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

**Product Highlights:**
- Certified to IP66/68 with dual seals around lamps and rocker stem.
- Silver plated butt contact mechanism provides reliability up to and beyond 100K electrical cycles.
- Greaseless construction withstands temperature extremes down to -40°C.
- The switch accommodates up to 10 terminals and endless illumination and circuit options.
- The switch connector allows the user to preload FQC terminals for ease of assembly.
- Numerous choices of removable rockers allow for style change without having to retest or re-qualify the switch base.

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

**Resources:**
- Download 3D CAD Files
  - IGS >
  - STP >
- Watch Product Video
V-Series Switch
DESIGN FEATURES

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

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

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

OPTIONAL PANEL SEAL
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 and a variety of different electrical ratings.

*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 Specifications

- **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**
  - 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 Specifications

- **Endurance**
  - 150,000 cycles minimum

### Physical Specifications

- **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

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

- **Lens**
  - Nylon 66 Reinforced rated to 105°C

### 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 (.76 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: IP66/68, this rating applies to front panel components of the actual switch only, and signifies complete protection against dust as well as powerful jets of water.

  - **Corrosion**
    - Mixed Flowing Gas (MFG) Class III
    - 3 year accelerated exposure per ASTM B-827, B-845 Silver and gold contacts

  - **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
    - Vibration 2
      - No loss of circuit during test; <10μ seconds chatter.
      - Per Mil-Std 202F, Method 213B, Test Condition K @ 30G’s. Tested with VCH connector. Test criteria - No loss of circuit during test, pre and post test contact resistance.

  - **Shock**
    - 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

  - **Salt Spray**
    - Per Mil-Std 202F, Method 101D, Test Condition A, 30°C to +85°C. Test criteria - pre and post test contact resistance.

  - **Dust**
    - 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.
**V-Series Contura Sealed Rocker Switches - Contura II & III - Ordering Scheme**

### 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.

**8 terminal 10 terminal**
- Terminals 7, 8, 9 & 10 for lamp circuit only.

### 3 RATING 3

<table>
<thead>
<tr>
<th>0.4VA @ 28VDC Resistive</th>
</tr>
</thead>
<tbody>
<tr>
<td>B</td>
</tr>
<tr>
<td>C</td>
</tr>
<tr>
<td>D</td>
</tr>
<tr>
<td>E</td>
</tr>
<tr>
<td>F</td>
</tr>
<tr>
<td>M</td>
</tr>
<tr>
<td>N</td>
</tr>
<tr>
<td>4</td>
</tr>
<tr>
<td>5</td>
</tr>
</tbody>
</table>

**Termination**
- 8 terminal 10 terminal

### 4 TERMINATION / BASE STYLE

<table>
<thead>
<tr>
<th>1</th>
<th>2</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td>5</td>
<td>6</td>
</tr>
<tr>
<td>7</td>
<td>8</td>
</tr>
</tbody>
</table>

**Jumper**
- 2 & 3, 5 & 6

### 5 ILLUMINATION

**Lamp #1 above terminals 1 & 4 end of switch; Lamp #2 above terminals 3 & 6 end of switch.**

<table>
<thead>
<tr>
<th>Sealed</th>
<th>Unsealed</th>
<th>Illumination Type</th>
<th>Lamp wired to Terminals</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>B</td>
<td>C</td>
<td>D</td>
</tr>
<tr>
<td>0</td>
<td>1</td>
<td>2</td>
<td>3</td>
</tr>
</tbody>
</table>

**Jumper**
- 2 & 3, 5 & 6

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

**Selection 6**: above terminals 1 & 4; **Selection 7**: above terminals 3 & 6

<table>
<thead>
<tr>
<th>Led</th>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>No lamp</td>
</tr>
<tr>
<td>1</td>
<td>neon</td>
</tr>
<tr>
<td>2</td>
<td>Incandescent</td>
</tr>
<tr>
<td>3V</td>
<td>5V</td>
</tr>
<tr>
<td>6V</td>
<td>12V</td>
</tr>
<tr>
<td>18V</td>
<td>24V</td>
</tr>
</tbody>
</table>

**LED**
- Red
- Amber
- Green
- Superbright

**Red Amber Green Red**
- superbright

### 8 FLUSH BRACKET COLOR 1, PANEL SEAL

<table>
<thead>
<tr>
<th>Black</th>
<th>White</th>
<th>Gray</th>
</tr>
</thead>
<tbody>
<tr>
<td>No Seal</td>
<td>C</td>
<td>Y</td>
</tr>
<tr>
<td>One Seal</td>
<td>B</td>
<td>W</td>
</tr>
</tbody>
</table>

### 10 LENS

<table>
<thead>
<tr>
<th>Clear White</th>
<th>Amber</th>
<th>Green</th>
<th>Red</th>
<th>Blue</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>6</td>
<td>8</td>
<td>G</td>
<td>M</td>
</tr>
<tr>
<td>2</td>
<td>C</td>
<td>H</td>
<td>N</td>
<td>T</td>
</tr>
<tr>
<td>3</td>
<td>8</td>
<td>D</td>
<td>J</td>
<td>P</td>
</tr>
<tr>
<td>4</td>
<td>E</td>
<td>K</td>
<td>R</td>
<td>W</td>
</tr>
</tbody>
</table>

**Square lens options only available for Contura II.**

### 11 ACTUATOR COLOR 1 AND TEXTURE 0 - No Actuator

<table>
<thead>
<tr>
<th>Black</th>
<th>Gray</th>
<th>Red</th>
<th>White</th>
</tr>
</thead>
<tbody>
<tr>
<td>Soft Surface</td>
<td>B</td>
<td>G</td>
<td>R</td>
</tr>
<tr>
<td>Hard Surface</td>
<td>C</td>
<td>H</td>
<td>S</td>
</tr>
</tbody>
</table>

### 12 ACTUATOR LENS OR BODY LEGENDS 2

<table>
<thead>
<tr>
<th>11</th>
<th>12</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>10</td>
</tr>
<tr>
<td>11</td>
<td>10</td>
</tr>
<tr>
<td>12</td>
<td>11</td>
</tr>
<tr>
<td>13</td>
<td>12</td>
</tr>
<tr>
<td>14</td>
<td>13</td>
</tr>
</tbody>
</table>

**Body legends**
- not available on Soft surface actuators; White imprinting is standard on black actuators.

**Legend Options & Codes**

### 13 LEGEND ORIENTATION

<table>
<thead>
<tr>
<th>0</th>
<th>1</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td>5</td>
<td>6</td>
</tr>
<tr>
<td>7</td>
<td>8</td>
</tr>
</tbody>
</table>

**Additional legend options & codes**
- See V-Series Switch Accessories page.

### 14 ACTUATOR LENS LEGEND

<table>
<thead>
<tr>
<th>0</th>
<th>1</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td>5</td>
<td>6</td>
</tr>
<tr>
<td>7</td>
<td>8</td>
</tr>
</tbody>
</table>

**Lamps**
- Illumination Type
- Body Legend
- Lens Legend
- Orientation

Notes:
- Consult factory to verify horsepower rating for your particular circuit choice.
- Custom colors are available. Consult factory.
- Body legends not available on Soft surface actuators.
- Black imprinting is standard on white, red and gray actuators.
- Color options are available. Consult factory.
- Additional ratings available. See V-Series Switch Accessories page.
- Contura II available with two square lenses. Consult factory for details.
# V-Series Contura Sealed Rocker Switches - Contura II & III Locking - Ordering Scheme

## 1 SERIES

| V |

## 2 CIRCUIT

**Terminal Connections as viewed**

- **from bottom of switch:** SP - single pole - uses terminals 1, 2 & 3.
- **DP - double pole uses terminals 1, 2, 3, 4 & 5.**

### SPECIAL CIRCUITS

<table>
<thead>
<tr>
<th>8 terminal 10 terminal</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
</tr>
<tr>
<td>2</td>
</tr>
<tr>
<td>3</td>
</tr>
<tr>
<td>4</td>
</tr>
<tr>
<td>5</td>
</tr>
<tr>
<td>6</td>
</tr>
</tbody>
</table>

### Lock above terminals 3 & 6 end of switch

- **No lamp**
- **Neon**
  - Incandescent: 125VAC 250VAC 5V 6V 12V 18V 24V
  - LED: Red Amber Superbright Superbright
  - 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.

## 3 RATING

<table>
<thead>
<tr>
<th>4</th>
<th>.4VA @ 28VDC Resistive</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>B 15A 24V</td>
</tr>
<tr>
<td>2</td>
<td>C 20A 18V</td>
</tr>
<tr>
<td>3</td>
<td>D 20A 12V</td>
</tr>
<tr>
<td>4</td>
<td>E 20A 14V, 10A 14VT (circuit 1, 4, A &amp; D only)</td>
</tr>
<tr>
<td>5</td>
<td>F 10A 14V, 6A 14VT (circuit G only)</td>
</tr>
<tr>
<td>6</td>
<td>G .4VA/20A 12V</td>
</tr>
<tr>
<td>7</td>
<td>H .4VA/15A 24V</td>
</tr>
</tbody>
</table>

### Lock Color

- **Black**
- **Red**
- **White**
- **Gray**

## 4 TERMINATION / BASE STYLE

<table>
<thead>
<tr>
<th>9 10 12 Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>Term 10 Term 8</td>
</tr>
<tr>
<td>Termination Jumper</td>
</tr>
<tr>
<td>1</td>
</tr>
<tr>
<td>2</td>
</tr>
<tr>
<td>3</td>
</tr>
<tr>
<td>4</td>
</tr>
<tr>
<td>5</td>
</tr>
<tr>
<td>6</td>
</tr>
<tr>
<td>7</td>
</tr>
<tr>
<td>8</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

### Lamp above terminals 3 & 6 end of switch

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

<table>
<thead>
<tr>
<th>5</th>
<th>6</th>
<th>7</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sealed Lamps</td>
<td>Illumination Type</td>
<td>Lamp wired to Terminals</td>
</tr>
<tr>
<td>3</td>
<td>0</td>
<td>3 (+) 7 (-)</td>
</tr>
<tr>
<td>4</td>
<td>2</td>
<td>INDEPENDENT</td>
</tr>
<tr>
<td>5</td>
<td>2</td>
<td>3 (+) 6 (-)</td>
</tr>
</tbody>
</table>

## 6 LOCK

- **Lock above terminals 1 & 4 end of switch**
- **W lock**

---

Notes:
- Consult factory to verify horsepower rating for your particular circuit choice.
- Custom colors are available. Consult factory.
- White imprinting is standard on black actuators; Black imprinting is standard on white, red and gray actuators. Custom colors are available, consult factory.
- Only available with 3 position circuits. Center OFF and special circuits only available with center position lock function.
- Additional ratings available. See V-Series Switch Accessories page.

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

**V**

### 2 CIRCUIT

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

<table>
<thead>
<tr>
<th>Terminals</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 - 4</td>
<td>Terminal 1 - 4 (ON)</td>
</tr>
<tr>
<td>2 - 5</td>
<td>Terminal 2 - 5</td>
</tr>
<tr>
<td>3 - 6</td>
<td>Terminal 3 - 6</td>
</tr>
<tr>
<td>10 - 9</td>
<td>Terminal 10 - 9 (OFF)</td>
</tr>
</tbody>
</table>

**Position:**
- **1:** 2 & 3 & 5 & 6 Connected Terminals 1 & 2 & 4 & 5
- **2:** A ON None OFF
- **3:** B ON None OFF
- **4:** C ON None OFF
- **5:** D ON None OFF
- **6:** E ON OFF None
- **7:** F ON OFF None
- **8:** G ON OFF None
- **9:** H ON OFF None
- **10:** I ON OFF None

**SPECIAL CIRCUITS**
- **H**: 2 & 3 & 5 & 6 Connected Terminals 1 & 2 & 4 & 5
- **G**: 2 & 3 & 5 & 6 Connected Terminals 1 & 2 & 4 & 5
- **S**: 2 & 3 & 5 & 6 Connected Terminals 1 & 2 & 4 & 5
- **M**: 2 & 3 & 5 & 6 Connected Terminals 1 & 2 & 4 & 5
- **P**: 2 & 3 & 5 & 6 Connected Terminals 1 & 2 & 4 & 5
- **E**: 2 & 3 & 5 & 6 Connected Terminals 1 & 2 & 4 & 5
- **N**: 2 & 3 & 5 & 6 Connected Terminals 1 & 2 & 4 & 5

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

### 3 RATING

<table>
<thead>
<tr>
<th>Rating</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>.4VA @ 28VDC Resistive</td>
</tr>
<tr>
<td>B</td>
<td>.4VA @ 30VDC Resistive</td>
</tr>
<tr>
<td>C</td>
<td>1A @ 125VAC Resistive</td>
</tr>
<tr>
<td>D</td>
<td>1A @ 250VAC Resistive</td>
</tr>
<tr>
<td>E</td>
<td>1A @ 28VDC Resistive</td>
</tr>
<tr>
<td>F</td>
<td>1A @ 240VAC Resistive</td>
</tr>
</tbody>
</table>

### 4 TERMINATION / BASE STYLE

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

**Note:** Codes J & K for circuits H, G & M. Do not use silicone based lubricants to reduce terminal insertion forces during connector assembly.

### 5 ILLUMINATION & SWITCH SEALING

**Lamp #1 above terminals 1 & 4 end of switch:**
- **Lamp #2 above terminals 3 & 6 end of switch.**

*Positive (+) and negative (-) symbols apply to LED lamps only.

**Lamp wired to Terminals**

<table>
<thead>
<tr>
<th>Lamp Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>S</td>
<td>0</td>
</tr>
<tr>
<td>A</td>
<td>1</td>
</tr>
<tr>
<td>B</td>
<td>2</td>
</tr>
<tr>
<td>C</td>
<td>3</td>
</tr>
<tr>
<td>D</td>
<td>4</td>
</tr>
<tr>
<td>E</td>
<td>5</td>
</tr>
<tr>
<td>F</td>
<td>6</td>
</tr>
<tr>
<td>G</td>
<td>7</td>
</tr>
<tr>
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<td>J</td>
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<td>K</td>
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<td>L</td>
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**Actuator LENS OR BODY LEGENDS**

<table>
<thead>
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**Legend Orientation**

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### V1DABTOBGPC00-00

#### 1 SERIES

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<th>7</th>
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<tbody>
<tr>
<td>V</td>
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#### 2 CIRCUIT

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

- 8 - 7 - 8 - 7 Terminals 7, 8, 9 & 10 for lamp circuit only.
- 1 - 4 - 1 - 4
- 2 - 3 - 2 - 3
- 3 - 6 - 3 - 6
- 10 - 9 - 10 - 9

**Position:**
- 1
- 2
- 3

**Special Circuits:**
- H* & J: 2 & 3, 5 & 6
- G* & K: 2 & 3, 5 & 6, 2 & 3
- F* & M*: 2 & 3, 5 & 6, 2 & 3
- R*: (2 & 3, 5 & 6)
- E* & K: 2 & 3, 5 & 6

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

#### 3 RATING

<table>
<thead>
<tr>
<th>1</th>
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<tbody>
<tr>
<td>1</td>
<td>.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>20A 14V, 10A 14V</td>
<td></td>
</tr>
<tr>
<td>F</td>
<td>10A 14V, 6A 14V</td>
<td></td>
</tr>
<tr>
<td>G</td>
<td>12A 24V</td>
<td></td>
</tr>
<tr>
<td>M</td>
<td>.4VA/20A 12V</td>
<td></td>
</tr>
<tr>
<td>N</td>
<td>.4VA/15A 24V</td>
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#### 4 TERMINATION / BASE STYLE

<table>
<thead>
<tr>
<th>8 Term</th>
<th>10 Term</th>
<th>Termination</th>
<th>Jumper</th>
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<tbody>
<tr>
<td>A</td>
<td>B</td>
<td>250 TAB (OC) no barres</td>
<td>No</td>
</tr>
<tr>
<td>I</td>
<td>J</td>
<td>250 TAB (OC) with barres</td>
<td>No</td>
</tr>
<tr>
<td>S</td>
<td>T</td>
<td>Solder Lug no barres</td>
<td>No</td>
</tr>
<tr>
<td>S</td>
<td>T</td>
<td>Solder Lug</td>
<td>No</td>
</tr>
<tr>
<td>S</td>
<td>T</td>
<td>Wire Lugs no barres</td>
<td>No</td>
</tr>
<tr>
<td>F</td>
<td>E</td>
<td>Wire Lugs</td>
<td>No</td>
</tr>
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</table>

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

#### 5 ILLUMINATION & SWITCH SEALING

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

<table>
<thead>
<tr>
<th>6</th>
<th>7</th>
<th>8</th>
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<tr>
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<td>C</td>
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<td>E</td>
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<tr>
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<td>H</td>
<td>I</td>
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<tr>
<td>J</td>
<td>K</td>
<td>L</td>
</tr>
<tr>
<td>M</td>
<td>N</td>
<td>P</td>
</tr>
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</table>

Lamp wired to Terminals:
- 1 & 4 (O)
- 2 & 3 (O)
- 5 & 6 (O)

### 8 FLUSH BRACKET COLOR, PANEL SEAL

#### 11 ACTUATOR COLOR

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#### 11 ACTUATOR LENS OR BODY LEGENDS

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#### 14 ACTUATOR LENS LEGEND

Consult factory for “daylight bright” LED options. Typical current draw for LED is 20mA.

### Additional Information

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

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

4 TERMINATION / BASE STYLE
6 term 10 Term Termination Jumper
A B - .250 TAB (QC) no barriers No
B C 250 TAB (QC) with barriers No
J K 250 TAB (QC) no barriers Yes T2 to 5
S 5 Solder Lug no barriers No
C D Solder Lug No
6 G Wire Leads no barriers No
E F Wire Leads No
Note: Codes J & K for circuits H, G & M. Do not use silicone based lubricants to reduce terminal insertion forces during connector assembly, as it is detrimental to function and performance.

5 ILLUMINATION & SWITCH SEALING
Lamp #1 above terminals 1 & 4 end of switch. Lamp #2 above terminals 3 & 6 end of switch. Positive (+) and negative (-) symbols apply to LED lamps only. Lamp above terminals 1 & 4 end of switch.
Sealed Unsealed Lamps Illumination Type Lamp wired to Terminals
S 0 NONE 3 3 (+) 7 ()
C 1 UP 2 H
H 2 INDEPENDENT 3 3 (+) 1 ()
M 3 R 1 UP 3 (+) 6 (-)

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

7 LAMP
Lamp above terminals 3 & 6 end of switch
No lamp 0
Neon 1 105VAC 2 250VAC
Incandescent 4 12V 5 6V 6 12V 7 18V 8 24V
LED* 9 Red 10 Red superbright Amber superbright
11 Green Red
2VDC 12 A L F R
6VDC 13 B M G S
12VDC 14 C N H T
24VDC 15 D P J V
* Consult factory for “daylight bright” LED options. Typical current draw for LED is 20mA.

7 TERMINATION / BASE STYLE
6 term 10 Term Termination Jumper
A B - .250 TAB (QC) no barriers No
B C 250 TAB (QC) with barriers No
J K 250 TAB (QC) no barriers Yes T2 to 5
S 5 Solder Lug no barriers No
C D Solder Lug No
6 G Wire Leads no barriers No
E F Wire Leads No
Note: Codes J & K for circuits H, G & M. Do not use silicone based lubricants to reduce terminal insertion forces during connector assembly, as it is detrimental to function and performance.

8 FLUSH BRACKET COLOR 1, PANEL SEAL
No Seal Black White Gray
One Seal C Y H

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
Actor orientation over terminals:
U V W Y
Actuator orientation over terminals:
U V W Y

10 LENS
Z - No Lens
A B C D E F bar lens
G H J K L M oval lens
Lamp lens for LEDs must be clear, white, or match color of LED. Green or blue lenses are not recommended with Neon lamps.

11 ACTUATOR LOCK FUNCTION AND COLOR
Lock Color
Up A H R 1
Down B J S 2
Gray G N 6

12 ACTUATOR LENS OR BODY LEGEND
00 - No Legend
A B C D E F
21 22 23 24
OFF ON OFF OFF
25 26 27 28 29
ON ON ON ON
For additional legend options & codes, visit us at www.carlingtech.com.

13 LEGEND ORIENTATION
0 Orientation 1
1 Orientation 2
2 Orientation 3
4 Orientation 4
3
### 2 CIRCUIT

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

#### SPECIAL CIRCUITS

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

#### 3 RATING

<table>
<thead>
<tr>
<th>Rating</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1A @ 28VDC Resistive</td>
</tr>
<tr>
<td>2</td>
<td>15A @ 24V</td>
</tr>
<tr>
<td>3</td>
<td>20A @ 12V</td>
</tr>
<tr>
<td>4</td>
<td>20A @ 14V, 10A @ 14V (circuit G only)</td>
</tr>
<tr>
<td>5</td>
<td>10A @ 18V, 6A @ 18V</td>
</tr>
<tr>
<td>6</td>
<td>15A @ 24V</td>
</tr>
</tbody>
</table>

#### 4 TERMINATION / BASE STYLE

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

#### 5 ILLUMINATION & SWITCH SEALING

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

### 6.7 LAMP

Lamp above terminals 3 & 6 end of switch.

- No lamp
- Neon

- Incandescent: 4.3V, 5.6V, 6.12V, 7.18V, 8.24V
- LED*: Red, Amber, Green, Yellow, Blue

### 8 FLUSH BRACKET COLOR 1, PANEL SEAL

- Black
- White
- Red
- Blue
- Amber
- Green

### 9 ACTUATOR

- No Actuator
- High Insert
- Low Insert

### 10.11 LENS

- No Lens
- Clear
- White
- Amber
- Green
- Red
- Blue
- Bar Lens Translucent
- Oval Lens Translucent

### 12 ACTUATOR COLOR

- Black
- Gray
- Red
- White

### 13 INSERT COLOR

- Bright Nickel Plated
- Black
- Satin Chrome Plated
- Bright Chrome Plated
- T Satin Nickel Plated
- W White

### 14 ACTUATOR LENS OR BODY LEGENDS

- No Legend
- Legend

### 15 LEGEND ORIENTATION

#### 16 ACTUATOR LENS LEGEND

- No Legend
- Legend

---

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.

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

Terminals Connections as viewed from bottom of switch: SP - single pole - uses terminals 1, 2 & 3.

**8 terminal 10 terminal**

- DP - double pole uses terminals 1, 2, 3, 4, 5 & 6.
- Terminals 7, 8, 9 & 10 for lamp circuit only.
- Selection 4: External jumper between terminals 2 & 4 for circuit E are specified in selection 6.

<table>
<thead>
<tr>
<th>Position</th>
<th>Terminal Connections</th>
<th>Selection 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>SP 2 &amp; 3, 5 &amp; 6</td>
<td>Connected</td>
</tr>
<tr>
<td>2</td>
<td>DP 2 &amp; 3, 5 &amp; 6</td>
<td>Terminals</td>
</tr>
<tr>
<td>3</td>
<td>A 2 &amp; 3, 5 &amp; 6</td>
<td>SP</td>
</tr>
<tr>
<td>4</td>
<td>B 2 &amp; 3, 5 &amp; 6</td>
<td>ON</td>
</tr>
<tr>
<td>5</td>
<td>C 2 &amp; 3, 5 &amp; 6</td>
<td>ON</td>
</tr>
<tr>
<td>6</td>
<td>D 2 &amp; 3, 5 &amp; 6</td>
<td>OFF</td>
</tr>
<tr>
<td>7</td>
<td>E 2 &amp; 3, 5 &amp; 6</td>
<td>OFF</td>
</tr>
</tbody>
</table>

**SPECIAL CIRCUITS**

- Selection 15: Lamp #1 above terminals 1 & 4 end of switch.
- Selection 16: Lamp #2 above terminals 3 & 6.
- Selection 17: Lamp #3 above terminals 5 & 8.
- Selection 18: Lamp #4 above terminals 7 & 10.
- Selection 19: Lamp #5 above terminals 1 & 8.

**4 TERMINATION / BASE STYLE**

<table>
<thead>
<tr>
<th>Term 1</th>
<th>Term 2</th>
<th>Term 3</th>
<th>Term 4</th>
<th>Term 5</th>
<th>Term 6</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
</tr>
</tbody>
</table>

**5 ILLUMINATION & SWITCH SEALING**

Lamp #1: above terminals 1 & 4 of switch.

- Selection 7: above terminals 3 & 6.
- Selection 8: above terminals 5 & 8.
- Selection 9: above terminals 7 & 10.

**3 RATING**

<table>
<thead>
<tr>
<th>1</th>
<th>24VDC Resitive</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>15A</td>
</tr>
<tr>
<td>3</td>
<td>20A</td>
</tr>
<tr>
<td>4</td>
<td>10A</td>
</tr>
<tr>
<td>5</td>
<td>6VDC</td>
</tr>
</tbody>
</table>

**6 LAMP (same coding for both selections)**

- Selection 7: above terminals 3 & 6.

**10 LENS**

Lamp 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 LEGENDS**

- Selection 14: Lamp #6 above terminals 1 & 4.
- Selection 15: Lamp #7 above terminals 3 & 6.
- Selection 16: Lamp #8 above terminals 5 & 8.
- Selection 17: Lamp #9 above terminals 7 & 10.

**12 ACTUATOR LENS COLOR / THUMB PRINT COLOR**

- Selection 10: Lamp #1 above terminals 1 & 4.
- Selection 11: Lamp #2 above terminals 3 & 6.
- Selection 12: Lamp #3 above terminals 5 & 8.
- Selection 13: Lamp #4 above terminals 7 & 10.

**13 LEGEND ORIENTATION**

- Selection 1: Orientation 1.
- Selection 2: Orientation 2.
- Selection 3: Orientation 3.
- Selection 4: Orientation 4.

**14 ACTUATOR LENS LEGEND**

- Selection 0: Lamp #1 above terminals 1 & 4.
- Selection 1: Lamp #2 above terminals 3 & 6.
- Selection 2: Lamp #3 above terminals 5 & 8.
- Selection 3: Lamp #4 above terminals 7 & 10.

**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.
- For additional legend options & codes, visit us at www.carlingtech.com.
### V-Series Contura Sealed Rocker Switches - Contura X, XI & XII - Ordering Scheme

**1 SERIES**

<table>
<thead>
<tr>
<th>V</th>
</tr>
</thead>
</table>

**2 CIRCUIT**

**Terminal Connections as viewed ( ) - momentary**

**8 terminal 10 terminal**

<table>
<thead>
<tr>
<th>B</th>
<th>Z</th>
<th>P</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
<th>10</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
<td>7</td>
<td>8</td>
<td>9</td>
<td>10</td>
</tr>
</tbody>
</table>

**Position:**

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

**SPECIAL CIRCUITS**

<table>
<thead>
<tr>
<th>R</th>
<th>G</th>
<th>F</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
<th>10</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
<td>7</td>
<td>8</td>
<td>9</td>
<td>10</td>
</tr>
</tbody>
</table>

*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 circuit.

**3 RATING**

<table>
<thead>
<tr>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
<th>10</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
<td>7</td>
<td>8</td>
<td>9</td>
<td>10</td>
</tr>
</tbody>
</table>

**4 TERMINATION / BASE STYLE**

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

<table>
<thead>
<tr>
<th>0</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
<td>7</td>
<td>8</td>
<td>9</td>
</tr>
</tbody>
</table>

**5 ILLUMINATION & SWITCH SEALING**

Lamp #1 above terminals 1 & 4 & 6 end of switch; Lamp #2 above terminals 3 & 6 & 8 end of switch. Positive (+) and negative (-) symbols apply to LED lamps only.

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>I</th>
<th>J</th>
</tr>
</thead>
</table>

| A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T |


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

**1 SERIES**

V

**2 CIRCUIT**

Terminal Connections as viewed - momentary from bottom of switch:

- SP - single pole - uses terminals 1, 2 & 3.
- DP - double pole uses terminals 1, 2, 3, 4, 5 & 6.

Position:

- SP DP 2 & 3, 5 & 6 Connected Terminals 1 & 2 & 4 & 5
- 1 & 2 A ON OFF
- 3 D ON OFF ON
- 6 J OFF ON
- 9 N ON OFF ON

**3 RATING**

- .4VA @ 28VDC Resistive
- 1 B 15A 24V
- 2 C 20A 18V
- 3 D 20A 12V
- 4 E 20A 14V, 10A 14V T (circuit 1, 4, A & D only)
- 5 F 20A 20A 12V
- N .4VA/15A 12V

**4 TERMINATION / BASE STYLE**

<table>
<thead>
<tr>
<th>8 term</th>
<th>10 Term</th>
<th>Jumper</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2</td>
<td>No</td>
</tr>
<tr>
<td>2</td>
<td>3</td>
<td>No</td>
</tr>
<tr>
<td>3</td>
<td>4</td>
<td>No</td>
</tr>
<tr>
<td>4</td>
<td>5</td>
<td>No</td>
</tr>
<tr>
<td>5</td>
<td>6</td>
<td>No</td>
</tr>
<tr>
<td>6</td>
<td>7</td>
<td>No</td>
</tr>
</tbody>
</table>

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

**5 ILLUMINATION & SWITCH SEALING**

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

<table>
<thead>
<tr>
<th>Sealed</th>
<th>Unsealed</th>
<th>Lamps</th>
<th>Illumination Type</th>
<th>Lamp wired to Terminals</th>
</tr>
</thead>
<tbody>
<tr>
<td>S</td>
<td>C</td>
<td>3</td>
<td>2</td>
<td>UP</td>
</tr>
<tr>
<td>H</td>
<td>Z</td>
<td>3</td>
<td>2</td>
<td>INDEPENDENT</td>
</tr>
<tr>
<td>M</td>
<td>R</td>
<td>1</td>
<td>2</td>
<td>UP</td>
</tr>
</tbody>
</table>

**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
- Neon
  - 0 1 DC VAC
- Incandescent
  - 4 3V
  - 5 6V
  - 6 12V
  - 7 18V
  - 8 24V

LED

<table>
<thead>
<tr>
<th>Red</th>
<th>Amber</th>
<th>Green</th>
<th>Red</th>
</tr>
</thead>
<tbody>
<tr>
<td>2VDC</td>
<td>A</td>
<td>L</td>
<td>F</td>
</tr>
<tr>
<td>6VDC</td>
<td>C</td>
<td>N</td>
<td>H</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
- Gray
- Red
- White

**9 HARD SURFACE ACTUATOR**

- Contura X
- Black
- Gray
- Red
- White

Actuator orientation over terminals:

- 1 2 3 4

**10 LENS - ABOVE LAMP #2 TERMINALS 5**

- Z - No Lens
- Clear
- White
- Amber
- Green
- Red
- Blue

**11 ACTUATOR LOCK FUNCTION AND COLOR**

- Lock Color
- Up
- Down
- Matched 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 LEGEND**

- 00 - No Legend
- 21 22 23 24
- OFF ON O I
- 9 25 26 27 28 29
- N 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

For additional 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.
- Located over T1-4 end of switch.
- Additional ratings available. See V-Series Switch Accessories page.
- Located over T3-6 end of switch.
**V-Series Contura Sealed Rocker Switches - Contura XIV - Ordering Scheme**

### 1 SERIES

**V**

### 2 CIRCUIT

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

#### 8 terminal 10 terminal
- **8** - 7 - 8 - 9 - 10
- **1** - **2** - **3** - **4** - **5**
- **6** - **7** - **8** - **9** - **10**

**Position:**
- **1**
- **2** & **3**
- **5** & **6**

- **ON**
- **OFF**

**Jumper between terminals 2 & 5 for circuits H, G, M, R & S are specified in selection 14.**

**Special Circuits**

- **H**
- **L**
- **S**

**Rating**

- 1 A
- 2 B
- 3 C
- 4 D
- 5 E
- 6 F
- 7 G
- 8 H
- 9 I
- 10 J

**14 ACTUATOR / LENS LEGEND**

- **0** - No Legend
- **1** - Orientation 1
- **2** - Orientation 2
- **3** - Orientation 3
- **4** - Orientation 4

**10 LENS COLOR / STYLE**

- **0** - No Lens
- **1** - Clear
- **2** - White
- **3** - Red
- **4** - Amber
- **5** - Green
- **6** - Silver
- **7** - Blue

**6 & 7 LAMP**

- **No lamp**
- **1** - 125VAC
- **2** - 250VAC
- **3** - 12VDC
- **4** - 24VDC

**LED**

- **2VDC**
- **6VDC**
- **12VDC**
- **24VDC**

**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.

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

**SPECIAL CIRCUITS**

- **H**
- **L**
- **S**

**8 TERMINATION / BASE STYLE**

- **8 Term**
- **10 Term**
- **Termination**
- **Jumper**

**4 TERMINATION / BASE STYLE**

- **Terminals**
- **Jumper**
- **250 TAB (QC) no barriers**
- **250 TAB (QC) with barriers**
- **Solder Lug no barriers**
- **Wire Leads no barriers**

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

- **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**

- **S**
- **A**
- **B**
- **C**
- **D**
- **E**
- **F**
- **G**
- **H**

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

- **K**
- **L**

**Lamp #2: above terminals 3 & 6 end of switch.**

- **1**
- **2**
- **3**
- **4**
- **5**
- **6**
- **7**
- **8**
- **9**

**Legend Orientation**

- **0** - No Legend
- **1** - Orientation 1
- **2** - Orientation 2
- **3** - Orientation 3
- **4** - Orientation 4

**Additional ratings available. See V-Series Switch Accessories page.**
### V-Series Contura Sealed Rocker Switches - Contura XIV Locking - Ordering Scheme

<table>
<thead>
<tr>
<th>1 Series</th>
<th>2 Circuit</th>
<th>3 Rating</th>
<th>4 Termination</th>
<th>5 Illumination</th>
<th>6 Lock</th>
<th>7 Lamp</th>
<th>8 Bracket</th>
<th>9 Actuator</th>
<th>10 Lens</th>
<th>11 Actuator Color</th>
<th>12 Legend</th>
<th>13 Legend Orientation</th>
</tr>
</thead>
<tbody>
<tr>
<td>V</td>
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</table>

#### 1 Series

**V**

#### 2 Circuit

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

#### Special Circuits

- H: 2 & 3 2 & 3, 5 & 6 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 Rating

- A: .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

- 6 Terminals: 1, 2, 3, 4, 5, 6

**Jumper**
- A: B: .250 TAB (QC) no barriers
- J: K: .250 TAB (QC) no barriers Yes T2 to 5

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

#### 5 Illumination

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

**Lamps**
- S: NONE
- C: 2: UP
- H: 2: INDEPENDENT
- M: 1: UP

**Lamp wired to Terminals**
- Lamp #1: 3 (+) 7 (-)
- Lamp #2: 8 (+) 7 (-)

**Double Pole Switches Only**
- Lamp #1: 3 (+) 6 (-)

#### 6 Lock Option

- W: Low Profile Lock

**Notes:**
- Consult factory to verify horsepower rating for your particular circuit choice.
- Custom colors are available. Consult factory.
- White imprinting is standard on black actuators; Black imprinting is standard on white, red and gray actuators.
- Additional ratings available. See V-Series Switch Accessories page.

---

**Email:** sales@carlingtech.com  **Application Support:** team2@carlingtech.com  **Phone:** (860) 793–9281  **Fax:** (860) 793–9231  **www.carlingtech.com**
Dimensional Specifications: in. [mm]

**CONTURA II**
- Shown with Square Lens

8 TERMINAL BASE W/BARRIERS
- Dimensions in inches and millimeters:
  - Height: 1.579 [40.07] in.
  - Other dimensions are provided in the diagram.

**CONTURA III**
- Shown with Square Lens

8 TERMINAL BASE W/O BARRIERS
- Dimensions in inches and millimeters:
  - Height: 1.579 [40.07] in.
  - Width: 1.479 [37.57] in.
  - Other dimensions are provided in the diagram.

**CONTURA IV**
- Shown with Bar Lens

10 TERMINAL BASE W/BARRIERS
- Dimensions in inches and millimeters:
  - Height: 1.126 [28.60] in.
  - Width: 2.000 [50.80] in.
  - Other dimensions are provided in the diagram.

8 TERMINAL BASE W/BARRIERS
- Dimensions in inches and millimeters:
  - Height: .940 [24.00] in.
  - Other dimensions are provided in the diagram.

10 TERMINAL BASE W/BARRIERS
- Dimensions in inches and millimeters:
  - Other dimensions are provided in the diagram.

**Switch Shown with VCH Connector 8 Terminal**
- Dimensions in inches and millimeters:
  - Height: 2.029 [51.53] in.

**Bottom View Terminal Arrangement 8 Terminal Base**
- Dimensions in inches and millimeters:
  - Position 1 to 8 indicated in the diagram.

**Bottom View Terminal Arrangement 10 Terminal Base**
- Dimensions in inches and millimeters:
  - Position 1 to 10 indicated in the diagram.

**Switch Shown with VC1 Connector 10 Terminal**
- Dimensions in inches and millimeters:
  - Height: 2.029 [51.53] in.
Dimensional Specifications: in. [mm]

**CONTURA V**
- Shown with bar lens

**CONTURA VI**
- Shown with oval lens

**CONTURA VII**
- Shown with large lens and bar lens

---

**8 TERMINAL BASE W/BARRIERS**
- Contura V
- Contura VI
- Contura VII

**8 TERMINAL BASE W/O BARRIERS**
- Contura V
- Contura VI
- Contura VII

**10 TERMINAL BASE W/BARRIER AND LAMP TERMINAL**
- Contura V
- Contura VI
- Contura VII

**10 TERMINAL BASE W/O BARRIERS**
- Contura V
- Contura VI
- Contura VII

---

**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 X
SHOWN WITH RAISED BRACKET

CONTURA XI
SHOWN WITH RAISED BRACKET AND TWO SQUARE LENSES

CONTURA XII
SHOWN WITH PADDLE ACTUATOR

CONTURA XIV
SHOWN WITH LARGE LENS

8 TERMINAL BASE
W/BARRIERS

10 TERMINAL BASE
W/O BARRIERS

8 TERMINAL BASE
W/BARRIERS

8 TERMINAL BASE
W/BARRIERS

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8 TERMINAL BASE
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Circuit Diagrams:

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<th>CIRCUIT DIAGRAM</th>
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<td>![Diagram F]</td>
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<td>7</td>
<td>![Diagram G]</td>
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<td>![Diagram H]</td>
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<tr>
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<tr>
<td>M</td>
<td>![Diagram L]</td>
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<td>R</td>
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<td>S</td>
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**SYMBOL LEGEND**

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<tr>
<th>SYM</th>
<th>DEFINITION</th>
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<td>DESIGNATES TERMINALS AND CONTACTS</td>
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<td>DESIGNATES MAINTAINED CIRCUITS</td>
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<td>DESIGNATES OTHER POSITION</td>
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<td>DESIGNATES EXTERNAL JUMPER PROVIDED BY CUSTOMER</td>
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Lamp Circuit Diagrams:

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<td>D / 4</td>
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<td>E / 5</td>
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<tr>
<td>K / W</td>
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<td>N / T</td>
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<tr>
<td>P / V</td>
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<td>U / Y</td>
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J-Series Hazard Warning Circuit Diagrams:

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<td>J1</td>
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<td><img src="image" alt="Circuit Diagram J2" /></td>
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<td>JJ</td>
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</tr>
<tr>
<td>JK</td>
<td><img src="image" alt="Circuit Diagram JK" /></td>
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NOTE: J circuits are available for all non-locking V-Series styles. Consult factory for part number details.

SYMBOL LEGEND

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<tr>
<td>●</td>
<td>DESIGNATES TERMINALS AND CONTACTS</td>
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<tr>
<td>○</td>
<td>DESIGNATES LAMP LOCATION</td>
</tr>
</tbody>
</table>
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:

![Panel Seal: VPS](Image)

**VVR 6 1 00 1**

<table>
<thead>
<tr>
<th>1</th>
<th>Actuator Separately</th>
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<tbody>
<tr>
<td>2</td>
<td>Actuator Style/Color</td>
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<tr>
<td>3</td>
<td>Lens Opening</td>
</tr>
<tr>
<td>4</td>
<td>Actuator Legend</td>
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<tr>
<td>5</td>
<td>Legend Orientation</td>
</tr>
</tbody>
</table>

1. **CONTURA X & XI ACTUATOR SEPARATELY**
   - VVR

2. **ACTUATOR STYLE & COLOR**
   - Black
   - Gray
   - White
   - Red
   - Contura X
     - 1
     - 2
     - 3
     - 4
   - Contura XI
     - 5
     - 6
     - 7
     - 8

3. **LENS OPENING FOR**
   - 1 One bar lens
   - 2 One bar lenses
   - 3 One square lens
   - 4 two square lenses

4. **ACTUATOR LENS OR BODY LEGEND**
   - 00 - No Legend this location
   - 11 ON 12 OFF 13 I 14 O 15 E
   - 16 F 17 O 18 I 19 L
   - 20 N 21 O 22 N 23 F 24 I
   - 25 F 26 N 27 O 28 I

5. **LEGEND ORIENTATION**
   - 0 No legend
   - 1 Orientation 1
   - 2 Orientation 2
   - 3 Orientation 3
   - 4 Orientation 4

### Contura XII actuators without lenses separately:

**VVP J 1 Z 21 1 00**

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<td>Legend Orientation</td>
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<td>7</td>
<td>Legend Orientation</td>
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1. **CONTURA XII ACTUATOR SEPARATELY**
   - VVP

2. **ACTUATOR STYLE & COLOR**
   - Black
   - K
   - Gray
   - White
   - M
   - Red

3. **LENS OPENING FOR**
   - 2 No lens
   - 1 Bar lens
   - 2 Square lens

4. **LENS OR BODY LEGEND**
   - 00 - No Legend
   - 21 ON 22 OFF 23 O 24 I
   - 25 F 26 N 27 O 28 I

5. **LEGEND ORIENTATION**
   - 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:

**VVT 1**

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<tr>
<td>2</td>
<td>Color</td>
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1. **TOP OF LENS SEPARATELY**
   - VVT

2. **COLOR**
   - 1 Clear
   - 2 Smoke
   - 3 White

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

![Contura X, XI & XII actuator lens assembly](Image)

1. **Actuator stem**
2. **Top lens**
3. **Bottom lens**
4. two piece lens assembly

**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 lenses.
4. Not recommended with neon lamps.
5. Must also order top piece of 2 piece square lens separately.

For additional legend options & codes, visit us at www.carlingtech.com.
Easily integrate Contura products into your system, with Contura Accessories

Contura Connectors

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<th>COMPANY SERIES</th>
<th>PART NO</th>
<th>PLAIN BRASS</th>
<th>TIN PLATED BRASS</th>
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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
4. 10A 250VAC 1/2 HP, 15A 125 VAC 1/2 HP. No Agency Listings
5. 10A 250VAC 1/2 HP, 15A 125 VAC 1/2 HP. UL Recognized, CSA Certified
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)
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. Rating L available with circuits 1, 4, A & D only.
Authorized Sales Representatives and Distributors

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

About Carling

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

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