### **Part Detail**

Please see the details of the part you have configured. Note that Carling reserves the right to change product details and specification without prior notice.

#### Catalog Number

V2D1AC0B-00000-000

### **Specifications**

Part Number: V2D1AC0B-00000-000 V SERIES CONTURA II & III SWITCH - BASE ONLY SPST (ON)-NONE-OFF RATING: 20A 12V 8 TERM BASE: .250" TABS; NO BARRIERS ON BASE; NO JUMPERS SEALED - LAMP 1 INDEPENDENT: T8+ T7-LAMP 1 - RED; 12VDC NO LAMP IN LOCATION 2 BLACK BRACKET; NO GASKET Additional Comments



# V-Series Contura® II & III

Sealed Rocker Switches

### PRODUCT WEBPAGE

request sample, configure part, watch video





### Contura® IP66/68 Snap-In Mounted Switches

The V-Series switches are well known for their cutting edge design, high quality, maximum performance and unmatched reliability. These snap-in rocker switches offer countless options for ratings, circuits, colors, illuminations and symbols. These single or double pole switches feature removable actuators in a choice of actuator styles and colors, which may be purchased and stocked separately. An optional plug-in terminal connector enables pre-wiring of wire harness.



**125-250** 



## **Typical Applications**

- On/Off-Highway
- Marine
- Armored Vehicles
- Industrial Automation
- Commercial FoodMedical Equipment
- Any Application Requiring Sealing Protection



## **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

## **Actuator Options & Accessories**



### Contura II & III

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



#### Contura X

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



#### **Contura IV**

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



### Contura XI

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



#### **Contura V**

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

### Contura 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 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.



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



#### **Contura VII**

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



## Illuminated Indicators & Accessories

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

## **Tech Specs**

### **Electrical**

4VA @ 24VDC (MAX) resistive 15 amps, 125VAC 10 amps, 250VAC 1/2 HP 125-250VAC 20 amps, 4-14VDC 15 amps, 15-28VDC 10A, 14VT 6A, 125VAC L
1500 Volts RMS
50 Megohms
10 milliohms max. @ 4VDC
Up to 100,000 cycles, circuit and load dependent
Silver alloy, silver tin-oxide, fine silver
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	Internal Optional external gasket panel seal
Base	Polyester blend rated to 125°C with a UL flammability rating of 94V0.
Contura II, III, IV, V, VI, VII Actuator	Hard Surface: Basic actuator structure molded of thermoplastic polycarbonate with a hard Nylon 66 thermoplastic surface overlay. Soft Surface: Basic actuator structure molded of thermoplastic polycarbonate with an elastomer overlay.
Contura X, XI, XII Actuator, VP	Nylon 66 Reinforced rated to 105°C
Lens	Polycarbonate rated at 100°C
Contura XIV	Polycarbonate lens/sub-rocker with ABS shell

## Environmental

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
-40°C to +85°C
Per Mil-Std 202F, Method 204D Test Condition A 0.06 DA or 10G's 10-500 Hz. Tested with VCH connector. Test criteria - No loss of circuit during test, pre and post test contact esistance.
Resonance search24-50 Hz 0.40 DA50-2000 Hz ±10 G's peak Horizontal Axis 3-5 G's max. Random 24 Hz 0.06 PSD-Gsq/Hz 60 Hz 0.50 100 Hz 0.50 200 Hz 0.025 2000 Hz 0.025 No loss of circuit during test; <10µ seconds chatter.
Per Mil-Std 202F, Method 213B, Test Condition K @ 30G's. Tested with VCH connector. Test criteria - No loss of circuit during test, pre and post test contact resistance.
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
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.

### **Mounting Specifications**

## Actuator Travel (Angular Displacement)

2 position	18°	
3 positions	9° from center	

	-		
Panel Thic	kness F	Range	
Gaskets		otable Panel Thickness	<b>≜</b>
0	.030 to	o .250 (.76 to 6.35mm)	
1	.030 to	o .109 & .147 to .157	1.450 [36.83]
		2.77mm & 3.73 to 3.98mm)	[00.00]
Recomme	nded: N	lo gasket with panel thickness	Ļ
		.125,.187 or .250	<u> </u>

.830 [21.08]

TEST CUT HOLE IN ACTUAL MATERIAL

SWITCH MOUNTING HOLE

## 



#### 1. SERIES

#### **V-Series** v

#### 2. CIRCUIT

	witch: SP - sing nal DP - dou	d ( ) - momentary gle pole: terminals 1, 2 & Jble pole: terminals 1, 2, 3 Ils 7, 8, 9 & 10 for lamp ci	8, 4, 5 & 6.
	1	2	2
Position	<b>.</b>	2	3
SP DP	2&3,5&6	Connected Terminals	1&2,4&5
1 A	ÓN	NONE	ÓFF
	(ON)	NONE	OFF
2 B 3 C 4 D 5 F 6 J 7 K			
3 C	ON	NONE	(OFF)
4 D	ON	NONE	ON
5 F	ON	NONE	(ON)
Ğ J	ÖN	OFF	ON
0 5			
	,ΟN	OFF	(ON)
8 L	(ON)	OFF	(ON)
SPECIAL CIRCUITS	· · /		. ,
H*	2&3	2 & 3, 5 & 4	5&4
G*	2&3,5&6		OFF
		2&3	
S*	_2 & 3, 5 & 6	2&3	1&2
M*	(2&3,5&6)	2&3	OFF
R*	(2&3,5&6)		2&1
E*	5&6	5&3	5&1
-			
lumnar hatwaan tar	minals 2 & 5 for	circuite HGMP & S are ener	ifiad in salac-

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

#### 3. RATING 3

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

#### 4. TERMINATION / BASE STYLE

I A J 3 C 5 E Note: Co lubrican	1         2           A         B           J         K           3         4           C         D           5         6           E         F           Note: Codes J & K foolubricants to reduce	12.250 TAB (QC) no barriersAB.250 TAB (QC) with barriersJK.250 TAB (QC) no barriers34Solder Lug no barriersCDSolder Lug56Wire Leads no barriers

**5. ILLUMINATION** 

Lamp #1:abo terminals 3 &	ve terminals 6 end of swit	l & 4 end of switch. ch. Positive (+) and	; Lamp #2 above d negative (-) symbols Lamp wired to Terminals
Sealed Unse	ealed Lamps	Illumination Type	Lamp wired to Terminals
A B C D	0 NONE 1 1 2 1 3 2 4 1 2	– INDEPENDENT DOWN UP DOWN DOWN	- 8 (+) 7 (-) 3 (+) 7 (-) 3 (+) 7 (-) 3 (+) 7 (-) 1 (+) 7 (-)
E	5 1 2 6 1	UP UP	1(+)7(-)
F			3 (+) 7 (-) 8 (+) 7 (-) 3 (+) 6 (-) 8 (+) 7 (-) 3 (+) 7 (-) 8 (+) 7 (-)
G	7 1 2 Z 2 Y 1	INDEPENDENT UP	8 (+) 7 (-) 3 (+) 7 (-)
U	2	INDEPENDENT INDEPENDENT INDEPENDENT	8 (+) 7 (-) 8 (+) 7 (-) 10 (+) 9 (-)
SINGLE POLE	SWITCHES ON		
J	8 1	DOWN INDEPENDENT	3 (+) 8 (-) 6 (+) 7 (-)
	N 1 2	INDEPENDENT INDEPENDENT	8 (+) 7 (-) 6 (+) 7 (-)
	SWITCHES OF		
	9 1 R 1	DOWN UP	3 (+) 6 (-) 3 (+) 6 (-) 3 (+) 6 (-)
N	Ť i	DOWN	3 (+) 6 (-)
	2	DOWN	1(+)'4(-)'
P	<b>V</b> 1 2	UP UP	1 (+) 4 (-) 3 (+) 6 (-)

#### 6,7. LAMP (SAME CODING FOR BOTH SELECTIONS)

	oove termir	nals 1 & 4; Se	lection 7: abov	ve terminals 3 & 6
No lamp Neon Incandescent		<b>2</b> 250VAC <b>5</b> 6V	<b>6</b> 12V superbright	<b>7</b> 18V <b>8</b> 24V superbright
2VDC	Red	Amber	Green	Red
6VDC	B	M	r G	S
12VDC 24VDC	ç	N	H,	T
	D onv for "day	F vlight bright	J "IED optiona	

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

#### 8. FLUSH BRACKET COLOR, PANEL SEAL

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

#### 9. ACTUATOR

0 A, B C, D	No Actuator Contura II Contura III		$\left( \right)$
Actuat	tor thick end over	terminals:	1,4 3,6

#### 10. LENS 1

	<b>0</b> - No A Clear			Lens Green	Pod	Blue	$\sim$	
		c		Cleen				
	1	0	в	G	м	1	Ē	
	2	7	С	н	N	U		
	3	8	D	J	Р	V		
	Square l	ens op	tions oi	nly avai	lable	for Contura II.		
	4 ່	9 '	E	ќ	R	W		
L	5	Α	F	L	S	Y		
	5 A F L S Y Lens color for LEDs must be clear, white, or match color of LED. Green or blue lenses are not recommended with Neon lamps.							

#### 11. ACTUATOR COLOR AND TEXTURE

<b>0</b> - No Actuator	Black	Grav	Red	White	
Soft Surface	B	G	R	W	
Hard Surface	C	H	S	Y	

#### 12. ACTUATOR LENS OR BODY LEGENDS 2

11	ON OFF	12 OFF ON	13   O	<b>14</b> O I	Π			
15	0 0 F N F	16 0 0 N F F	<b>17</b> OI	<b>18</b>   O				
For additional legend options & codes, visit us at www.carlingtech.com								

#### **13. LEGENDS ORIENTATION**

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

#### **14. ACTUATOR LENS LEGENDS**

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

#### Notes:

Consult factory to verify horsepower rating for your particular circuit choice. Custom colors are available. Consult factory. Body legends not available on Soft surface actuators; White imprinting is

- standard on black actuators; Black imprinting is standard on white, red and gray actuators. Custom colors are available, consult factory. Additional ratings available, see V-Series Switch Accessories page. Contura II available with two square lenses. Consult factory for details.

## 

4

5

#### S Ζ Ε Sample В А W Α Part Number

6

Selection

1. SERIES

V-Series v

1

#### 2. CIRCUIT

Terminal Connections as viewed () - momentary from bottom of switch: SP - single pole: terminals 1, 2 & 3. 8 terminal 10 terminal DP - double pole: terminals 1, 2, 3, 4, 5 & 6. 8 - 7 $8 - 7$ DP - double pole: terminals 1, 2, 3, 4, 5 & 6. 14 $142 - 5$ $2 - 53 - 6$ $3 - 610 - 9$						
Position:	1	2	3			
SP DP	2&35&6 C	onnected Terminals	•			
1 A	ON ON	NONE	OFF			
4 D	ÖN	NONE	ON			
6 J	ÖN	OFF	ON			
7 K	ÖN	OFF	(ON)			
8 L	(ON)	OFF	(ON)			
9 N	ÒFF	NONE	`ON´			
SPECIAL CIRCUITS						
H*	2&3	2 & 3, 5 & 4	5&4			
G*	2 & 3, 5 & 6	2&3	OFF			
S*	2&3,5&6	2&3	1&2			
M*	(2&3,5&6)	2&3	OFF			
R*	(2 & 3, 5 & 6)	2&3	2&1			
E*	5&6	5&3	5&1			
		rcuits H,G,M,R & S are sp				

2

3

selection 4. External jumper between terminals 2 & 6 for circuit E are provided by customer. Circuit E may be used for SP OFF-ON-ON circuit.

#### 3. RATING 4

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

#### 4. TERMINATION / BASE STYLE

8 term       10 Term       Termination       Jumper         1       2       .250 TAB (QC) no barriers       No         A       B       .250 TAB (QC) with barriers       No         J       K       .250 TAB (QC) no barriers       No         J       K       .250 TAB (QC) no barriers       Yes T2 to 5         3       4       Solder Lug no barriers       No         C       D       Solder Lug no barriers       No         5       6       Wire Leads no barriers       No         E       F       Wire Leads       No         Note: Codes J & K for circuits H, G & M. Do not use silicone based       lubricants to reduce terminal insertion forces during connector         assembly, as it is detrimental to function and performance.       Source
--

**5. ILLUMINATION & SWITCH SEALING** 

3 & 6 end LED lamp	d of switch.	Positive (	+) and negative	(-) symbols apply to
Sealed	Unsealed	<u>Lamps</u>	Illumination Type	Lamp wired to Terminals
S	0	NOŃE		
С	3	2	UP	3 (+) 7 (–)
н	Z	2	INDEPENDENT	8 (+) 7 (–)
DOUBLE F	POLE SWITC	HES ONLY		
м	R	1	UP	3 (+) 6 (-)
		2	DOWN	1(+)'4(-)'
Р	v	1	UP	1(+), 4(-),
		2	UP	3 (+) 6 (-)

#### 6. LOCK

Lock above terminals 1 & 4 end of switch Ŵ lock

#### 8 7. LAMP

Lamp above t No lamp Neon Incandescent LED*	0 1 125VAC	& 6 end of <b>2</b> 250VAC <b>5</b> 6V	switch <b>6</b> 12V superbright	<b>7</b> 18V <b>8</b> 24V superbright
2VDC	Red	Amber	Green	Red
6VDC	B	м	Ġ	ŝ
12VDC	С	Ν	Ĥ	т
24VDC	Р	D	1	V
Z4VDC	U	<b>!</b>	J .	s. Typical current

11

12

#### 8. FLUSH BRACKET COLOR, PANEL SEAL

10

9

No Seal One Seal	Black B C	White W Y	Gray <b>G</b> H	

#### 9. HARD SURFACE ACTUATOR 1

Contura II	Black <b>A</b>	Gray <b>B</b>	Red <b>G</b>	White <b>H</b>		$\bigcirc$
Contura III	с	D	E	F		$\bigcirc$
Actuator orier	s:	3,6	1,4			

#### **10. LENS**

3

Z - No Lens Clear White Amber Green Red Blue -8 D Л Ρ v 

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

#### 11. ACTUATOR LOCK FUNCTION AND COLOR

#### 12. ACTUATOR LENS OR BODY LEGENDS 2

00 21	- No Le 22		23		24			
	OFF	ON		0		I		
25	O 20 F F	6 O N	27	0	28	I		
For	For additional legend options & codes, visit us at www.carlingtech.com							

#### **13. LEGEND ORIENTATION**

0 1 2 3 4	No legend (used wit Orientation 1 Orientation 2 Orientation 3 Orientation 4	th codes	21-28 in : ∭≣⊃ <b>∭</b>	select	tion 12) 	
		1	2	3	4	

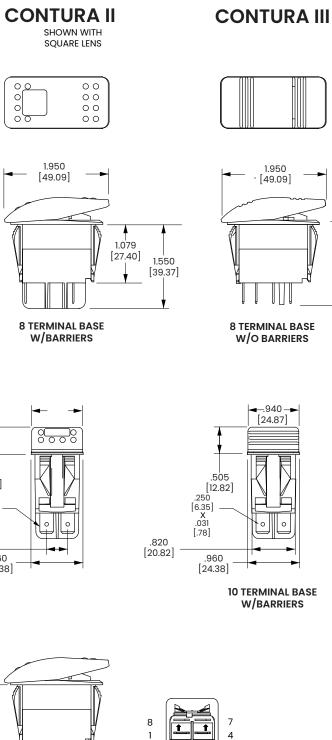
Notes: Consult factory to verify horsepower rating for your particular circuit choice.

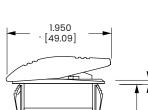
- cuit choice. Custom colors are available. Consult factory. White imprinting is standard on black actuators; Black imprinting is standard on white, red and gray actuators. Custom colors are available, consult factory. Only available with 3 position circuits. Center OFF and special circuits only available with center position lock function. Additional ratings available. See V-Series Switch Accessories page. 2
- 3
- 4

🗟 Configure Complete Part Number > 🛛 🕲 Browse Standard Parts >

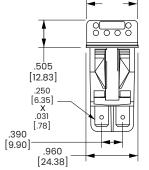
# **Dimensional Specs**

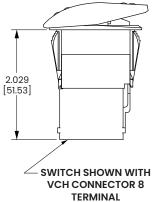
inches [millimeters]







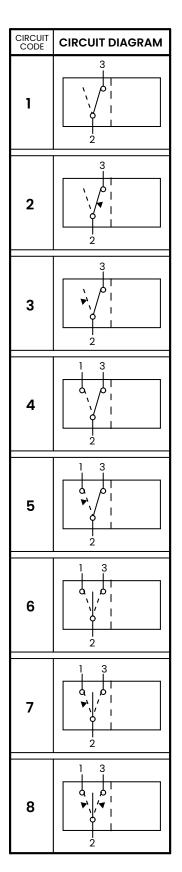


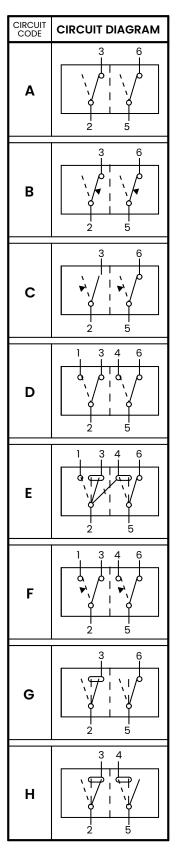


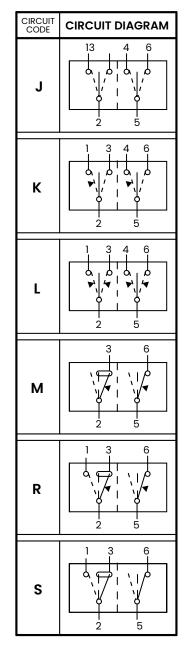
8 1	7 4
2	5
3	6

BOTTOM VIEW TERMINAL ARRANGEMENT **8 TERMINAL BASE** 

# **Circuit Diagrams:**

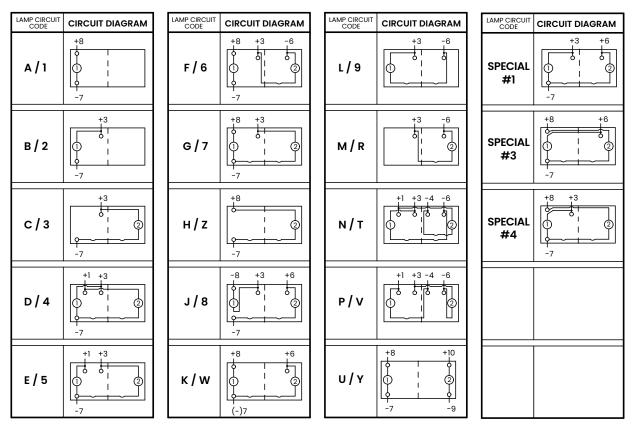




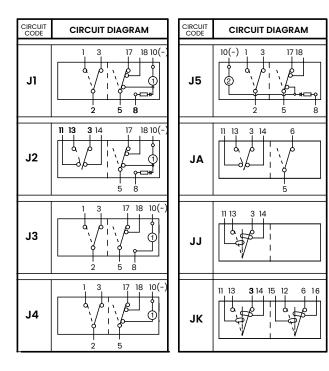


SYMBOL LEGEND			
SYM.	DEFINITION		
0	DESIGNATES TERMINALS AND CONTACTS		
° <b>—°</b>	DESIGNATES MAINTAINED CIRCUITS		
	DESIGNATES OTHER POSITION		
₀₩₀	DESIGNATES MOMENTARY CIRCUITS		
0	DESIGNATES TWO POSITION CONNECTION		
	DESIGNATES EXTERNAL JUMPER PROVIDED BY CUSTOMER		

# Lamp Circuit Diagrams:



## **J-Series Hazard Warning Circuit Diagrams:**



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

SYMBOL LEGEND			
SYM.	DEFINITION		
0	DESIGNATES TERMINALS AND CONTACTS		
Ō	DESIGNATES LAMP LOCATION		

## **Stand-Alone Components**

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

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

Contura II, III, IV, V, VII Actuator only: VV with code A, C, E, G, P or Z for selection 9 & with selections 10-14 in the ordering schemes. Contura X, XI, XII, XIV actuators with lenses separately: VV with code selections 9-14 in the ordering schemes. Panel Seal: VPS

Contura X & XI actuators without lenses separately	Contura XII actuators without lenses separately
VVR 6 1 00 1	VVP J 1 Z 21 1 00
1 2 3 4 5	1 2 3 4 5 6 7
1. CONTURA X & XI ACTUATOR SEPARATELY	1 CONTURA XII ACTUATOR SEPARATELY
VVR	VVP
2. ACTUATOR STYLE & COLOR	2. ACTUATOR STYLE & COLOR
Black Gray White Red Contura X 1 2 3 4 Contura XI 6 7 8 9	J Black K Gray N White M Red
Contura XI 6 7 8 9	3,4 LENS OPENING FOR 1
3. LENS OPENING FOR 1	Z No lens 1 Bar lens 2 Square lens
1     One bar lens       2     Two bar lenses       5     square lens on top/	5, 7 LENS OR BODY LEGEND 2
3One square lensbar lens on bottom4Two square lens(Contura X only)	00 - No Legend 21 22 23 24
4. ACTUATOR LENS OR BODY LEGEND	OFF ON O I 25 0 26 0 27 0 28 I
00 - No Legend this location	25 0 26 0 27 0 28 I
11 ON 12 OFF 13 I 14 O OFF ON O I	For additional legend options & codes, visit us at www.carlingtech.com
15 00 16 00 17 01 18 10 FN NF	6 LEGEND ORIENTATION 3
F F 🖵	0 No legend
For additional legend options & code, visit us at www.carlingtech.com	2 Orientation 2
5. LEGEND ORIENTATION 1	
0 No legend 1 Orientation 1 2 Orientation 2 □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	Contura X, XI & XII actuator lens assembly separately
2       Orientation 2       Image: Constraints       <	VVL 2 1 00 0
Contura X, XI & XII top piece of 2-piece lens separately	1 2 3 4 5
	1 CONTURA X, XI & XII LENS SEPARATELY
	VVL
1 2	2 LENS STYLE 3
1 TOP OF LENS SEPARATELY	1 Bar lens 2 One Piece Square lens
VVT	3 Bottom of Two-Piece Square lens <sup>5</sup>
2 COLOR	3 TRANSLUCENT LENS COLOR
1 Clear 2 Smoke 3 White	1 Clear 2 White 3 Amber 4 Green <sup>4</sup> 5 Red 6 Blue <sup>4</sup>
	4 LENS OR BODY LEGEND 2
Contura X, XI & XII actuator lens assembly:	00 - No Legend 21 22 23 24 OFF ON O I
	25 0 26 0 27 0 28 1
actuator stem top lens 👌 two piece	F N F
posts mount toward actuator stem 💦 💶 bottom lens 🖌 lens assembly	For additional legend options & codes, visit us at www.carlingtech.com.
l piece lens/bar lens are positioned the same as bottom lens for assembly, minus the top lens. Lenses snap in from bottom.	5 LEGEND ORIENTATION 3
Notes: 1 If actuator lens opening for 2 bar or 2 square lenses, legend orientation 0,1,	0 No legend 1 Orientation 1 2 Orientation 2 1 Difference between the second seco
or 2 must be chosen. 2 Center of actuator marking not available for Contura XII.	3 Orientation 3 1 2 3 4
3 Legend is not available for bar style lens.     Not recommended with neon lamps.     Must also order top piece of 2 piece square lens separately.	

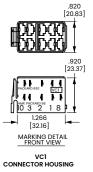
## Accessories

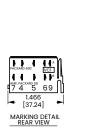
Easily integrate Contura products into your system, with Contura Accessories

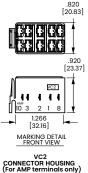
## **Contura Connectors**

Q.C. SELECTION GUIDE						
	PART NO		WIRE RANGE			
COMPANY SERIES	PLAIN BRASS	TIN PLATED BRASS	AWG	MM <sup>2</sup> (REF)	ORIEN- TATION	
	02965580		12	3.0		
	02965471	12010601	(2)16-14	(2)1.0-2.0		
PACKARD 58 SERIES	02965470		16-14	1.0-2.0	в	
SO SERIES	02965469	06288318	20-18	.58		
		12084590	105.0			
		12052224	123.0			
PACKARD		12015870	16-14	1.0-2.0		
METRI-PACK		12020035	(2)22-18	(2).58	А	
630 SERIES	12015832	12015869	20-18	.58		
		12052222	20-22	.355		
	60253-1	60253-2	16-12	1.3-3		
AMP 250 SERIES	00203-1		(2) 16	(2) 1.3		
FASTIN-FASTON	42100-1	42100-2	18-14	.8-2	В	
	60295-1	60295-2	22-18	.39		

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



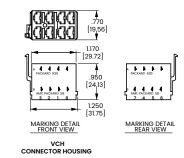




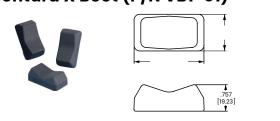




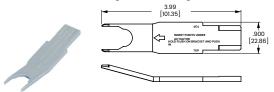




Contura X Boot (P/N VB1-01)



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



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

- .4VA @ 28VDC Resistive 10A 250VAC 1/2 HP, 15A 125 VAC 1/2 HP, No Agency Listings 10A 250VAC 1/2 HP, 15A 125 VAC 1/2 HP, UL Recognized, CSA Certified 51
- В 15A 24V 20A 18V С

1 4

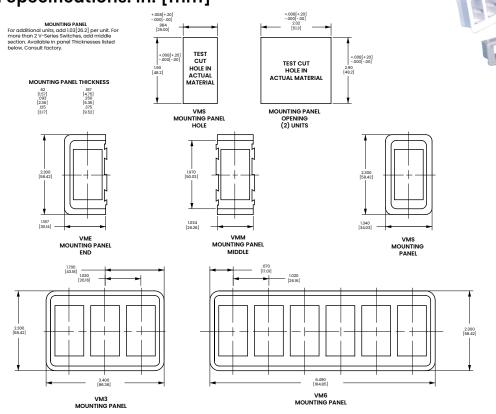
- 20A 12V
- D Е
- 20A 12V 20A 14V, 10A 14VT (circuits 1, 4, A, & D only) 10A 14V, 6A, 14VT (circuit G only) F
- G 20A 6V
  - 20A 3V
- H L<sup>2</sup> 15A 125 VAC, 10A 250VAC, 1/2 HP 125-250 VAC; 6A 125 VAC L .4VA/20A 12V (combi-contact) М
  - (combination gold/silver contacts for borderline dry circuit applications)
- Ν .4VA/15A 24V (combi-contact) (combination gold/silver contacts for borderline dry circuit applications)

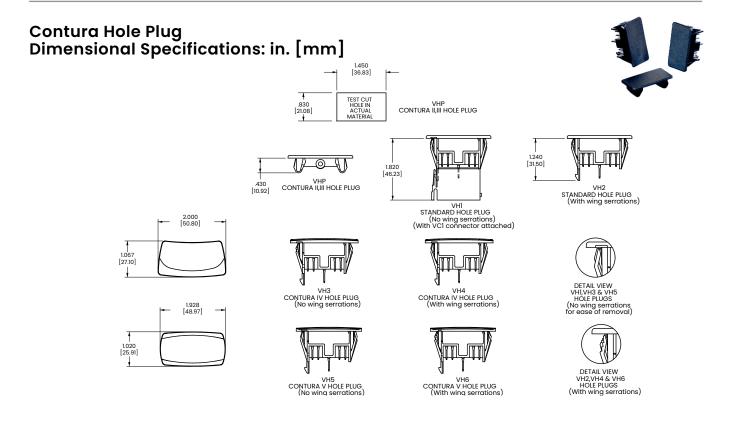
NOTES

- Consult factory to determine availability for individual circuits and their HP rating.
- Not available with Contura 7 or 14 rocker styles. 1.
- 2. Rating L available with circuits 1, 4, A & D only.

## Accessories

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





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## **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 six 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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