V-Series

CONTURA II, III SWITCHES

The V-Series Contura II & III 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 square or bar shaped lenses. Actuators may 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.









Resources:

Download 3D CAD Files



Watch Product Video



Product Highlights:

- Countless options for ratings, circuits, colors, illuminations and legends
- Certified to IP66/68 for front 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



V-Series Switch DESIGN FEATURES

INTERCHANGEABLE ACTUATORS

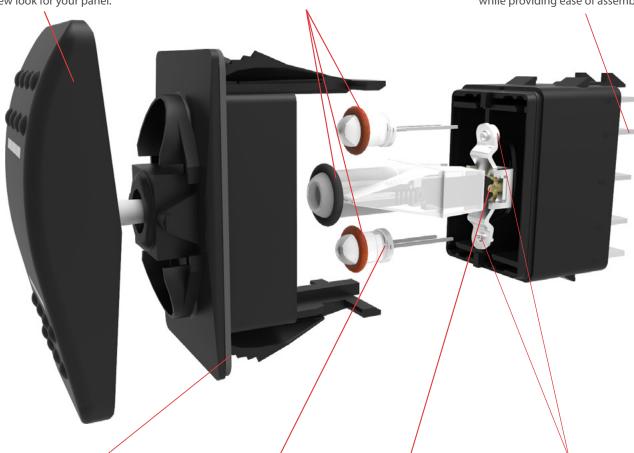
Panel redesign is a snap with our wide range of rocker styles. Achieve maximum design variety with minimum inventory. Simply swap rockers to create an entirely new look for your panel.

DUAL SEAL PROTECTION

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

CLEAN CONNECTIONS

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



OPTIONAL PANEL SEAL

Prevents water/dust ingress behind panel.

MULTIPLE LIGHTING OPTIONS

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

BRASS ROLLER PIN

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

SILVER PLATED BUTT CONTACT MECHANISM

Providing 50k to 100k electrical cycles and a variety of different electrical ratings.

*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 X

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



Contura IV

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



Contura XI

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



Contura V

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



Contura XII

The Contura XII version features a paddle style actuator with the raised bracket/bezel of Contura X and XI. The contoured handle design provides intuitive recognition and ease of operation and is available with all Contura X and XI lens and legend offerings.



Contura VI (WAVE)

The Contura VI WAVF sealed rocker switches, when used in a row, create an uniquely appealing "wave" design on your panel. A variety of colors and finishes are available for both rocker and wave insert. Contura VI features bar and oval lenses.



Contura XIV

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



Contura VII

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



Illuminated Indicators & Accessories

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

Electrical

Contact Rating .4VA @ 24VDC (MAX) resistive

> 15 amps. 125VAC 10 amps. 250VAC 1/2 HP 125-250VAC 20 amps, 4-14VDC 15 amps, 15-28VDC

10A, 14VT 6A, 125VAC L 1500 Volts RMS

Dielectric Strength Insulation Resistance 50 Megohms Initial Contact Resistance 10 milliohms max. @ 4VDC

Life 50,000 - 100,000 cycles circuit dependent

Contacts Silver alloy, silver tin-oxide, fine

silver

Terminals Brass or copper/silver plate 1/4"

(6.3mm) Quick Connect

terminations standard. Solder lug,

Wire Lead

Mechanical

150,000 cycles minimum Endurance

circuit dependent

Physical

Lighted Incandescent - rated 10.000

> hours Neon - rated 25,000 hours LED - rated 100,000 hours 1/2 life (LED is internally ballasted for

voltages to 24VDC)

Internal Seals

Optional external gasket panel seal Base Polyester blend rated to 125°C with

a UL flammability rating of 94V0.

Hard Surface: Basic actuator Contura II, III, IV, V, VI. VII Actuator structure molded of thermoplastic

polycarbonate with a hard Nylon 66 thermoplastic surface overlay.

Soft Surface: Basic actuator structure molded of thermoplastic polycarbonate

with an elastomer overlay.

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

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

ABS shell

Actuator Travel (Angular Displacement)

2 position

3 positions 9° from center

Mounting Specifications

Panel Thickness Range Gaskets Acceptable Panel Thickness .030 to .250 (.76 to 6.35mm) 0 1 .030 to .109 & .147 to .157

(.76 to 2.77mm & 3.73 to 3.98mm)

Recommended: No gasket with panel thickness of .032, .062, .093, .125, .187 or .250



.830[21.08]

Agency Certifications



Corrosion

Shock

Moisture Resistance

Environmental

Sealing Sealed version: IP66/68, this rating applies to front panel components of

the actual switch only, and signifies complete protection against dust as well as powerful jets of water.

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

contacts

-40°C to +85°C Operating Temp.

Per Mil-Std 202F. Method 204D Vibration 1

Test Condition A 0.06 DA or 10G's 10-500 Hz. Tested with VCH connector. Test criteria - No loss of circuit during

test, pre and post test contact

resistance.

Vibration 2 Resonance search

24-50 Hz 0.40 DA 50-2000 Hz ±10 G's peak

Horizontal Axis 3-5 G's max.

Random

24 Hz 0.06 PSD-Gsq/Hz

60 Hz 0.50 100 Hz 0.50 200 Hz 0.025 2000 Hz 0.025

No loss of circuit during test; <10µ

seconds chatter.

Per Mil-Std 202F, Method 213B, Test Condition K @ 30G's. Tested with VCH connector. Test criteria - No loss

of circuit during test, pre and post test contact resistance.

Salt Spray Per Mil-Std 202F, Method 101D, Test Condition A, 96 Hrs. Sealed version only.

Mil STD 810, Method 510.2 Air Velocity Dust

300 Ft/Min Duration 16Hr

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

Cond. A, -55°C to +85°C. Test criteria pre and post test contact resistance Per Mil-Std 202F, Method 106F, Test

Criteria - pre and post test contact

resistance

Ignition Protection All Contura switches with sealed

construction meet the requirements of UL1500/ISO8846 for ignition protection, in addition to conformance with EC directive

94/25/EC for marine products.

8 FLUSH BRACKET COLOR 1, PANEL SEAL

11 ACTUATOR COLOR ¹ AND TEXTURE

Black

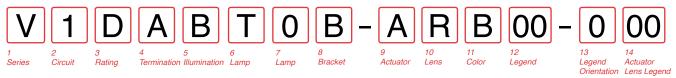
0 - No Actuator

White

Black

В

No Seal



1 SERIES

```
2 CIRCUIT
 Terminal Connections as viewed
                                                                            ( ) - momentary
                                              SP - single pole - uses terminals 1, 2 & 3.
DP - double pole uses terminals 1, 2, 3, 4, 5 & 6.
Terminals 7, 8, 9 & 10 for lamp circuit only.
from bottom of switch:
8 terminal 10 terminal
                         8 - - 7
1 - - 4
   8 - - 7
   2 - - 5
   3 - - 6
                         3 - - 6
                       10 - - 9
                                                            2
Connected Terminals
NONE
NONE
 Position:
                                 2 & 3, 5 & 6
ON
(ON)
                                                                                                              1 & 2, 4 & 5
OFF
OFF
         DP
         ABCDFJ
2345678
                                                                           NONE
                                                                                                                      ON
                                                                           NONE
OFF
OFF
OFF
8 L
SPECIAL CIRCUITS
H*
                                2 & 3
2 & 3, 5 & 6
2 & 3, 5 & 6
(2 & 3, 5 & 6)
(2 & 3, 5 & 6)
                                                                      2 & 3, 5 & 4
2 & 3
2 & 3
2 & 3
2 & 3
                                                                                                                    5 & 4
OFF
G*
S*
                                                                                                                    1 & 2
OFF
2 & 1
M*
                                       5 & 6
*Jumper between terminals 2 & 5 for circuits H,G,M,R & S are specified in selection 4. External jumper between terminals 2 & 4 for circuit E are provided by customer. Circuit E may be used for SP OFF-ON-ON circuit.
```

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

E II I LIMINIATION

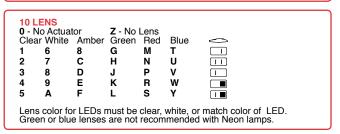
	Termination	Jumper
2	.250 TAB (QC) no barriers	No
В	.250 TAB (QC) with barriers	No
K	.250 TAB (QC) no barriers	Yes T2 to 5
5	Solder Lug no barriers	No
D	Solder Lug	No
6	Wire Leads no barriers	No
F	Wire Leads	No
	10 Term 2 B K 5 D	2 .250 TAB (QC) no barriers B .250 TAB (QC) with barriers K .250 TAB (QC) no barriers 5 Solder Lug no barriers D Solder Lug 6 Wire Leads no barriers

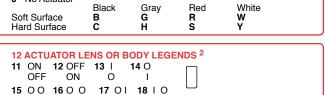
Lamp #1:above terminals 1 & 4 end of switch.; Lamp #2 above terminals 3 & 6 end of switch. Positive (+) and negative (-) symbols apply to LED lamps only								
Sealed	Unsealed	Lamps	Illumination Type	Lamp wired to Terminals				
S A B C D	1	NONE 1	- INDEPENDENT	– 8 (+) 7 (–)				
В	2	1	DOWN UP	3 (+) 7 (-) 3 (+) 7 (-)				
Б	2 3 4	2 1	DOWN	3 (+) 7 (-) 3 (+) 7 (-)				
E	5	2 1	DOWN UP	1 (+) 7 (-) 1 (+) 7 (-)				
_	3	2	UP	3 (+) 7 (-)				
F	6	1	INDEPENDENT UP	8 (+) 7 (-) 3 (+) 6 (-)				
G	7	2 1	INDEPENDENT	8 (+) 7 (–)				
н	7	2	UP INDEPENDENT	3 (+) 7 (-) 8 (+) 7 (-)				
Ü	Z Y	ī	INDEPENDENT	8 (+) 7 (–)				
SINGI F	2 INDEPENDENT 10 (+) 9 (-) SINGLE POLE SWITCHES ONLY							
J	8	1	DOWN	3 (+) 8 (-)				
К	w	2 1	INDEPENDENT INDEPENDENT	6 (+) 7 (-) 8 (+) 7 (-)				
		2	INDEPENDENT	6 (+) 7 (-)				
L L	.E POLE SI 9	WITCHES	DOWN	3 (+) 6 (–)				
M	Ř	1	UP	3 (+) 6 (-)				
N	ı	1 2	DOWN DOWN	3 (+) 6 (-) 1 (+) 4 (-)				
P	V	1	UP	1 (+) 4 (-)				
		2	UP	3 (+) 6 (-)				

6,7 LAMP (SA Selection 6: at No lamp	oove terminal 0	s 1 & 4; Sele			3 & 6
Neon	1 125VAC	2 250VAC			
Incandescent	4 3V	5 6V	6 12V	7 18V	8 24V
LED*			superbright	superbrigh	nt
	Red	Amber	Green	Red	
2VDC	Α	L	F	R	
6VDC	В	М	G	S	
12VDC	Ċ	Ñ	Ĥ	Ť	
24VDC	Ď	P	ä	v	
* Consult facto LED is 20ma.	ory for "daylig	ht bright" LE	D options. Typ	ical current	draw for

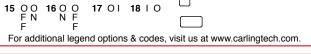
	One Se	aı	C		Υ	н					
Ξ											
	9 ACTU 0 A, B C, D	No Co	OR Actua Intura Intura	II			VVVV	VVVV			
	Actuato	r or	ientati	on al	oove	terminals:	3,6	1,4			

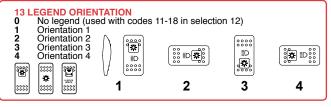
Gray





Red





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

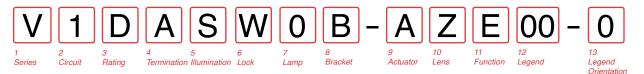
Consult factory to verify horsepower rating for your particular circuit choice.

Custom colors are available. Consult factory.

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.



1 SERIES

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

8 terminal 10 terminal

DP - double pole uses terminals 1, 2, 3, 4, 5 & 6.
  8 - - 7
1 - - 4
                     8 - - 7 1 - - 4
                                        Terminals 7, 8, 9 & 10 for lamp circuit only.
                     2- -5
   2 - - 5
                     3 -
                           - 6
   3 - - 6
                   10 -
                             - 9
                                                   Connected Terminals 1 & 2, 4 & 5
NONE OFF
Position:
                            2 & 3, 5 & 6
ON
1 A
4 D
6 J
7 K
8 L
9 N
SPECIAL CIRCUITS
                                   ON
ON
ON
                                                                                             ON
                                                               NONE
                                                                OFF
OFF
OFF
                                                                                             (ON)
                                                              NONE
                           2 & 3
2 & 3, 5 & 6
2 & 3, 5 & 6
(2 & 3, 5 & 6)
(2 & 3, 5 & 6)
                                                          2 & 3, 5 & 4
2 & 3
2 & 3
2 & 3
2 & 3
                                                                                            5 & 4
OFF
1 & 2
OFF
2 & 1
5 & 1
M*
R*
E*
                                                               5 & 3
```

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

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

A B .250 TAE J K .250 TAE 3 5 Solder L C D Solder L	ion 3 (QC) no barriers No 8 (QC) with barriers No 8 (QC) no barriers Yes T2 to 5 ug no barriers No ug No dds no barriers No no
--	--

5 ILLUMINATION & SWITCH SEALING Lamp #1:above terminals 1 & 4 end of switch.; Lamp #2 above terminals 3 & 6 end of switch. Positive (+) and negative (-) symbols apply to LED lamps only Sealed S Unsealed Illumination Type Lamp wired to Terminals UP 3 (+) 7 (-) 8 (+) 7 (-) INDEPENDENT DOUBLE POLE SWITCHES ONLY M R 1 UP 3 (+) 6 (-)

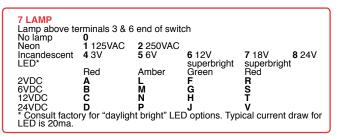
6 LOCK Lock above terminals 1 & 4 end of switch W lock
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Consult factory to verify horsepower rating for your particular circuit choice.

- Custom colors are available. Consult factory.

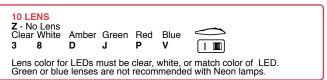
 White imprinting is standard on black actuators; Black imprinting is standard on white,
- red and gray actuators. Custom colors are available, consult factory.

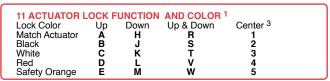
 Only available with 3 position circuits. Center OFF and special circuits only available with center position lock function.
- Additional ratings available. See V-Series Switch Accessories page

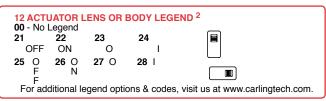


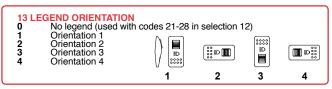
8 FLUSH I No Seal One Seal	BRACKET Black B C	Vhite W	¹ , <mark>PANEL SEAL</mark> Gray G H				
0 HARD C	0 HADD SUDEACE ACTUATOD 1						



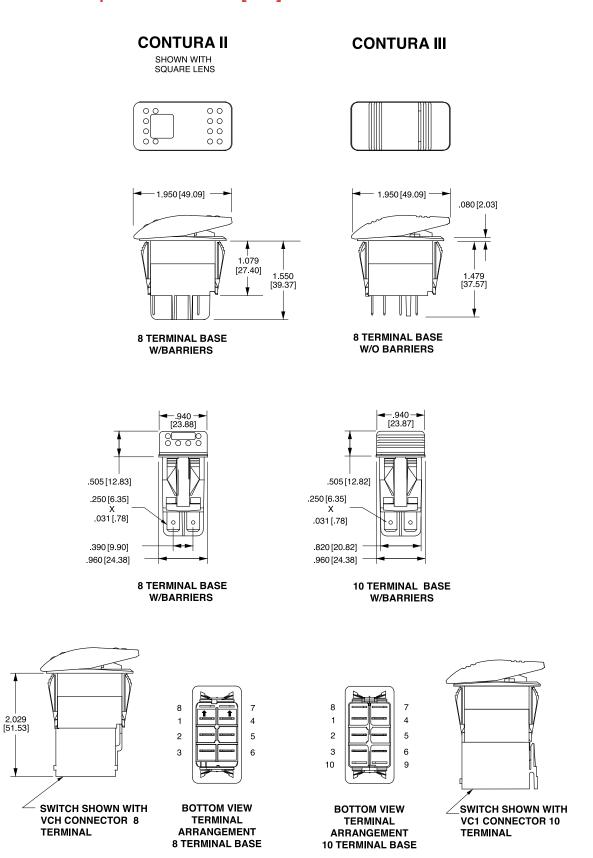




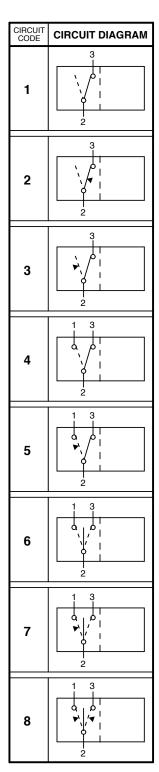


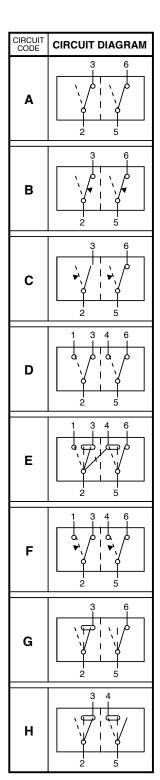


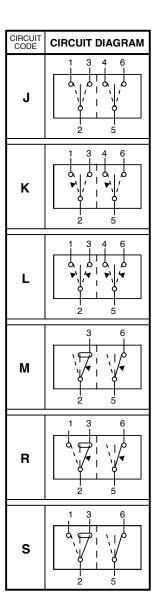
Dimensional Specifications: in. [mm]



Circuit Diagrams:

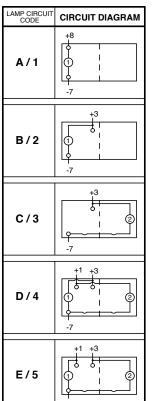


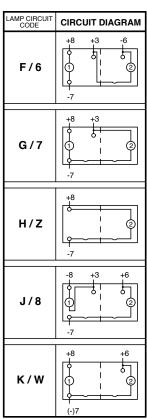




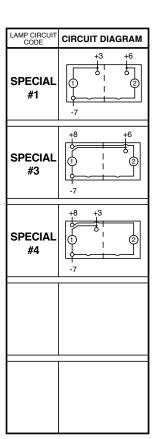
	SYMBOL LEGEND							
SYM.	SYM. DEFINITION							
0	DESIGNATES TERMINALS AND CONTACTS							
— •	DESIGNATES MAINTAINED CIRCUITS							
	DESIGNATES OTHER POSITION							
o -▼ o	DESIGNATES MOMENTARY CIRCUITS							
0	DESIGNATES TWO POSITION CONNECTION							
	DESIGNATES EXTERNAL JUMPER PROVIDED BY CUSTOMER							

Lamp Circuit Diagrams:

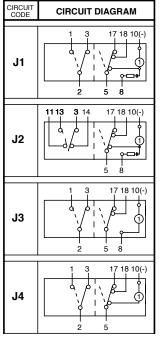


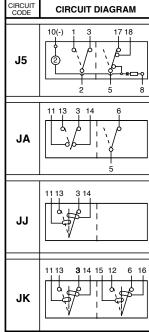


LAMP CIRCUIT CODE	CIRCUIT DIAGRAM
L/9	
M/R	+3 -6
N/T	1 +3 -4 -6
P/V	1 +3 -4 -6
U/Y	+8 +10



J-Series Hazard Warning Circuit Diagrams:





J circuits are available for all non-locking V-Series styles.

Consult factory for partnumber details.

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

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

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

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

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

Contura X, XI, XII, XIV actuators with lenses separately: VV with code selections 9-14 in the ordering schemes.

Panel Seal: VPS

Contura X & XI actuators without lenses separately:



1 CONTURA X & XI ACTUATOR SEPARATELY

2 ACTUATO	R STYLE 8	COLOR			
Contura X Contura XI	Black 1 6	Gray 2 7	White 3 8	Red 4 9	
55ara 70		•		_	

3	LENS OPENING FOR ¹
-	O b l

- One bar lens One bar lenses
- - One square lens two square lens
- square lens on top/ bar lens on bottom (Contura X only)

ACTUATOR LENS OR BODY LEGEND 00 - No Legend this location

- **12** OFF 11 ON 13 I OFF ON 0 0 O F N **16** O O N F 17 0 | 18 | 0
- For additional legend options & codes, visit us at www.carlingtech.com.

5 LEGEND ORIENTATION 1

- Ō No leaend Orientation 1 Orientation 2
- Orientation 3 Orientation 4
- ■D ĪD. ≣D \square 2 3 4

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



Contura X, XI & XII actuator lens assembly:

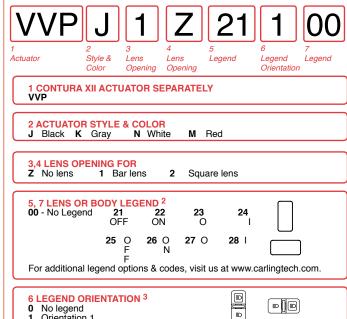


1 piece lens/bar lens are positioned the same as bottom lens for assembly minus the top lens. Lenses snap in from bottom.

Notes

- If actuator lens opening for 2 bar or 2 square lenses, legend orientation 0,1, or 2
- Center of actuator marking not available for Contura XII. Legend is not available for bar style lens.
- Not recommended with neon lamps.
- Must also order top piece of 2 piece square lens separately.

Contura XII actuators without lenses separately:

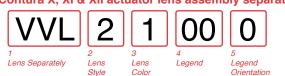


Contura X, XI & XII actuator lens assembly separately:

2

6 Blue 4

5 Red



CONTURA X, XI & XII LENS SEPARATELY VVL

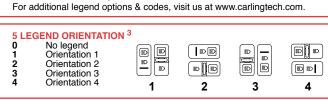
- 2 LENS STYLE 3 Bar lens One Piece Square lens
- **3 TRANSLUCENT LENS COLOR** Clear 2 White 3 Amber

Bottom of Two-Piece Square lens 5

1 Orientation 1 2 Orientation 2



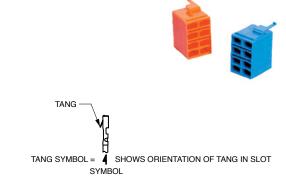
4 Green 4



Easily integrate Contura products into your system, with Contura Accessories

Contura Connectors

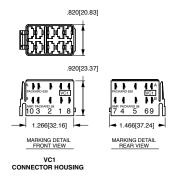
Q.C. SELECTION GUIDE							
	PART NO		WIRE RANGE				
COMPANY SERIES	PLAIN BRASS	TIN PLATED BRASS	AWG	MM ² (REF)	ORIEN- TATION		
	02965580		12	3.0			
	02965471	12010601	(2)16-14	(2)1.0-2.0	1		
PACKARD 58 SERIES	02965470		16-14	1.0-2.0	В		
00 OETHEO	02965469	06288318	20-18	.58			
		12084590	10	5.0			
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

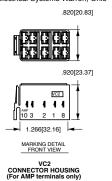


NOTE: Consult Delphi Packard and/or Amp on actual part numbers and availability.

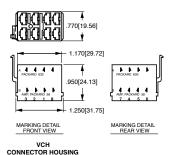
AMP is a registered trademark of AMP Inc. Harrisburg, PA

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





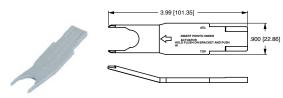




Contura X Boot (P/N VB1-01)



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



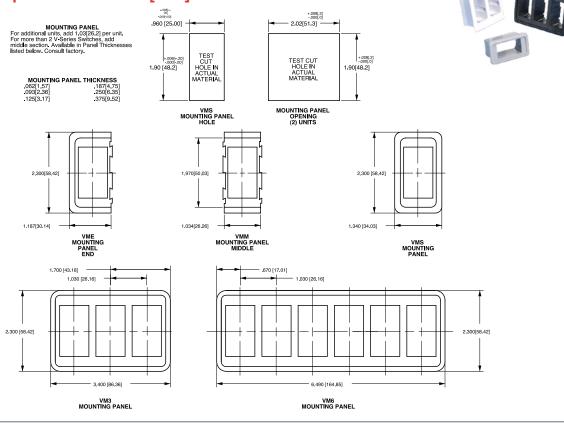
Additional V-Series Ratings

- .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
- В 15A 24V
- 20A 18V
- 20A 12V
- 20A 14V, 10A 14VT (circuits 1, 4, A, & D only) Ε
- 10A 14V, 6A, 14VT (circuit G only)
- G 20A 6V
- 20A 3V
- 15A 125 VAC, 10A 250VAC, 1/2 HP 125-250 VAC; 6A 125 VAC L
- .4VA/20A 12V (combi-contact) Μ
- (combination gold/silver contacts for borderline dry circuit applications) .4VA/15A 24V (combi-contact) Ν
 - (combination gold/silver contacts for borderline dry circuit applications)

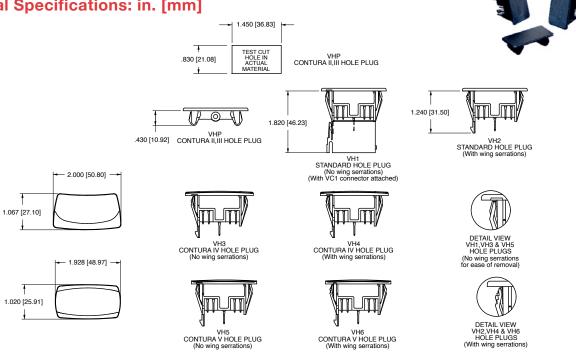
Consult factory to determine availability for individual circuits and their HP rating.

- Not available with Contura 7 or 14 rocker styles.
- Rating L available with circuits 1, 4, A & D only.

Contura Mounting Panels Dimensional Specifications: in. [mm]



Contura Hole Plug Dimensional Specifications: in. [mm]



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