The V-Series Contura IV, V, & VII snap-in rocker switches offer countless unique options including choices for ratings, circuits, colors, illuminations and symbols. These single or double pole switches feature removable actuators in a choice of actuator styles and colors, and can be illuminated with either oval or bar shaped lenses. Actuators may also be purchased and stocked separately. An optional plug-in terminal connector enables pre-wiring of wire harnesses.

The Contura switches with sealed option, are certified to IP66/68, signifying complete protection against dust and prolonged spray and submersion under pressure, and are recognized to UL1500 - Ignition Protection for Marine Products. These switches are vibration, shock, thermoshock, moisture and salt spray resistant. Temperature ratings range from -40°C to +85°C.

**Product Highlights:**
- Countless options for ratings, circuits, colors, illuminations and legends
- Sealed to IP66/68 for Above-Panel Components
- Vibration, shock, thermoshock, moisture and salt spray resistant
- Temperature range from -40°C to +85°C.

**Typical Applications:**
- On/Off Highway Equipment
- Marine
- Military Armored Vehicles
- Mining Machinery and Equipment
- Any application requiring environmental protection

Resources:
- Configure a Complete Part
- Download CAD & Sales Drawing
- Watch Product Video

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 sealed to IP66/68 for above-panel components.

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

OPTIONAL PANEL SEAL
Helps prevent water/dust ingress behind panel.

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

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

SILVER PLATED BUTT CONTACT MECHANISM
Providing 50k to 100k electrical cycles, circuit and load dependent.

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

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 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 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 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.

Illuminated Indicators & Accessories
Alert operator of systems functions or malfunctions, are offered with removable/replaceable lamps in Contura II, II, V or X styles. Accessories include connectors, mounting panels, hole plugs, panel seals, and actuator removal tools. Refer to accessories page for full details.
### Electrical
- **Contact Rating**
  - .4VA @ 24VDC (MAX) resistive
  - 15 amps, 125VAC
  - 10 amps, 250VAC
  - 1/2 HP 125-250VAC
  - 20 amps, 4-14VDC
  - 15 amps, 15-28VDC
  - 10A, 14V
  - 6A, 125VAC L

- **Dielectric Strength**
  - 1500 Volts RMS

- **Insulation Resistance**
  - 50 Megohms

- **Initial Contact Resistance**
  - 10 milliohms max. @ 4VDC

- **Life**
  - Up to 100,000 cycles, circuit and load dependent

- **Contacts**
  - Silver alloy, silver tin-oxide, fine silver

- **Terminals**
  - Brass or copper/silver plate 1/4” (6.3mm) Quick Connect terminations standard. Solder lug, Wire Lead

### Physical
- **Lighted**
  - Incandescent - rated 10,000 hours
  - Neon - rated 25,000 hours
  - LED - rated 100,000 hours 1/2 life
  - (LED is internally ballasted for voltages to 24VDC)

- **Seals**
  - Optional external gasket panel seal

- **Base**
  - Polymerblend 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
  - Polycarbonate rated at 100°C

- **Lens**
  - Polycarbonate lens/sub-rocker with ABS shell

- **Actuator Travel (Angular Displacement)**
  - 2 position: 16°
  - 3 positions: 9° from center

### Actuator Specifications
- **SWITCH MOUNTING HOLE TEST CUT HOLE IN ACTUAL MATERIAL**

### Agency Certifications
- **Electrical Agency Certifications**
  - UL, CE, cUL

### Environmental
- **Sealing**
  - IP66/68, for above-panel components of actual switch only.
  - Mixed Flowing Gas (MFG) Class III
  - 3 year accelerated exposure per ASTM B-827, B-845 Silver and gold contacts

- **Corrosion**
  - -40°C to +85°C
  - Per Mil-Std 202F, Method 204D
  - Test Condition A 0.06 DA or 10G’s
  - 10-500 Hz. Test with VCH connector.
  - Test criteria - No loss of circuit during test, pre and post test contact resistance.

- **Operating Temp.**
  - Vibration 1
    - 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.

  - Vibration 2
    - Per Mil-Std 202F, Method 213B, Test Condition K @ 30G’s
    - Tested with VCH connector.
    - Test criteria - No loss of circuit during test, pre and post test contact resistance.

  - Salt Spray
    - Per Mil-Std 202F, Method 101D, Test Condition A, 96 Hrs.
    - Sealed version only.
    - Mil STD 810, Method 510.2 Air Velocity 300 Ft/Min Duration 16Hr
    - Per Mil-Std 202F, Method 107F, Test Cond. A, -55°C to +85°C.
    - Test criteria - pre and post test contact resistance
    - Per Mil-Std 202F, Method 106F, Test Criteria - pre and post test contact resistance

  - 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.
### 1 SERIES

V

### 2 CIRCUIT

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

<table>
<thead>
<tr>
<th>8</th>
<th>7</th>
<th>6</th>
<th>5</th>
<th>4</th>
<th>3</th>
<th>2</th>
<th>1</th>
</tr>
</thead>
<tbody>
<tr>
<td>8 - 7</td>
<td>8 - 7</td>
<td>Terminals 7, 8, 9 &amp; 10 for lamp circuit only.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 - 4</td>
<td>1 - 4</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2 - 5</td>
<td>2 - 5</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3 - 6</td>
<td>3 - 6</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10 - 9</td>
<td>10 - 9</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Position:

<table>
<thead>
<tr>
<th>1</th>
<th>2</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2, 3 &amp; 5 &amp; 6</td>
<td>Connected Terminals 1 &amp; 2, 4 &amp; 5</td>
</tr>
</tbody>
</table>

### 3 RATING

<table>
<thead>
<tr>
<th>1</th>
<th>2</th>
</tr>
</thead>
<tbody>
<tr>
<td>.4VA/28VDC Resistive</td>
<td>15A 24V</td>
</tr>
<tr>
<td>B</td>
<td>20A 18V</td>
</tr>
<tr>
<td>C</td>
<td>20A 18V</td>
</tr>
<tr>
<td>D</td>
<td>20A 18V</td>
</tr>
<tr>
<td>E</td>
<td>20A 14V, 10A 14VT (circuit 1, 4, A &amp; D only)</td>
</tr>
<tr>
<td>F</td>
<td>10A 14V, 6A 14VT (circuit G only)</td>
</tr>
<tr>
<td>G</td>
<td>.4VA/15A 24V</td>
</tr>
<tr>
<td>H</td>
<td>.4VA/15A 24V</td>
</tr>
</tbody>
</table>

### 4 TERMINATION / BASE STYLE

| 8 term 10 Term |
|---|---|
| Jumper |

### 5 ILLUMINATION & SWITCH SEALING

<table>
<thead>
<tr>
<th>5</th>
<th>4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lamp #1 above terminals 1 &amp; 4 end of switch.</td>
<td>Lamp #2 above terminals 3 &amp; 6 end of switch.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>5</th>
<th>4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lamp wired to Terminals</td>
<td></td>
</tr>
</tbody>
</table>

### 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 3 4V 5 6V 7 12V 8 24V
LED: 12 Red 13 Green 14 Blue
Red 12 Amber 13 Green 14 Blue
2VDC A 15 F 16 R
6VDC B 17 M 18 G
12VDC C 19 N 20 T
24VDC D 21 J 22 V
Consul factory for “daylight bright” LED options. Typical current draw for LED is 20mA.

### 8 FLUSH BRACKET COLOR 1 PANEL SEAL

<table>
<thead>
<tr>
<th>11</th>
<th>10</th>
</tr>
</thead>
<tbody>
<tr>
<td>Black</td>
<td>White</td>
</tr>
<tr>
<td>White</td>
<td>Gray</td>
</tr>
</tbody>
</table>

### 9 ACTUATOR

<table>
<thead>
<tr>
<th>0</th>
<th>1</th>
</tr>
</thead>
<tbody>
<tr>
<td>No Actuator</td>
<td>1,5,6</td>
</tr>
</tbody>
</table>

### 10 LENS

<table>
<thead>
<tr>
<th>0</th>
<th>1</th>
</tr>
</thead>
<tbody>
<tr>
<td>No Lens</td>
<td>Clear</td>
</tr>
</tbody>
</table>

### 12 ACTUATOR LENS OR BODY LEGENDS

<table>
<thead>
<tr>
<th>12</th>
<th>11</th>
</tr>
</thead>
<tbody>
<tr>
<td>Body Legend</td>
<td></td>
</tr>
</tbody>
</table>

### 13 LEGEND ORIENTATION

<table>
<thead>
<tr>
<th>0</th>
<th>1</th>
</tr>
</thead>
<tbody>
<tr>
<td>No Legend</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>1</th>
<th>2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Orientation 1</td>
<td></td>
</tr>
</tbody>
</table>

### 14 ACTUATOR LENS LEGEND

<table>
<thead>
<tr>
<th>0</th>
<th>1</th>
</tr>
</thead>
<tbody>
<tr>
<td>No Legend</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>6</th>
<th>5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pewter</td>
<td>Color</td>
</tr>
</tbody>
</table>

For other legend options & codes, visit us at www.carlingtech.com.
### 2 CIRCUIT

Terminal Connections as viewed from bottom of switch:
- **Series**: single pole - uses terminals 1, 2 & 3.
- **Series 5**: double pole uses terminals 1, 2, 3, 4, 5 & 6.

#### 8 terminal 10 terminal
- **Series 3 & 6**: terminals 7, 8, 9 & 10 for lamp circuit only.
- **Series 5 & 6**: terminals 2 & 3, 5 & 6 for circuits E and R.
- **Series 7 & 6**: terminals 1 & 2, 4 & 5.

### 3 RATING

<table>
<thead>
<tr>
<th>Term</th>
<th>Rating</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>7.4VA @ 28VDC Resistive</td>
<td></td>
</tr>
<tr>
<td>B</td>
<td>15A 24V</td>
<td></td>
</tr>
<tr>
<td>C</td>
<td>20A 18V</td>
<td></td>
</tr>
<tr>
<td>D</td>
<td>20A 12V</td>
<td></td>
</tr>
<tr>
<td>E</td>
<td>10A 14V, 10A 14VT (circuit A &amp; D only)</td>
<td></td>
</tr>
<tr>
<td>F</td>
<td>10A 14V, 6A 14VT (circuit G only)</td>
<td></td>
</tr>
<tr>
<td>G</td>
<td>4.5VA 20A 12V</td>
<td></td>
</tr>
<tr>
<td>H</td>
<td>4.5VA 15A 24V</td>
<td></td>
</tr>
</tbody>
</table>

### 4 TERMINATION / BASE STYLE

<table>
<thead>
<tr>
<th>Term</th>
<th>Style</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>250 TAB (QC) no barriers</td>
<td></td>
</tr>
<tr>
<td>B</td>
<td>250 TAB (QC) with barriers</td>
<td>No</td>
</tr>
<tr>
<td>C</td>
<td>Solder Lug no barriers</td>
<td>No</td>
</tr>
<tr>
<td>D</td>
<td>Solder Lug</td>
<td>No</td>
</tr>
<tr>
<td>E</td>
<td>Wire Leads no barriers</td>
<td>No</td>
</tr>
<tr>
<td>F</td>
<td>Wire Leads</td>
<td>No</td>
</tr>
</tbody>
</table>

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

### 5 ILLUMINATION & SWITCH SEALING

<table>
<thead>
<tr>
<th>Lamp #1 above terminals 1 &amp; 4</th>
<th>Lamp #2 above terminals 3 &amp; 6</th>
<th>Positive (+) and negative (-) symbols apply to LED lamps only</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sealed</td>
<td>Unsold</td>
<td>Lamp</td>
</tr>
<tr>
<td>A</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>B</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>C</td>
<td>3</td>
<td>1</td>
</tr>
<tr>
<td>D</td>
<td>4</td>
<td>1</td>
</tr>
<tr>
<td>E</td>
<td>5</td>
<td>1</td>
</tr>
<tr>
<td>F</td>
<td>6</td>
<td>1</td>
</tr>
<tr>
<td>G</td>
<td>7</td>
<td>1</td>
</tr>
<tr>
<td>H</td>
<td>7</td>
<td>1</td>
</tr>
<tr>
<td>I</td>
<td>7</td>
<td>1</td>
</tr>
<tr>
<td>J</td>
<td>7</td>
<td>1</td>
</tr>
<tr>
<td>K</td>
<td>7</td>
<td>1</td>
</tr>
<tr>
<td>L</td>
<td>7</td>
<td>1</td>
</tr>
<tr>
<td>M</td>
<td>7</td>
<td>1</td>
</tr>
<tr>
<td>N</td>
<td>7</td>
<td>1</td>
</tr>
<tr>
<td>P</td>
<td>7</td>
<td>1</td>
</tr>
</tbody>
</table>

**Lamp #2 above terminals 1, 2 & 3**

- **Series 3 & 6**: terminals 7, 8, 9 & 10 for lamp circuit only.
- **Series 5 & 6**: terminals 2 & 3, 5 & 6 for circuits E and R.
- **Series 7 & 6**: terminals 1 & 2, 4 & 5.

### 6.7 LAMP (SAME CODING FOR BOTH SELECTIONS)

<table>
<thead>
<tr>
<th>Series 3 &amp; 6</th>
<th>Selection 7: above terminals 3 &amp; 6</th>
</tr>
</thead>
<tbody>
<tr>
<td>No lamp</td>
<td>V</td>
</tr>
<tr>
<td>Neon</td>
<td>V</td>
</tr>
<tr>
<td>Incandescent LED*</td>
<td>4.3V 5.6V 6.12V 7.18V 8.24V</td>
</tr>
<tr>
<td>Red Amber</td>
<td>2VDC A 1 2 3 4 5 6 7 8 9 10</td>
</tr>
<tr>
<td>Superbrighth Green Red</td>
<td>12VDC C 1 2 3 4 5 6 7 8 9 10</td>
</tr>
<tr>
<td>Red</td>
<td>24VDC D 1 2 3 4 5 6 7 8 9 10</td>
</tr>
</tbody>
</table>

*Consult factory for ‘daylight bright’ LED options. Typical current draw for LED is 20mA.

### 8 FLUSH BRACKET COLOR 1, PANEL SEAL

- **Black** | B |
- **White** | W |
- **Gray** | G |

### 9 ACTUATOR

- **No Actuator** | 0 |
- **Contura V** | G |
- **Laser etched** | P |

### 10 Lens

- **Clear White** | 1 |
- **Amber** | 2 |
- **Green** | 3 |
- **Red** | 5 |
- **Blue** | 6 |

### 11 ACTUATOR COLOR

- **Black** | C |
- **Nickel** | D |
- **Pewter** | E |

### 12 ACTUATOR LENS OR BODY LEGENDS

- **ON** | 11 |
- **OFF** | 13 |
- **I** | 15 |

### 13 LEGEND ORIENTATION

- **No legend** | 0 |
- **Orientation 1** | 1 |
- **Orientation 2** | 3 |
- **Orientation 4** | 5 |

### 14 ACTUATOR LENS LEGEND

- **No legend** | 00 |
- **Orientation 1** | 1 |
- **Orientation 2** | 3 |
- **Orientation 4** | 5 |

Notes:
- Consult factory to verify horsepower rating for your particular circuit choice.
- Custom colors are available. Consult factory.
- Additional ratings available. See V-Series Switch Accessories page.
- Contact Laser Etched rocker only available with laser code 2 & 3 actuator colors black, nickel or pewter.
# V-Series Contura Sealed Rocker Switches - Contura IV & V Locking - Ordering Scheme

<table>
<thead>
<tr>
<th>1 Series</th>
<th>V</th>
<th>7 Lamp</th>
<th>Lamp above terminals 3 &amp; 6 end of switch</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 Circuit</td>
<td>D</td>
<td>8 Flush Bracket Color 1, Panel Seal</td>
<td></td>
</tr>
<tr>
<td>3 Rating</td>
<td>S</td>
<td>9 Hard Surface Actuator</td>
<td></td>
</tr>
<tr>
<td>4 Termination</td>
<td>W</td>
<td>Contura IV:</td>
<td></td>
</tr>
<tr>
<td>5 Illumination &amp; Switch Sealing</td>
<td>B</td>
<td>Orientation: Black Gray Red White</td>
<td></td>
</tr>
<tr>
<td>6 Lock</td>
<td>J</td>
<td>Left: J K L M</td>
<td></td>
</tr>
<tr>
<td>7 Bracket</td>
<td>Z</td>
<td>Right: N P R S</td>
<td></td>
</tr>
<tr>
<td>8 Actuator</td>
<td>E</td>
<td>10 Lens 5</td>
<td></td>
</tr>
<tr>
<td>9 Actuator Location and Color 1</td>
<td>0</td>
<td>Z - No Lens</td>
<td></td>
</tr>
<tr>
<td>10 Function</td>
<td>B</td>
<td>Clear White Amber Green Red Blue</td>
<td></td>
</tr>
<tr>
<td>12 Actuator Lens or Body Legend 2</td>
<td>J</td>
<td>A B C D E F</td>
<td></td>
</tr>
<tr>
<td>13 Legend Orientation</td>
<td>0</td>
<td>G H J K L M</td>
<td></td>
</tr>
</tbody>
</table>

## 1 Series
- V

## 2 Circuit
### Terminal Connections as viewed
- SP - single pole - uses terminals 1, 2 & 3.
- DP - double pole uses terminals 1, 2, 3, 4, 5 & 6.

### Position
- 1: SP DS 2 & 3, 5 & 6 Connected Terminals 1 & 2, 4 & 5
- 2: OFF
- 3: TERMINATION / BASE STYLE

### Orientation
- Legend: Orientation 1 to 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.
- Located at T3-6 end of switch.
- Contura V style only.

### Terminations
- Series
- Circuit
- Rating
- Termination
- Illumination
- Lock

## 3 Rating
### CIRCUIT 3
- 1: .4VA @ 28VDC Resistive
- 2: 20A 18V
- 3: 20A 12V
- 4: 10A 14V, 6A 14VT (circuit G only)
- 5: 20A 14V, 10A 14VT (circuit 1, 4, A & D only)
- 6: 4VA/20A 12V
- 7: 4VA/15A 24V

## 4 Termination / Base Style
### Orientation
- Orientation 1 to Orientation 4

### Legend
- Orientation 1
- Orientation 2
- Orientation 3
- Orientation 4

## 5 Illumination & Switch Sealing
### Lamp Type
- 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.

### Lighting Type
- Sealed
- Unsealed

### Lamp to Terminals
- Lamp wired to Terminals

### Lock
- Lock above terminals 1 & 4 end of switch.
- W: low profile lock
- V: high profile lock

## 7 Lamp
- Lamp above terminals 3 & 6 end of switch
- No lamp
- Neon
- Incandescent

### LED
- 24VDC
- 12VDC
- 6VDC

## 8 Flush Bracket Color 1, Panel Seal
- No Seal
- C: Black
- Y: White
- G: Gray
- Red

## 9 Hard Surface Actuator
### Contura IV:
- Orientation: Black Gray Red White
- Left: J K L M
- Right: N P R S

### Contura V:
- Orientation: Black Gray Red White

## 10 Lens 5
- Z - No Lens
- Clear
- Amber
- Green
- Red
- Blue
- Oval lens

### Lens Color
- LED: superbright
- Incandescent
- Neon
- No Lamp

## 11 Actuator Lock Function and Color 1
### Lock Color
- Up
- Down
- Up & Down/Center

### Match Actuator
- A B C D E F

### Bar Lens
- G H J K L M

## 12 Actuator Lens or Body Legend 2
### 00 - No Legend
- 0: No legend
- 1: Orientation 1
- 2: Orientation 2
- 3: Orientation 3
- 4: Orientation 4

## 13 Legend Orientation
- 0
- 1
- 2
- 3
- 4

### Contact Information
- Email: sales@carlingtech.com
- Application Support: team2@carlingtech.com
- Phone: (860) 793–9281
- Fax: (860) 793–9231
- www.carlingtech.com
### V-Series Contura Sealed Rocker Switches - Contura VII - Ordering Scheme

#### 1 SERIES

V

#### 2 CIRCUIT

**Position:**

<table>
<thead>
<tr>
<th>Terminal</th>
<th>SP</th>
<th>DP</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>A</td>
<td>ON</td>
</tr>
<tr>
<td>2</td>
<td>B</td>
<td>(ON)</td>
</tr>
<tr>
<td>3</td>
<td>C</td>
<td>OFF</td>
</tr>
<tr>
<td>4</td>
<td>D</td>
<td>ON</td>
</tr>
<tr>
<td>5</td>
<td>E</td>
<td>NONE</td>
</tr>
<tr>
<td>6</td>
<td>F</td>
<td>ON</td>
</tr>
<tr>
<td>7</td>
<td>G</td>
<td>OFF</td>
</tr>
<tr>
<td>8</td>
<td>H</td>
<td>ON</td>
</tr>
<tr>
<td>9</td>
<td>I</td>
<td>OFF</td>
</tr>
<tr>
<td>10</td>
<td>J</td>
<td>ON</td>
</tr>
</tbody>
</table>

**Circuit E** may be used for SP OFF-ON-ON circuit.

*Jumper between terminals 2 & 5 for circuits H, G, M, R & S are specified in selection 4.

#### 3 RATING

1. **.4VA @ 28VDC Resistive**
2. **15A 24V**
3. **20A 18V**
4. **20A 14V**
5. **10A 14V**
6. **6A 14VT**
7. **20A 12V**
8. **10A 12VT**
9. **5A 12V**
10. **2.5A 12V**
11. **1.5A 12V**
12. **.8A 12V**
13. **.5A 12V**
14. **.3A 12V**
15. **.2A 12V**
16. **1A 24V**
17. **1A 250VAC**
18. **1A 125VAC**
19. **1A 60VDC**
20. **1A 30VDC**
21. **1A 15VDC**
22. **.5A 15VDC**
23. **.25A 15VDC**
24. **.25A 12VDC**
25. **.25A 15VDC**
26. **.15A 12VDC**
27. **.15A 15VDC**
28. **.15A 9VDC**
29. **.15A 6VDC**
30. **.15A 3VDC**
31. **.15A 2VDC**
32. **.15A 1VDC**
33. **.15A 0.5VDC**
34. **.15A 0.1VDC**
35. **.15A 0.05VDC**
36. **.15A 0.01VDC**
37. **.15A 0.005VDC**
38. **.15A 0.002VDC**
39. **.15A 0.001VDC**
40. **.15A 0.0005VDC**
41. **.15A 0.0002VDC**
42. **.15A 0.0001VDC**
43. **.15A 0.00005VDC**
44. **.15A 0.00002VDC**
45. **.15A 0.00001VDC**
46. **.15A 0.000005VDC**
47. **.15A 0.000002VDC**
48. **.15A 0.000001VDC**
49. **.15A 0.0000005VDC**
50. **.15A 0.0000002VDC**
51. **.15A 0.0000001VDC**
52. **.15A 0.00000005VDC**
53. **.15A 0.00000002VDC**
54. **.15A 0.00000001VDC**
55. **.15A 0.000000005VDC**
56. **.15A 0.000000002VDC**
57. **.15A 0.000000001VDC**
58. **.15A 0.0000000005VDC**
59. **.15A 0.0000000002VDC**
60. **.15A 0.0000000001VDC**
61. **.15A 0.00000000005VDC**
62. **.15A 0.00000000002VDC**
63. **.15A 0.00000000001VDC**
64. **.15A 0.000000000005VDC**
65. **.15A 0.000000000002VDC**
66. **.15A 0.000000000001VDC**
67. **.15A 0.0000000000005VDC**
68. **.15A 0.0000000000002VDC**
69. **.15A 0.0000000000001VDC**
70. **.15A 0.00000000000005VDC**
71. **.15A 0.00000000000002VDC**
72. **.15A 0.00000000000001VDC**

#### 4 TERMINATION / BASE STYLE

<table>
<thead>
<tr>
<th>Legend</th>
<th>Orientation</th>
<th>Style</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Orientation 1</td>
<td>NO</td>
</tr>
<tr>
<td>2</td>
<td>Orientation 2</td>
<td>NO</td>
</tr>
<tr>
<td>3</td>
<td>Orientation 3</td>
<td>NO</td>
</tr>
<tr>
<td>4</td>
<td>Orientation 4</td>
<td>NO</td>
</tr>
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#### 5 ILLUMINATION & SWITCH SEALING

<table>
<thead>
<tr>
<th>Lamp</th>
<th>Sealed</th>
<th>Unsealed</th>
<th>Illumination Type</th>
<th>Lamp wired to Terminals</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>NONE</td>
<td>1</td>
<td>INDEPENDENT</td>
<td>8 (+) 7 (-)</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>1</td>
<td>INDEPENDENT</td>
<td>3 (+) 7 (-)</td>
</tr>
<tr>
<td>2</td>
<td>B</td>
<td>1</td>
<td>DOWN</td>
<td>3 (+) 7 (-)</td>
</tr>
<tr>
<td>3</td>
<td>C</td>
<td>1</td>
<td>UP</td>
<td>3 (+) 7 (-)</td>
</tr>
<tr>
<td>4</td>
<td>D</td>
<td>1</td>
<td>DOWN</td>
<td>6 (+) 7 (-)</td>
</tr>
<tr>
<td>5</td>
<td>E</td>
<td>1</td>
<td>UP</td>
<td>6 (+) 7 (-)</td>
</tr>
<tr>
<td>6</td>
<td>F</td>
<td>1</td>
<td>DOWN</td>
<td>1 (+) 7 (-)</td>
</tr>
<tr>
<td>7</td>
<td>G</td>
<td>1</td>
<td>UP</td>
<td>1 (+) 7 (-)</td>
</tr>
<tr>
<td>8</td>
<td>H</td>
<td>1</td>
<td>DOWN</td>
<td>8 (+) 7 (-)</td>
</tr>
<tr>
<td>9</td>
<td>I</td>
<td>1</td>
<td>UP</td>
<td>8 (+) 7 (-)</td>
</tr>
<tr>
<td>10</td>
<td>J</td>
<td>1</td>
<td>INDEPENDENT</td>
<td>10 (+) 9 (-)</td>
</tr>
<tr>
<td>11</td>
<td>K</td>
<td>1</td>
<td>DOUBLE POLE</td>
<td>3 (+) 6 (-)</td>
</tr>
<tr>
<td>12</td>
<td>L</td>
<td>1</td>
<td>SINGLE POLE</td>
<td>3 (+) 6 (-)</td>
</tr>
<tr>
<td>13</td>
<td>M</td>
<td>1</td>
<td>DOWN</td>
<td>2 (+) 6 (-)</td>
</tr>
<tr>
<td>14</td>
<td>N</td>
<td>1</td>
<td>UP</td>
<td>2 (+) 6 (-)</td>
</tr>
<tr>
<td>15</td>
<td>P</td>
<td>1</td>
<td>DOWN</td>
<td>3 (+) 6 (-)</td>
</tr>
<tr>
<td>16</td>
<td>Q</td>
<td>1</td>
<td>UP</td>
<td>3 (+) 6 (-)</td>
</tr>
</tbody>
</table>

**Lamp #1 above terminals 1 & 4 & end of switch.**

#### 6.7 LAMP (same coding for both selections)

<table>
<thead>
<tr>
<th>Circuit</th>
<th>Selection</th>
<th>Lamp Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 &amp; 4</td>
<td>0</td>
<td>Neon</td>
</tr>
<tr>
<td>3 &amp; 6</td>
<td>0</td>
<td>Red</td>
</tr>
<tr>
<td>0</td>
<td>0</td>
<td>Amber</td>
</tr>
<tr>
<td>0</td>
<td>0</td>
<td>Green</td>
</tr>
<tr>
<td>0</td>
<td>0</td>
<td>Superbright</td>
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</table>

#### 7 FLUSH BRACKET COLOR

<table>
<thead>
<tr>
<th>Color</th>
<th>Panel Seal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Black</td>
<td>No Seal</td>
</tr>
<tr>
<td>White</td>
<td>No Seal</td>
</tr>
<tr>
<td>Gray</td>
<td>No Seal</td>
</tr>
<tr>
<td>Red</td>
<td>No Seal</td>
</tr>
<tr>
<td>Blue</td>
<td>No Seal</td>
</tr>
</tbody>
</table>

#### 8 ACTUATOR COLOR

<table>
<thead>
<tr>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>Black</td>
</tr>
<tr>
<td>Blue</td>
</tr>
<tr>
<td>Red</td>
</tr>
<tr>
<td>Gray</td>
</tr>
<tr>
<td>Green</td>
</tr>
<tr>
<td>White</td>
</tr>
<tr>
<td>Black</td>
</tr>
<tr>
<td>Red</td>
</tr>
</tbody>
</table>

#### 9 ACTUATOR LENS COLOR

<table>
<thead>
<tr>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>Black</td>
</tr>
<tr>
<td>Blue</td>
</tr>
<tr>
<td>Red</td>
</tr>
<tr>
<td>Green</td>
</tr>
<tr>
<td>White</td>
</tr>
</tbody>
</table>

#### 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**

#### 11 ACTUATOR LENS OR BODY LEGENDS

<table>
<thead>
<tr>
<th>Legend</th>
<th>Orientation</th>
<th>Style</th>
</tr>
</thead>
<tbody>
<tr>
<td>12</td>
<td>Orientation</td>
<td>NO</td>
</tr>
</tbody>
</table>

#### 12 ACTUATOR LENS OR BODY LEGENDS

<table>
<thead>
<tr>
<th>Legend</th>
<th>Orientation</th>
<th>Style</th>
</tr>
</thead>
<tbody>
<tr>
<td>13</td>
<td>Orientation</td>
<td>NO</td>
</tr>
</tbody>
</table>

#### 13 LEGEND ORIENTATION

<table>
<thead>
<tr>
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<th>Orientation</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
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<tr>
<td>1</td>
<td>Orientation 2</td>
</tr>
<tr>
<td>2</td>
<td>Orientation 3</td>
</tr>
<tr>
<td>3</td>
<td>Orientation 4</td>
</tr>
</tbody>
</table>

#### 14 ACTUATOR LENS LEGEND

<table>
<thead>
<tr>
<th>Legend</th>
<th>Orientation</th>
</tr>
</thead>
<tbody>
<tr>
<td>00</td>
<td>Orientation 14</td>
</tr>
</tbody>
</table>

**Notes:**

- 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.

---

Phone: (860) 793–9281     Fax: (860) 793–9231     www.carlingtech.com
Dimensional Specifications: in. [mm]

**CONTURA IV**
- Shown with bar lens
- 10 terminal base w/o barriers
- 2,000 [50.80]
- 1,126 [28.60]

**CONTURA V**
- Shown with bar lens
- 8 terminal base w/o barriers
- 1,922 [48.76]
- 1,550 [39.37]
- 1,079 [27.40]

**CONTURA VII**
- Shown with large lens and bar lens
- 10 terminal base w/o barriers
- 1,922 [48.76]
- 1,479 [37.57]

---

**CONTURA IV**
- Shown with bar lens
- 10 terminal base w/o barriers
- 1,079 [27.40]
- .505 [12.83]

**CONTURA V**
- Shown with bar lens
- 8 terminal base w/barrriers
- 8 terminal base w/o barriers
- 1,020 [25.91]

**CONTURA VII**
- Shown with large lens and bar lens
- 10 terminal base w/o barriers
- 0.985 [25.02]
- .960 [24.38]

---

**CONTURA IV**
- Shown with bar lens
- 10 terminal base w/o barriers
- .960 [24.38]

**CONTURA V**
- Shown with low profile lock
- 8 terminal base w/o barriers
- .960 [24.38]

**CONTURA VII**
- Shown with large lens and bar lens
- 10 terminal base w/o barriers
- .960 [24.38]

---

**CONTURA IV**
- Switch shown with VCI connector 10 terminal
- 2.029 [51.53]

**CONTURA V**
- Switch shown with VCH connector 8 terminal
- 8 terminal base

**CONTURA VII**
- Switch shown with VCI connector 10 terminal
- Bottom view terminal arrangement 10 terminal base
- Bottom view terminal arrangement 8 terminal base
# Circuit Diagrams:

<table>
<thead>
<tr>
<th>CIRCUIT CODE</th>
<th>CIRCUIT DIAGRAM</th>
<th>CIRCUIT CODE</th>
<th>CIRCUIT DIAGRAM</th>
<th>CIRCUIT CODE</th>
<th>CIRCUIT DIAGRAM</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>![Diagram A]</td>
<td>2</td>
<td>![Diagram B]</td>
<td>3</td>
<td>![Diagram C]</td>
</tr>
<tr>
<td>4</td>
<td>![Diagram D]</td>
<td>5</td>
<td>![Diagram E]</td>
<td>6</td>
<td>![Diagram F]</td>
</tr>
<tr>
<td>7</td>
<td>![Diagram G]</td>
<td>8</td>
<td>![Diagram H]</td>
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</tbody>
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<table>
<thead>
<tr>
<th>SYMBOL LEGEND</th>
</tr>
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<tbody>
<tr>
<td>SYM.</td>
</tr>
<tr>
<td>●</td>
</tr>
<tr>
<td>○</td>
</tr>
<tr>
<td>—</td>
</tr>
<tr>
<td>---</td>
</tr>
<tr>
<td>——</td>
</tr>
<tr>
<td>——</td>
</tr>
</tbody>
</table>
### Lamp Circuit Diagrams:

<table>
<thead>
<tr>
<th>LAMP CIRCUIT CODE</th>
<th>CIRCUIT DIAGRAM</th>
<th>LAMP CIRCUIT CODE</th>
<th>CIRCUIT DIAGRAM</th>
<th>LAMP CIRCUIT CODE</th>
<th>CIRCUIT DIAGRAM</th>
<th>LAMP CIRCUIT CODE</th>
<th>CIRCUIT DIAGRAM</th>
</tr>
</thead>
<tbody>
<tr>
<td>A / 1</td>
<td>![A/1 Diagram]</td>
<td>F / 6</td>
<td>![F/6 Diagram]</td>
<td>L / 9</td>
<td>![L/9 Diagram]</td>
<td>SPECIAL #1</td>
<td>![Special#1 Diagram]</td>
</tr>
<tr>
<td>B / 2</td>
<td>![B/2 Diagram]</td>
<td>G / 7</td>
<td>![G/7 Diagram]</td>
<td>M / R</td>
<td>![M/R Diagram]</td>
<td>SPECIAL #3</td>
<td>![Special#3 Diagram]</td>
</tr>
<tr>
<td>C / 3</td>
<td>![C/3 Diagram]</td>
<td>H / Z</td>
<td>![H/Z Diagram]</td>
<td>N / T</td>
<td>![N/T Diagram]</td>
<td>SPECIAL #4</td>
<td>![Special#4 Diagram]</td>
</tr>
<tr>
<td>D / 4</td>
<td>![D/4 Diagram]</td>
<td>J / 8</td>
<td>![J/8 Diagram]</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>E / 5</td>
<td>![E/5 Diagram]</td>
<td>K / W</td>
<td>![K/W Diagram]</td>
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### J-Series Hazard Warning Circuit Diagrams:

<table>
<thead>
<tr>
<th>CIRCUIT CODE</th>
<th>CIRCUIT DIAGRAM</th>
<th>CIRCUIT CODE</th>
<th>CIRCUIT DIAGRAM</th>
</tr>
</thead>
<tbody>
<tr>
<td>J1</td>
<td>![J1 Diagram]</td>
<td>J5</td>
<td>![J5 Diagram]</td>
</tr>
<tr>
<td>J2</td>
<td>![J2 Diagram]</td>
<td>JA</td>
<td>![JA Diagram]</td>
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<tr>
<td>J3</td>
<td>![J3 Diagram]</td>
<td>JJ</td>
<td>![JJ Diagram]</td>
</tr>
<tr>
<td>J4</td>
<td>![J4 Diagram]</td>
<td>JK</td>
<td>![JK Diagram]</td>
</tr>
</tbody>
</table>

**NOTE:**

J circuits are available for all non-locking V-Series styles. Consult factory for part number details.
Reduce inventory levels and cost by stocking actuators and base switches separately.

Contura II, III, IV, V Actuator only: VV with code A or C for selection 9, & with selections 10-14 in the ordering schemes.
Contura VI Actuator with lenses and inserts only: VV with code selections 9-16
Contura 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:

<table>
<thead>
<tr>
<th>Style/Color</th>
<th>Lens Opening</th>
<th>Actuator Legend</th>
<th>Orientation</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 CONTURA X &amp; XI ACTUATOR SEPARATELY VVR</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Contura XII actuators without lenses separately:

<table>
<thead>
<tr>
<th>Style/Color</th>
<th>Lens Opening</th>
<th>Actuator Legend</th>
<th>Orientation</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 CONTURA XII ACTUATOR SEPARATELY VVP</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Lens Separately</th>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 TOP OF LENS SEPARATELY VVT</td>
<td></td>
</tr>
</tbody>
</table>

### Notes:
1. If actuator lens opening for 2 bar or 2 square lenses, legend orientation 0,1, or 2 must be chosen.
2. Center of actuator marking not available for Contura XII.
3. Legend is not available for bar style lens.
4. Not recommended with neon lamps.
5. Must also order top piece of 2 piece square lens separately.

Email: sales@carlingtech.com  Application Support: team2@carlingtech.com
Phone: (860) 793–9281  Fax: (860) 793–9231  www.carlingtech.com
Easily integrate Contura products into your system, with Contura Accessories

Contura Connectors

<table>
<thead>
<tr>
<th>COMPANY SERIES</th>
<th>PART NO.</th>
<th>WIRE RANGE</th>
<th>ORIENTATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>PACKARD 68 SERIES</td>
<td>02965580</td>
<td>02965471</td>
<td>02965470</td>
</tr>
<tr>
<td></td>
<td>12010601</td>
<td>16-14</td>
<td>16-14</td>
</tr>
<tr>
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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, VI & VII Actuator Removal Tool (P/N VRT)

Additional V-Series Ratings
1. .4VA @ 28VDC Resistive
2. 10A 250VAC 1/2 HP, 15A 125 VAC 1/2 HP, No Agency Listings
3. 10A 250VAC 1/2 HP, 15A 125 VAC 1/2 HP, UL Recognized, CSA Certified
4. 15A 24V
5. 20A 18V
6. 20A 12V
7. 20A 14V, 10A 14VT (circuits 1, 4, A, & D only)
8. 10A 14V, 6A, 14VT (circuit G only)
9. 20A 6V
10. 20A 3V
11. 15A 125 VAC, 10A 250VAC, 1/2 HP 125-250 VAC; 6A 125 VAC L
12. .4VA/20A 12V (combi-contact)
13. .4VA/15A 24V (combi-contact)

COMMENTS
combination gold/silver contacts for borderline dry circuit applications
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. Rating L available with circuits 1, 4, A & D only.
Contura Mounting Panels
Dimensional Specifications: in. [mm]

Contura Hole Plug
Dimensional Specifications: in. [mm]
Authorized Sales Representatives and Distributors

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

About Carling

Founded in 1920, Carling Technologies is a leading manufacturer of electrical and electronic switches and assemblies, circuit breakers, electronic controls, power distribution units, and multiplexed power distribution systems. With four ISO9001 and IATF16949 registered manufacturing facilities and technical sales offices worldwide, Carling Technologies Sales, Service and Engineering teams do much more than manufacture electrical components, they engineer powerful solutions! To learn more about Carling please visit www.carlingtech.com/company-profile.

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