smoke top protective lens) |
| 1 | 6 | B | G | M | T | Two piece Square* |
| | | | | | | (w/ 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 COLOR³

| | | | |
|----------------|----|------|-----------|
| Lock Color | Up | Down | Up & Down |
| Match Actuator | A | H | R |
| Black | B | J | S |
| White | C | K | T |
| Red | D | L | V |
| Gray | E | M | W |
| Safety Orange | F | N | Y |

12 ACTUATOR LENS OR BODY LEGEND²
00 - No Legend

| | | | |
|-----|----|----|----|
| 21 | 22 | 23 | 24 |
| OFF | ON | O | I |
| 25 | 26 | 27 | 28 |
| F | N | O | I |
| F | | | |

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

13 LEGEND ORIENTATION³

| | |
|---|---|
| 0 | No legend (used with codes 11-18 in selection 12) |
| 1 | Orientation 1 |
| 2 | Orientation 2 |
| 3 | Orientation 3 |
| 4 | Orientation 4 |

Orientation 1 Orientation 2 Orientation 3 Orientation 4

13DMC-1 1PMMF-1 4S 18K45-2

V 1 D B B C 0 B - F A P C A B - 1 00

1 Series 2 Circuit 3 Rating 4 Termination Illumination Lamp 5 Lamp 6 Lamp 7 Lamp 8 Bracket 9 Actuator 10 Lens 11 Actuator Color 12 Legend 13 Legend Actuator, Orientation 14 Lens Legends

1 SERIES
V

2 CIRCUIT
Terminal Connections as viewed from bottom of switch:
8 terminal 10 terminal
8- -7 8- -7
1- -4 1- -4
2- -5 2- -5
3- -6 3- -6
10- -9

() - 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.

Position:

| SP | DP | 1 | 2 | 3 |
|----|------|--------------|---------------------|--------------|
| A | ON | 2 & 3, 5 & 6 | Connected Terminals | 1 & 2, 4 & 5 |
| B | (ON) | | NONE | OFF |
| C | ON | | NONE | OFF |
| D | ON | | NONE | (OFF) |
| F | ON | | NONE | ON |
| J | ON | | OFF | (ON) |
| K | ON | | OFF | (ON) |
| L | (ON) | | OFF | (ON) |

SPECIAL CIRCUITS

| | 2 & 3 | 2 & 3, 5 & 4 | 5 & 4 |
|----|----------------|--------------|-------|
| H* | 2 & 3 | 2 & 3, 5 & 4 | 5 & 4 |
| G* | 2 & 3, 5 & 6 | 2 & 3 | OFF |
| M* | (2 & 3, 5 & 6) | 2 & 3 | OFF |
| R* | (2 & 3, 5 & 6) | 2 & 3 | 2 & 1 |
| E* | 5 & 6 | 5 & 3 | 5 & 1 |
| S* | 2 & 3, 5 & 6 | 2 & 3 | 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.

3 RATING³

1 .4VA @ 28VDC Resistive
B 15A 24V
C 20A 18V
D 20A 12V
E 20A 14V, 10A 14VT (circuit 1, 4, A & D only)
F 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 |
| A | B | .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 | Wire Leads no barriers | No |
| E | F | Wire Leads | No |

Note: Codes J & K for circuits H, G & M.

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 |
|----------------------------------|-------------------|-------------------------|
| S | NONE | - |
| A | 1 INDEPENDENT | 8 (+) 7 (-) |
| B | 1 DOWN | 3 (+) 7 (-) |
| C | 2 UP | 3 (+) 7 (-) |
| D | 1 DOWN | 3 (+) 7 (-) |
| E | 2 DOWN | 1 (+) 7 (-) |
| F | 1 UP | 3 (+) 7 (-) |
| F | 2 UP | 3 (+) 7 (-) |
| F | 1 INDEPENDENT | 8 (+) 7 (-) |
| F | 2 UP | 3 (+) 6 (-) |
| G | 1 INDEPENDENT | 8 (+) 7 (-) |
| G | 2 UP | 3 (+) 7 (-) |
| H | 2 INDEPENDENT | 8 (+) 7 (-) |
| SINGLE POLE SWITCHES ONLY | | |
| J | 1 DOWN | 3 (+) 8 (-) |
| J | 2 INDEPENDENT | 6 (+) 7 (-) |
| K | 1 INDEPENDENT | 8 (+) 7 (-) |
| K | 2 INDEPENDENT | 6 (+) 7 (-) |
| DOUBLE POLE SWITCHES ONLY | | |
| L | 1 DOWN | 3 (+) 6 (-) |
| M | 1 UP | 3 (+) 6 (-) |
| N | 1 DOWN | 3 (+) 6 (-) |
| N | 2 DOWN | 1 (+) 4 (-) |
| P | 1 UP | 1 (+) 4 (-) |
| P | 2 UP | 3 (+) 6 (-) |
| U | 1 INDEPENDENT | 8 (+) 7 (-) |
| U | 2 INDEPENDENT | 10 (+) 9 (-) |

6 & 7 LAMP

| No lamp | 0 | 1 125VAC | 2 250VAC | 6 12V superbright | 7 18V superbright | 8 24V superbright |
|--------------|------|----------|----------|-------------------|-------------------|-------------------|
| Neon | 1 | 125VAC | 2 250VAC | 6 12V superbright | 7 18V superbright | 8 24V superbright |
| Incandescent | 4 3V | 5 6V | | Green | Red | |
| LED* | | | | | | |
| | Red | Amber | | | | |
| 2VDC | A | L | F | R | | |
| 6VDC | B | M | G | S | | |
| 12VDC | C | N | H | T | | |
| 24VDC | D | P | J | V | | |


* Consult factory for "daylight bright" LED options. Typical current draw for LED is 20ma.

8 BRACKET COLOR & PANEL SEAL

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

9 ACTUATOR STYLE

0 No Actuator - Furnished separately
FA Contura XIV
FB Contura XIV - Laser Etched



10 LENS COLOR / STYLE

| 0 - No Actuator | Z - No Lens | Clear | White | Amber | Green | Red | Blue |
|-----------------|-------------|-------|-------|-------|-------|-----|------|
| 1 | 6 | B | G | M | T | | |
| 2 | 7 | C | H | N | U | | |
| 3 | 8 | D | J | P | V | | |
| 4 | 9 | E | K | R | W | | |
| 5 | A | F | L | S | Y | | |
| 5 | A | N/A | N/A | N/A | N/A | | |

PAD Printed Laser-Etched

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 COLOR¹

O N/A - No Actuator
C Black
S Red
Y White

12 ACTUATOR LENS or BODY LEGEND²

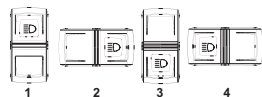
00 - No Legend this location / no actuator

| 11 ON | 12 OFF | 13 I | 14 O |
|--------|--------|--------|--------|
| OFF | ON | O | I |
| 15 O O | 16 O O | 17 O I | 18 I O |
| F N | N F | | |
| F | F | | |



13 LEGEND ORIENTATION

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

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

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

Contura II, III, IV, V, VI, VII, X, XI, XII, XIV Base switches separately: specify **V** with code selections 2-8 in the ordering schemes.

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

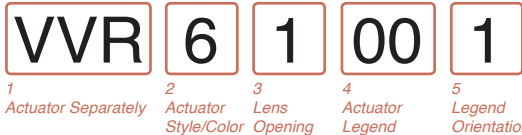
Contura VI Actuator with lenses and inserts only: **VV** with code selections 9-16

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
VVP

2 ACTUATOR STYLE & COLOR

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

3 LENS OPENING FOR¹

1 One bar lens
2 One bar lenses
3 One square lens
4 two square lens

5 square lens on top/
bar lens on bottom
(Contura X only)

4 ACTUATOR LENS OR BODY LEGEND

00 - No Legend this location

11 ON 12 OFF 13 I 14 O
OFF ON O I

15 O O 16 O O 17 O I 18 I O
F N N F
F F

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

5 LEGEND ORIENTATION¹

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

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



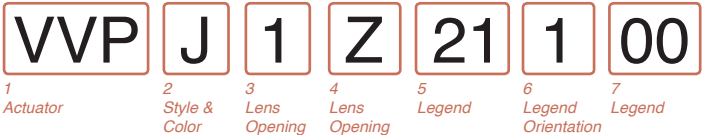
Contura X, XI & XII actuator lens assembly:



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 must be chosen.
 - 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:



1 CONTURA XII ACTUATOR SEPARATELY
VVP

2 ACTUATOR STYLE & COLOR

| | | | | | | | |
|---|-------|---|------|---|-------|---|-----|
| J | Black | K | Gray | N | White | M | Red |
|---|-------|---|------|---|-------|---|-----|

3,4 LENS OPENING FOR

Z No lens 1 Bar lens 2 Square lens

5, 7 LENS OR BODY LEGEND²

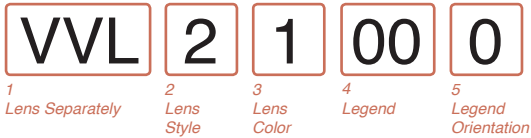
00 - No Legend 21 22 23 24
OFF ON O I
25 O 26 O 27 O 28 I
F N
F

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

6 LEGEND ORIENTATION³

0 No legend
1 Orientation 1
2 Orientation 2

Contura X, XI & XII actuator lens assembly separately:



1 CONTURA X, XI & XII LENS SEPARATELY
VVL

2 LENS STYLE³

1 Bar lens 2 One Piece Square lens 3 Bottom of Two-Piece Square lens⁵

3 TRANSLUCENT LENS COLOR

1 Clear 2 White 3 Amber 4 Green⁴ 5 Red 6 Blue⁴

4 LENS OR BODY LEGEND²

00 - No Legend 21 22 23 24
OFF ON O I
25 O 26 O 27 O 28 I
F N
F

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

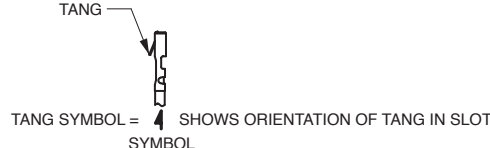
5 LEGEND ORIENTATION³

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

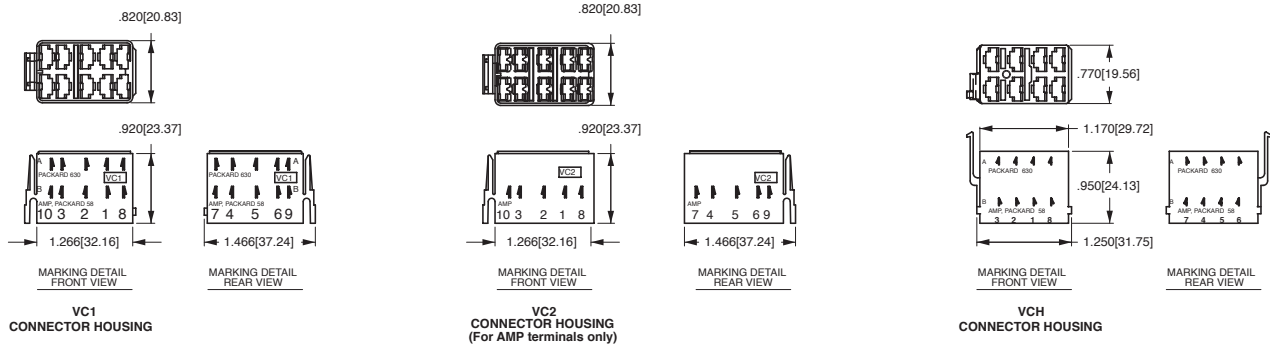
Easily integrate Contura products into your system, with Contura Accessories

Contura Connectors

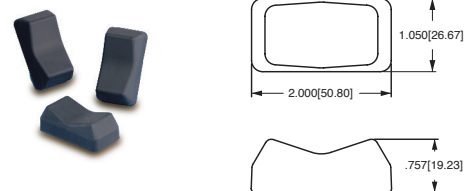
| Q.C. SELECTION GUIDE | | | | | |
|-------------------------------|-------------|------------------|------------|-----------------------|-------------|
| COMPANY SERIES | PART NO | | WIRE RANGE | | ORIENTATION |
| | PLAIN BRASS | TIN PLATED BRASS | AWG | MM ² (REF) | |
| PACKARD 58 SERIES | 02965580 | | 12 | 3.0 | B |
| | 02965471 | 12010601 | (2)16-14 | (2)1.0-2.0 | |
| | 02965470 | | 16-14 | 1.0-2.0 | |
| | 02965469 | 06288318 | 20-18 | .5-.8 | |
| PACKARD METRI-PACK 630 SERIES | | 12084590 | 10 | 5.0 | A |
| | | 12052224 | 12 | 3.0 | |
| | | 12015870 | 16-14 | 1.0-2.0 | |
| | | 12020035 | (2)22-18 | (2).5-.8 | |
| | | 12015832 | 20-18 | .5-.8 | |
| AMP 250 SERIES FASTIN-FASTON | | 12052222 | 20-22 | .35-.5 | B |
| | 60253-1 | 60253-2 | 16-12 | 1.3-3 | |
| | 42100-1 | 42100-2 | (2) 16 | (2) 1.3 | |
| | 60295-1 | 60295-2 | 18-14 | .8-2 | |
| | | | 22-18 | .3-.9 | |



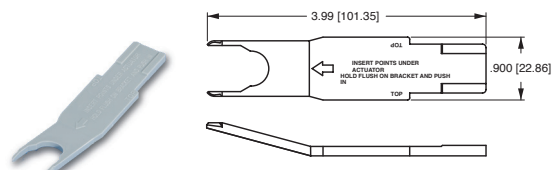
NOTE: Consult Delphi Packard and/or Amp on actual part numbers and availability. AMP is a registered trademark of AMP Inc. Harrisburg, PA. Delphi Packard is a registered trademark of Delphi-Packard Electrical Systems Warren, Ohio



Contura X Boot (P/N VB1-01)



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

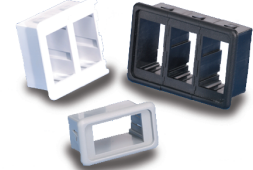


Additional V-Series Ratings

- 1 .4VA @ 28VDC Resistive
- 4 10A 250VAC 1/2 HP, 15A 125 VAC 1/2 HP, No Agency Listings
- 5¹ 10A 250VAC 1/2 HP, 15A 125 VAC 1/2 HP, UL Recognized, CSA Certified
- 6² 15A 125VAC 1/2 HP, 12(2)A 125 VAC μ T85
- 7² 15A 125VAC 1/2 HP, 12(6)A 125 VAC T85
- 8² 10A 250VAC, 15A 125VAC, 1/2 HP 125-250VAC, 12(2)A 250 VAC μ T85
- 9² 10A 250VAC, 15A 125VAC, 1/2 HP 125-250VAC, 12(6)A 250 VAC T85
- B 15A 24V
- C 20A 18V
- D 20A 12V
- E 20A 14V, 10A 14VT (circuits 1, 4, A, & D only)
- F 10A 14V, 6A, 14VT (circuit G only)
- G 20A 6V
- H 20A 3V
- L 15A 125 VAC, 10A 250VAC, 1/2 HP 125-250 VAC; 6A 125 VAC L
- M .4VA/20A 12V (combi-contact)
(combination gold/silver contacts for borderline dry circuit applications)
- N .4VA/15A 24V (combi-contact)
(combination gold/silver contacts for borderline dry circuit applications)

NOTES
 Consult factory to determine availability for individual circuits and their HP rating.
 1. Not available with Contura 7 or 14 rocker styles.
 2. Ratings 6 - 9 are UL, CSA & VDE certified, require terminations A or B for double pole circuits, & are not available with illumination circuits 4, 8, D, J, N, & T or with wire lead or solder lug terminations.
 Circuits 1, 4, A, D, H, M & E are not available with rating 6 & 8. Rating 7 & 9 only available with circuits 1, 4, A & D. Circuits 2, 3, 5, 7, 8, K, L are 1/2 HP 250VAC only with rating 8. Ratings 6 & 7 must specify lamp code 1 (125VAC neon). Ratings 8 & 9 must specify lamp code 2 (250VAC neon). Rating L available with circuits 1, 4, A & D only.

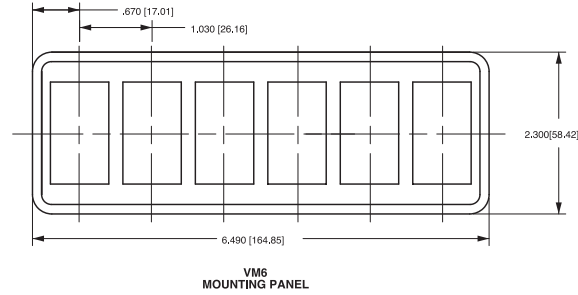
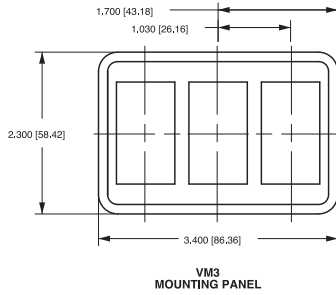
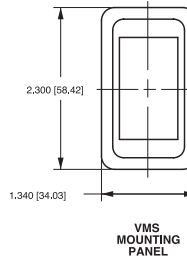
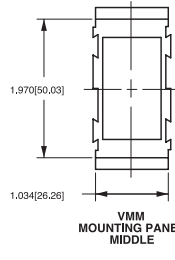
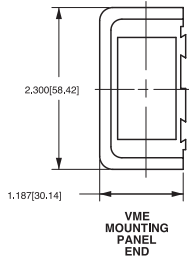
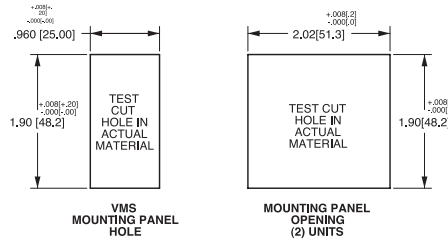
Contura Mounting Panels Dimensional Specifications: in. [mm]



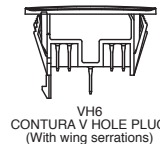
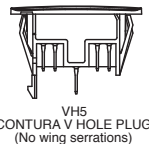
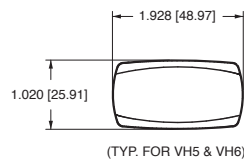
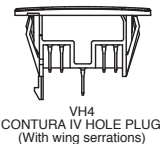
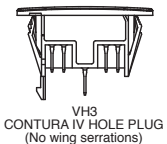
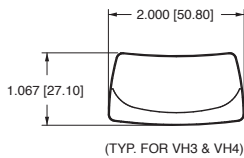
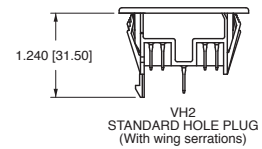
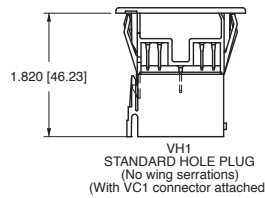
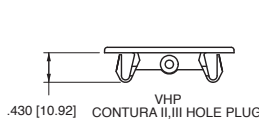
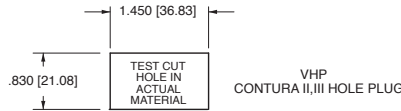
MOUNTING PANEL
For additional units, add 1.03[26.2] per unit.
For more than 2 V-Series Switches, add
middle section. Available in Panel Thicknesses
listed below. Consult factory.

MOUNTING PANEL THICKNESS

| | |
|------------|------------|
| .062[1.57] | .187[4.75] |
| .093[2.36] | .250[6.35] |
| .125[3.17] | .375[9.52] |



Contura Hole Plug Dimensional Specifications: in. [mm]



* Intentionally left blank

Worldwide Headquarters

Carling Technologies, Inc.
60 Johnson Avenue • Plainville, CT 06062
Phone: (860) 793-9281 • Fax: (860) 793-9231
Email: sales@carlingtech.com • www.carlingtech.com

East Region Sales Office, CT • ersm@carlingtech.com
Midwest Region Sales Office, IL • mrs@carlingtech.com
West Region Sales Office, CA • wrsm@carlingtech.com

Asia-Pacific Headquarters

Carling Technologies, Asia-Pacific Ltd.,
Kowloon, Hong Kong
Int + 852-2737-2277 • Fax: Int + 852-2736-9332
Email: sales@carlingtech.com.hk

Shenzhen, China • shenzhen@carlingtech.com
Shanghai, China • shanghai@carlingtech.com
Pune, India • india@carlingtech.com
Kaohsiung, Taiwan • taiwan@carlingtech.com
Yokohama, Japan • japan@carlingtech.com

Europe / Middle East / Africa Headquarters

Carling Technologies LTD
4 Airport Business Park, Exeter Airport,
Clyst Honiton, Exeter, Devon, EX5 2UL, UK
Int + 44 1392-364422 • Fax: Int + 44 1392-364477
Email: ltd.sales@carlingtech.com

GmbH, Germany • gmbh@carlingtech.com
SAS, France • sas@carlingtech.com

REV_SW_V_06_2014



Carling Technologies™

Innovative Designs. Powerful Solutions.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [Rocker Switches](#) category:

Click to view products by [Carling](#) manufacturer:

Other Similar products are found below :

[LTI LA6E-1S-WH-RC-FN12VXCR1](#) [6-1571986-9](#) [8007K26N324V52](#) [8055K32Z7V](#) [8055K52Z7V](#) [8138K20E6M50](#) [84206L](#) [84312LX](#)
[PREDD5-07F-BB0GW](#) [999-16716-002](#) [999-16716-003](#) [999-16716-004](#) [A101J1V3Q004](#) [A101J2ZQ004](#) [A101J4ZQ004](#) [A101J51CB0004](#)
[A103J1ZQ004](#) [A201J1AQ004](#) [A201J3ZB004](#) [A201J50ZQ004](#) [A203J51ZQ0004](#) [A435S1YZQ](#) [H8500XBBBBBL-A](#) [H8653VBBG2577W](#)
[HB130CHNWWNAAC](#) [R13112ABB-602W](#) [1251.0303](#) [AE205J60V3B004](#) [1352.0107](#) [1571099-3](#) [1571987-4](#) [1571987-5](#) [1571989-7](#)
[1571988-5](#) [B123J77V7B2](#) [B226J50W4Q22P](#) [B433J37ZQ22M](#) [160212E](#) [1634200-7](#) [1801.1164](#) [1839.1502](#) [PANEL-PLUG-VHP-BLACK](#)
[PANEL-PLUG-VHP-WT](#) [K1ABBSCADN](#) [KG312A2DXD246X](#) [250011E714](#) [2600HM11E](#) [2600R21E](#) [2637LH/2A7/122048L0](#)
[2639LH/2A7/127000L0](#)