



V-Series

Sealed Rocker Switches

PRODUCT WEBPAGE

request sample, configure part, watch video





Contura® IP66/68 Snap-In Mounted Switches

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.

125-250 Poles **Amps**

Typical Applications

- · On/Off-Highway
- · Armoured Vehicles

Marine

- Mining Machinery
- · Any Application Requiring Sealing Protection







Design Features

INTERCHANGEABLE ACTUATORS

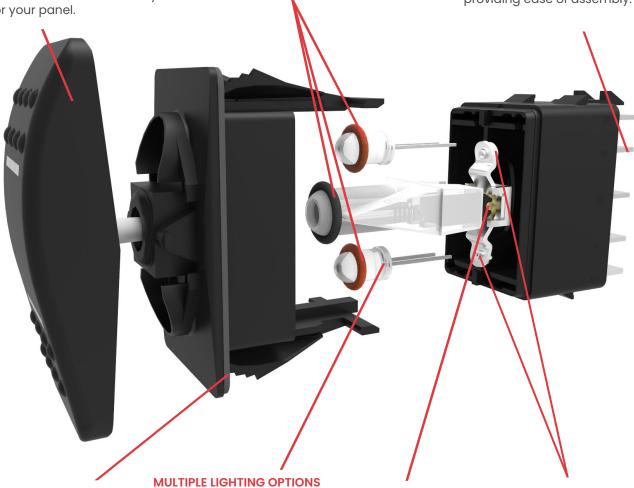
Panel redesign is a snap with our wide range of rocker styles. Achieve maximum design variety with minimum inventory. Simply swap rockers to create an entirely new look for your panel.

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.

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 XII

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



Contura VI (WAVE)

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



Contura XIV

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



Contura VII

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



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

Contact Rating	4VA @ 24VDC (MAX) resistive 15 amps, 125VAC 10 amps, 250VAC 1/2 HP 125-250VAC 20 amps, 4-14VDC 15 amps, 15-28VDC 10A, 14VT 6A, 125VAC L		
Dielectric Strength	1500 Volts RMS		
Insulation Resistance	50 Megohms		
Initial Contact Resistance	10 milliohms max. @ 4VDC		
Life	Up to 100,000 cycles, circuit and load dependent		
Contacts	Silver alloy, silver tin-oxide, fine silver		
Terminals	Brass or copper/silver plate 1/4" (6.3mm) Quick Connect terminations standard. Solder lug, Wire Lead		

Physical

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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

Actuator Travel (Angular Displacement)

2 position	18°
3 positions	9° from center

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.		

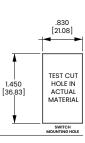
Mounting Specifications

Panel Thickness Range

Gaskets Acceptable Panel Thickness .030 to .250 (.76 to 6.35mm) .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



Ordering Scheme contura || & ||

Sample Part Number Selection 2 3 4 5 6 10 11 12 13 14

1. SERIES

V-Series

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 Terminals 7, 8, 9 & 10 for lamp circuit only. 1- -4 1- - 4 2 - - 5 2 - - 5 3 - - 6 3 - - 6 10--9 Position: 2 & 3,5 & 6 Connected Terminals ON NONE (ON) NONE 1 & 2, 4 & 5 OFF SP DP 1234567 (OFF) NO. NONE Ď ON NONE ON (ON) ON (ON) NONE ON OFF ON OFF (ON) (ON) OFF SPECIAL CIRCUITS 2 & 3 2 & 3, 5 & 4 5 & 4 2 & 3, 5 & 6 2 & 3, 5 & 6 (2 & 3, 5 & 6) (2 & 3, 5 & 6) 2 & 3 2 & 3 OFF 1 & 2 OFF М* 2 & 3 2 & 3 5 & 3 2&1 5 & 6 5 & i

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

.4VA @ 28VDC Resistive 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 .4VA/15A 24V 1 B

4. TERMINATION / BASE STYLE

8 term 1 A J 3 C 5	10 Term 2 B K 4 D 6	Termination .250 TAB (QC) no barriers .250 TAB (QC) with barriers .250 TAB (QC) no barriers Solder Lug no barriers Solder Lug Wire Leads no barriers Wire Leads	Jumper No No Yes T2 to 5 No No No				
E	F						
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

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 Sedled Unsealed Lamps Illumination Type Lamp wired to Terminal Illumination Type Lamp wired to Terminals (+) 7 (-) (+) 7 (-) (+) 7 (-) (+) 7 (-) (+) 7 (-) 3 (+) 7 (-) 3 (+) 7 (-) 3 (+) 7 (-) 3 (+) 7 (-) 8 (+) 7 (-) INDEPENDENT DOWN UP C DOWN 4 DOWN Ε 5 F 6 INDEPENDENT 6 7 7 7 G 7 **INDEPENDENT** INDEPENDENT INDEPENDENT INDEPENDENT '9` SINGLE POLE SWITCHES ONL (+) 8 ((+) 7 ((+) 7 (DOWN 8 INDEPENDENT INDEPENDENT w INDEPENDENT DOUBLE POLE SWITCHES ONLY DOWN 66 M DOWN DOWN UP ν

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

Selection 6: above terminals 1 & 4; Selection 7: above terminals 3 & 6 No lamp Neon 0 1125VAC 2 250VAC Incandescent 43V **5** 6V 6 12V 7 18V superbright superbright Red Red Amber Green 2VDC 6VDC В G S 12VDC 24VDC D * Consult factory for "daylight bright" LED options. Typical current draw for LED is 20ma.

8. FLUSH BRACKET COLOR, PANEL SEAL

No Seal	Black	White	Gray	
	В	VV	G	
One Seal	С	Υ	Н	

9. ACTUATOR

0 A, B C, D	No Actuator Contura II	
Actuato	or thick end over terminals: 3,6 1,4	

10. LENS 1

		torZ - N				
Clear	Whi	te Amb	er Gree	en Red	Blue	e
1	6	8	G	М	Т	
2	7	С	н	N	U	
3	8	D	J	Р	V	
Square	lens	options	only av	/ailable	for C	Contura II.
4	9	Ė	ĸ	R	w	
5	Α	F	L	S	Υ	
Lens co Green	olor fo or blu	r LEDs m e lenses	ust be are no	clear, ot recor	white, nmer	, or match color of LED. nded with Neon lamps.

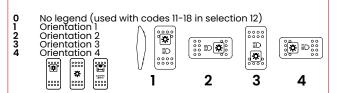
11. ACTUATOR COLOR AND TEXTURE 1

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

12. ACTUATOR LENS OR BODY LEGENDS 2

_							
11	ON OFF	12 OFF ON	13	14 O	Π		
15	0 0 F N F	16 O O N F F	17 OI	18	° 🗀		
	For addit	ional leger	d options	& code	es, visit us at ww	w.carlingtech.	com

13. LEGENDS ORIENTATION



14. ACTUATOR LENS LEGENDS

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.

Ordering Scheme contura II & III locking

Sample Part Number Selection

1. SERIES

V-Series

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 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 1 2 3 2 & 3, 5 & 6 Connected Terminals 1 & 2, 4 & 5 ON NONF Position: SP DP ON ON 4 6 7 8 9 D NONE OFF OFF (ON) (ON) OFF NONE SPECIAL CIRCUITS H* 2 & 3 2 & 3, 5 & 4 5 & 4 2 & 3, 5 & 6 2 & 3, 5 & 6 (2 & 3, 5 & 6) (2 & 3, 5 & 6) G* 2 & 3 2 & 3 2 & 3 OFF 1 & 2 М* OFF 2 & 3 2&1

*Jumper between terminals 2 & 5 for circuits HGMR & 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 15A 24V 20A 18V 20A 14V, 10A 14VT (circuit 1, 4 , A & D only) 10A 14V, 6A 14VT (circuit G only) .4VA/20A 12V .4VA/15A 24V

4. TERMINATION / BASE STYLE

8 term	10 Term	Termination	Jumper
1	2	.250 TAB (QC) no barriers .250 TAB (QC) with barriers	No
Α	В	.250 TAB (QC) with barriers	No
J	K	.250 TAB (QC) no barriers	Yes T2 to 5
3	4	Solder Lug nó barriers	No
С	D	Solder Lug	No
5	6	Wire Leads no barriers	No
E	F	Wire Leads	No

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

3 & 6 end of switch. Positive (+) and negative (-) symbols apply to LED lamps only									
Sealed	Unséaled	Lamps	Illumination Type	Lamp wired to Terminals					
S	0	NONE		i					
С	3	2	UP	3 (+) 7 (-)					
Н	Z	2	INDEPENDENT	8 (+) 7 (-)					
DOUBLE P	OLE SWITCH	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

7. LAMP

Lamp above terminals 3 & 6 end of switch No lamp 0 1125VAC 2 **250VAC** 5 **6V** Neon Incandescent LED* 4 3V 6 12V 7 18V 8 **24V** superbright superbright Red **Amber** Green Red 2VDC 6VDC В М 24VDC D * Consult factory for "daylight bright" LED options. Typical current draw for LED is 20ma.

8. FLUSH BRACKET COLOR, PANEL SEAL 1

No Seal One Seal	Black \ B \ C \	White W Y	Gray G H
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9. HARD SURFACE ACTUATOR 1

Contura II	Black A	Gray B	Red G	White H	
Contura III	С	D	E	F	
Actuator orier	ntation c	3,6 1,4			

10. LENS

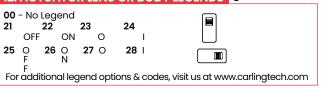
	White	Amber D				
Lens color for LEDs must be clear, white, or match color of LED.						

Green or blue lenses are not recommended with Neon lamps.

11. ACTUATOR LOCK FUNCTION AND COLOR 1

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

12. ACTUATOR LENS OR BODY LEGENDS 2



13. LEGEND ORIENTATION

0 1 2 3 4	No legend (used vorientation 1 Orientation 2 Orientation 3 Orientation 4	with codes	21-28 in	selec	tion 12)	
		1	2	3	4	

Notes: Consult factory to verify horsepower rating for your particular

- Cust 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.

© Configure Complete Part Number > © Browse Standard Parts >

Ordering Scheme contura IV

B-E P C Sample Part Number

Selection

1. SERIES

V-Series

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 Terminals 7, 8, 9 & 10 for lamp circuit only. 8 - - 7 1 - - 4 1- -4 2 - - 5 2 - - 5 3 - - 6 3 - - 6 10--9 Position: 2 & 3, 5 & 6 Connected Terminals 1 & 2, 4 & 5 ON NONE OFF ON NONE OFF ON NONE (OFF) SP 1 2 3 4 5 6 7 8 ABCDF ON ON ON ON NONE NONE OFF OFF OFF SPECIAL CIRCUITS 2 & 3, 5 & 4 2 & 3 2 & 3 2 & 3 2 & 3 2 & 3 2 & 3, 5 & 6 2 & 3, 5 & 6 (2 & 3, 5 & 6) (2 & 3, 5 & 6) OFF 1 & 2 OFF 2 & 1 M* R* 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 or 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 20A 12V 20A 14V, 10A 14VT (circuit 1, 4, A & D only) 10A 14V, 6A 14VT (circuit G only) .4VA/20A 12V .4VA/15A 24V BCDEF

4. TERMINATION / BASE STYLE

<u>8 term</u>	10 Term	Termination	<u>Jumper</u>
<u> </u>	_	.250 TAB (QC) no barriers	No .
Α	В	.250 TAB (QC) with barriers	No
J	K	.250 TAB (QC) no barriers	Yes T2 to 5
3	4	Solder Lug no barriers	No
С	D	Solder Lug	No
5	6	Wire Leads no barriers	No
E	F	Wire Leads	No
			1 1

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 t	o LED lamp	s only		aga () 5)55.5
<u>Sėaléd</u>	o LED lamp <u>Unsealed</u>	<u>Lamps</u>	Illumination Type	<u>Lamp wired to Terminals</u>
S	0	NOŅĒ	=	- , , , ,
Α	1	1	INDEPENDENT	8 (+) 7 (-) 3 (+) 7 (-) 3 (+) 7 (-) 3 (+) 7 (-)
В	2 3	1	DOWN	3 (+) 7 (-)
С	3	2	UP	3 (+) 7 (-)
D	4	1	DOWN	3 (+) 7 (-)
_	_	2	DOWN	! (+) / (-)
E	5	Į.	UP	[(+\\/(- \
l _	_	2	UP	3 (+) / (-)
F	6	ı	INDEPENDENT	8 \ + \ / \ \ - \
	-	2	UP	3 (+) 6 (-)
G	/	Ï	INDEPENDENT	3 (+) 7 (-) 8 (+) 7 (-) 3 (+) 6 (-) 8 (+) 7 (-) 3 (+) 7 (-)
l	-	2	UP	3 5 7 7 5 7
H U	Z Y	2	INDEPENDENT	8 (+) 7 (-) 8 (+) 7 (-)
U	Ť	ı	INDEPENDENT INDEPENDENT	8 (+) 7 (-) 10 (+) 9 (-)
CINICIE	POLE SWITC	TIES ONI		10 (1) 9 ()
J	8	I I I	DOWN	3 (+) 8 (-)
J .	O	2	INDEPENDENT	6 (+) 7 (-)
К	w	í	INDEPENDENT	8 (+) 7 (-)
N	**	2	INDEPENDENT	6 \ + \ 7 \ - \
DOUBLE	POLE SWIT	CHES ON		
L	9	1	DOWN	3 (+) 6 (-)
M	Ř	i	UP	3 (+) 6 (-)
N	Ï	i	DOWN	3 (+) 6 (-) 3 (+) 6 (-) 3 (+) 6 (-)
		2	DOWN	1(+)'4(-)'
P	V	1	UP	1 (+) 4 (-)
		2	UP	3 (+) 6 (-)

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

Selection 6: above terminals 1 & 4; Selection 7: above terminals 3 & 6 No lamp 0 1 125VAC 2 250VAC 5 6V Neon Incandescent 43V LED* 6 12 V 7 18V 8 24V superbright superbright Green Red Red Amber 2VDC 6VDC В S м G 12VDC 24VDC D P J V

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

13

8. FLUSH BRACKET COLOR, PANEL SEAL

|--|--|

9. ACTUATOR

10. LENS

5 A F L S Y		Clear 1 2 3 4	Actuato White 6 7 8 9			Red M N P R	Blue T U V W	
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Lens color for LEDs must be clear, white, or match color of LED. Green or blue lenses are not recommended with Neon lamps.

11. ACTUATOR COLOR 1, 5, 6

III. AGI GA		O LOIN				
No Actuator White	0 Y	Black Nickel	Gray Pewter	H E	Red	s

12. ACTUATOR LENS OR BODY LEGENDS 2

11	ON OFF	12 OFF ON	13 O	14 O			
15	0 0 F N F	16 O O N F F	17 01	18 1 0			
For additional leaend options & codes, visit us at www.carlinatech.com							

13. LEGENDS ORIENTTATION

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

13. ACTUATOR LENS LEGENDS

90 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.

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

Gloss brow is on left side of E actuator and right side of F actuator.

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

Laser etched rocker only available with lens code Z & actuator colors

black, nickel or pewter.

Pewter and nickel colors only available with laser etched actuator

Ordering Scheme

Sample Part Number 6 7 8 Selection

1. SERIES

V-Series

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 Terminals 7, 8, 9 & 10 for lamp circuit only. 8 - - 7 1 - - 4 8 - - 7 1 - - 4 2 - - 5 3 - - 6 3 - - 6 10--9 Position: SP DP 1 A 2 B 3 C 4 D 5 F 6 J 7 K 8 L 2 & 3, 5 & 6 ON Connected Terminals NONE 1 & 2, 4 & 5 OFF ON ON ON ON ON ON OFF (OFF) NONE NONE NONE NONE OFF (ON, SPECIAL CIRCUITS H* 2&3 2 & 3, 5 & 4 5 & 4 2 & 3 2 & 3 2 & 3 2 & 3 2 & 3 5 & 3 2 & 3, 5 & 6, 2 & 3, 5 & 6, 2 & 3, 5 & 6, (2 & 3, 5 & 6, (2 & 3, 5 & 6 OFF 1 & 2 OFF 2 & 1 M* R* E*

*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

8.

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

4. TERMINATION / BASE STYLE

8 term 10 T A B J K 3 4 C D 5 6 F	Termination .250 TAB (QC) no barriers .250 TAB (QC) with barrier .250 TAB (QC) no barriers Solder Lug no barriers Solder Lug Wire Leads no barriers Wire Leads	Jumper S No ITS NO S Yes T2 to 5 NO NO NO
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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 LFD lamps only

apply to LED	idrips only		
Sealed Unsea S 0	<u>led Lamps</u>	Illumination Type	Lamp wired to Terminals
S 0	NONE	_	- , , , ,
A 1	1	INDEPENDENT	8 (+) 7 (-)
B 2	1	DOWN	3 (+) 7 (–)
C 3	2	UP	3 (+) 7 (–)
D 4	1	DOWN	3 (+) 7 (-)
	2	DOWN	1 (+) 7 (-)
E 5	1	UP	1(+)7(-)
	2	UP	3 (+) 7 (-)
F 6	1	INDEPENDENT	8 (+) 7 (-)
	2	UP	3 (+) 6 (–)
G 7	1	INDEPENDENT	8 (+) 7 (-) 3 (+) 7 (-)
	2 2	UP	3 (+) 7 (-)
H Z	2	INDEPENDENT	8 (+) 7 (–)
U Y	1	INDEPENDENT	8 (+),7 (-),
	2	INDEPENDENT	10 (+) 9 (-)
SINGLE POLE	SWITCHES ON		() ()
J 8	1	DOWN	3 (+) 8 (-)
	2	INDEPENDENT	6 (+) 7 (-)
K W	1	INDEPENDENT	8 (+) 7 (-)
	2	INDEPENDENT	6 (+) 7 (-)
DOUBLE POLE	SWITCHES O		- () - ()
L 9	1	DOWN	3 (+) 6 (-)
M R	1	UP	3 (+) 6 (-)
N T	1	DOWN	3 (+) 6 (-)
	2	DOWN	1 (+) 4 (-)
P V	1	UP	1(+)4(-)
	2	UP	3 (+) 6 (-)

6,7. LAMP

Selection 6: above terminals 1 & 4; Selection 7: above terminals 3 & 6 No lamp $oldsymbol{0}$ No lamp neon incandescent 1125VAC 4 3V LED* **2** 250VAC **5** 6V 6 12V **7** 18V 8 24V superbright superbright Green Red Red Amber 2VDC 6VDC 12VDC Ν 24VDC D P J V

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

8. FLUSH BRACKET COLOR, PANEL SEAL 1

Black White Gray al B W G eal C Y H

9. ACTUATOR

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

10. LENS

0 - No .	Actuato	r Z - No	Lens		style	& location: #1 / #2	
Clear	White	Ambei	Green	Red		•	
1	6	8	G	М	T		
2	7	С	Н	N	U		
3	8	D	J	Р	V		
4	9	E	K	R	W	$\overline{\bullet}$	
5	Α	F	L	S	Υ	<u></u>	
Lens color for LEDs must be clear, white, or match color of LED. Green or blue lenses are not recommended with Neon lamps.							

11. ACTUATOR COLOR 1, 3, 5

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

12. ACTUATOR LENS OR BODY LEGENDS 2,6

11	ON OFF	12 OFF ON	13 I O	14 O			
15	0 0 F N F	16 O O N F F	17 01	18 0			
For additional legend options & codes, visit us at www.carlingtech.com							

12. LEGENDS ORIENTATION

0 1	No legend (used with Orientation 1	codes 11	l-18 in selecti	on 12)	
2 3 4	Orientation 2 Orientation 3 Orientation 4	•	P		
		1	2	3	4
		1	2	3	4

13. ACTUATOR LENS LEGEND

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.

White imprinting is standard on black actuators; Black imprinting is standard

- on white, red and gray actuators. Custom colors are available, consult factory. Laser Etched rocker only available with lens code Z & actuator colors black, nickel or pewter.
- Additional ratings available. See V-Series Switch Accessories page. Nickel and Pewter colors only available with laser etched actuator. Consult factory for laser etched lens callout.

Ordering Scheme contura IV & V Locking

Sample Part Number 6 10 Selection

1. SERIES

V V-Series

2. CIRCUIT 3

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 - - 7Terminals 7, 8, 9 & 10 for lamp circuit only. 1 - - 4 8 - - 7 1 - *-* 4 2 - - 5 3 - - 6 3 - - 6 10--9 2 3 Connected Terminals 1 & 2, 4 & 5 NONE OFF NONE OFF Position: SP 1 4 6 7 2 & 3, 5 & 6 ON ON DP A OFF OFF OFF NONE

3. RATING 4

1	.4VA @ 28VDC Resistive
<u> </u>	
В	15A 24V
B C D E F	20A 18V
ň	20A 12V
ט	20A 12V
E	20A 14V. 10A 14VT (circuit 1. 4 . A & D only)
Ē	20A 14V, 10A 14VT (circuit 1, 4 , A & D only) 10A 14V, 6A 14VT (circuit G only)
	10A 17V, 0A 14V I (Circuit O Olly)
М	.4VA/20A 12V
N	.4VA/15A 24V
1.4	.4VA/ISA 24V

4. TERMINATION / BASE STYLE

8 term	<u>10 Term</u>	<u>Termination</u>	<u>Jumper</u>
1	2	.250 TAB (QC) no barriers	No ·
Α	В	.250 TAB (QC) with barriers	No
J	K	.250 TAB (QC) no barriers	Yes T2 to 5
3 J	4	Solder Lug no barriers	No
C	D	Solder Lud	No
C 5	6	Wire Leads no barriers	No
E	F	Wire Leads	No
NI=+=. O=	-1 1 C 1/ 4-	::	-: :

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

INDEPENDENT NLY UP DOUBLE POLE SWITCHES ONL 3 (+) 6 (-)

6. LOCK

Lock a	bove terminals 1 & 4 en	d of switch.	
w	low profile lock	γ6	high profile lock

Notes: Consult factory to verify horsepower rating for your particular

- Notes: Consult factory to verify horsepower rating for your particular circuit choice.
 1 Custom colors are available. Consult factory.
 2 White imprinting is standard on black actuators; Black imprinting is standard on white, red and gray actuators. Custom colors are available, consult factory.
 3 Only available with 3 position circuits. Center OFF and special circuits only available with center position lock function.
 4 Additional ratings available. See V-Series Switch Accessories page.
 5 Located at T3-6 end of switch.
 6 Contura V style only.

7. LAMP

Lamp above terminals 3 & 6 end of switch No lamp 0						
Neon Incandescent	1 125VAC 4 3V	2 250VAC 5 6V	6 12V	7 18V	8 24V	
LED*	4 5 V	300	superbright			
	Red	Amber	Green	Red		
2VDC	Α	L	F	R		
6VDC	В	М	G	S		
12VDC	С	N	Ĥ	Ť		
24VDC	D	P	J	V		
* Consult factory for "daylight bright" LED options. Typical current draw for LED is 20ma.						

8. FLUSH BRACKET COLOR, PANEL SEAL 1

9. HARD SURFACE ACTUATOR

CONTURA IV: Orientation Left Right	Black J N	Gray K P	Red L R	White M S	
			Actuato	r orientation over terminals:	3,6 1,4
CONTURA V:	Black U	Gray V	Red W	White Y	
			Actuator	orientation over terminals:	3,6 1,4

10. LENS 5

ш								
	Z - No L Clear A G		С	D	Red E L	F	e bar lens oval lens	
	Lens color for LEDs must be clear, white, or match color of LED. Green or blue lenses are not recommended with Neon lamps.							

11. ACTUATOR LOCK FUNCTION AND COLOR 1

II. ACTUATOR ECORTONOTION AND COLOR						
Lock Color Match Actuator Black White Red Safety Orange Gray	U Р В С D E F	Down H J K L M G	Up & Down R S T V W N	Center ³ 1 2 3 4 5 6		

12. ACTUATOR LENS OR BODY LEGENDS 2

00	- No Leg	end					
21	22	23	24	> (■)			
	OFF	ON	0				
25	O 26	O 27	O 28				
For	F For additional legend options & codes, visit us at www.carlingtech.com						

13. LEGENDS ORIENTTATION

	LLOCIADO OKILIA	I I A I I O I I			
0 1 2 3 4	No legend Orientation 1 Orientation 2 Orientation 3 Orientation 4				
		1	2	3	4

Ordering Scheme contura VI Wave

4

6

8

2

3

V-Series

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 Terminals 7, 8, 9 & 10 for lamp circuit only. 8 - - 7 1 - - 4 1--4 . 2 - - 5 2 - - 5 3 - - 6 3 - - 6 10 - 91 2 & 3, 5 & 6 ON (ON) 2 Connected Terminals NONE NONE Position: Position SP DP 1 A 2 B C 4 D F 6 J K L SP C A 8 1 & 2, 4 & 5 OFF OFF NONE OFF OFF ON ŎFF 8 L SPECIAL CIRCUITS H* G* S* M* R* E* 2 & 3 2 & 3, 5 & 4 2 & 3, 5 & 6 2 & 3, 5 & 6 (2 & 3, 5 & 6) (2 & 3, 5 & 6) 2 & 3 2 & 3 2 & 3 OFF 1 & 2 OFF 2 & 1 5 & 1 2 & 3 5 & 3 5 & 6 *Jumper between terminals 2 & 5 for circuits H,G,M,R & S are specified inselec-

tion 4. External jumper between terminals 2 & 4 for circuit E are provided by

3. RATING 3

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

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

4. TERMINATION / BASE STYLE

8 term I A J 3 C	10 Term 2 B K 4 D	Termination 250 TAB (QC) no barriers 250 TAB (QC) with barriers 250 TAB (QC) no barriers Solder Lug no barriers Solder Lug Wire Leads no barriers	Jumper No No Yes T2 to 5 No No 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 I	amps only	<i>'</i>		
<u>Sealed</u>	<u>Unsealed</u>	<u>Lamps</u>	Illumination Type	Lamp wired to Terminals
S	0	NONE	_	-,;
Α	1	1	INDEPENDENT	8 (+) 7 (-)
В	2	1	DOWN	3 (+) 7 (-)
С	2 3	2	UP	3 (+) 7 (-)
D	4	1	DOWN	3 (+) 7 (-)
		2	DOWN	1 (`+)`7 (`-)`
E	5	1	UP	1(+)7(-)
		2	UP	3 (+) 7 (-)
F	6	1	INDEPENDENT	8 (+) 7 (-)
		2	UP	8 (+) 7 (-) 3 (+) 6 (-) 8 (+) 7 (-) 3 (+) 7 (-)
G	7	1	INDEPENDENT	8 (+) 7 (-)
		2	UP	3 (+) 7 (-)
Н	Z	2	INDEPENDENT	8 (+) 7 (-)
U	Υ	1	INDEPENDENT	8 (+) 7 (-)
		2	INDEPENDENT	10 (+) 9 (-)
SINGLE	POLE SWIT	CHES ON	NLY	() ()
J	8	1	DOWN	3 (+) 8 (-)
		2	INDEPENDENT	6 (+) 7 (-)
K	W	1	INDEPENDENT	8 (+) 7 (-)
		2	INDEPENDENT	6 (+) 7 (-)
DOUBLE	POLE SWI	TCHĒS C		- () · ()
L	9	1	DOWN	3 (+) 6 (-)
M	Ř	1	UP	3 (+) 6 (-)
N	Ť	1	DOWN	3 (+) 6 (-)
		2	DOWN	1 (+) 4 (-)
P	V	ī	UP	1 (+) 4 (-)

9 6.7. LAMP

Lamp above terminals 3 & 6 end of switch No lamp 0 1 125VAC 2 250VAC 4 3V 5 6V 6 12V 7 18V 8 24V Incandescent 43V superbright superbright Green Red Red Amber 2VDC 6VDC A B C Ġ 12VDC N *Consult factory for "daylight bright" LED options. Typical current draw for LED is 20ma.

8. FLUSH BRACKET COLOR, PANEL SEAL

o Seal ene Seal

One Seal	C	Y	Ĥ	
9. ACTUAT	FOR			

H High Insert

(3)

L Low Insert

10.11. LENS

0 No Actuator

0 - No i	Actuato White	r Amber	Z - No Green	Lens Red	Blu	е
_	7	С	Н	N	U	Bar Lens Translucent
3	-	D	J	Р	V	Bar Lens Transparent
4	-	E	K	R	W	Oval Lens Transparent
-	Α	F	L	S	Υ	Oval Lens Translucent

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

12. ACTUATOR COLOR

C Black **H** Gray **S** Red Y White

13. INSERT COLOR

D	Black Bright Chrome Plated Satin Chrome Painted Bright Nickel Plated	Ť	Satin Chrome Plated Satin Nickel Plated White	
---	---	---	---	--

14. ACTUATOR LENS OR BODY LEGEND 2

00 - No Legend this location/No actuator								
11		12 OFF ON						
15	O O F N F	16 O O N F F	17 OI	18 1 0				
For	additio	nal legend	options	& codes, vi	sit us at www.carlingtech.com			

15. ACTUATOR ORIENTATION

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

16. ACTUATOR LENS LEGEND

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

Notes: Consult factory to verify horsepower rating for your

Position of the control of the contr

Ordering Scheme contura VII

B - ZR Sample Part Number 6 Selection 4 5

1. SERIES

V-Series

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 Terminals 7, 8, 9 & 10 for lamp circuit only. 8 - - 7 1 - - 4 8 - - 7 1 - - 4 2 - - 5 3 - - 6 3 - - 6 10--9 Position: SP DP 1 A 2 B 3 C 4 D 5 F 6 K 2 & 3, 5 & 6 ON (ON) ON ON Connected Terminals NONE NONE 1 & 2, 4 & 5 OFF OFF NONE ON OFF OFF OFF 8 SPECIAL CIRCUITS
H*
G* 2 2 & 3 2 & 3, 5 & 4 2 & 3, 5 & 6 2 & 3, 5 & 6 (2 & 3, 5 & 6) (2 & 3, 5 & 6) 2 & 3 2 & 3 2 & 3 OFF 1 & 2 OFF 2 & 1 5 & 6 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 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

4. TERMINATION / BASE STYLE

8 term	10 Term	Termination .250 TAB (QC) no barriers .250 TAB (QC) with barriers .250 TAB (QC) no barriers Solder Lug no barriers Solder Lug no barriers Wire Leads no barriers	Jumper
1	2		No
A	B		No
J	K		Yes T2 to 5
3	4		No
C	D		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.

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

ı	apply to	o ren iamb	s only		
ı	Sealed	<u>Unsealed</u>	Lamps	Illumination Type	<u>Lamp wired to Terminals</u>
ı		0	NONE		
ı	Α	1	1	INDEPENDENT	8 (+) 7 (-)
ı	В	2	1	DOWN	3 (+) 7 (-)
ı	č	3	2	UP	
ı	Ď	3 4	ī	DOWN	3 (+) 7 (-) 3 (+) 7 (-)
ı	_	-	2	DOWN	14776-1
ı	E	5	1	UP	; } <u>;</u> { 4 }_{
ı	_	3	2	UP	3(+)7(-)
ı	F	6	1	INDEPENDENT	8 (+) 7 (-)
ı	г	0	,		
ı	_	7	2 1	UP	3 (+) 6 (-) 8 (+) 7 (-)
ı	G	,		INDEPENDENT	3 (+) 7 (-)
ı		_	2 2	UP	
ı	Н	Z	2	INDEPENDENT	8 (+) 7 (-)
ı	U	Υ	<u>!</u>	INDEPENDENT	8 (+),7 (-)
ı			2	INDEPENDENT	10 (+) 9 (-)
ı		POLE SWIT	CHES ONI		() ()
ı	J	8	1	DOWN	3 (+) 8 (-)
ı			2	INDEPENDENT	6 (+) 7 (-)
ı	K	W	1	INDEPENDENT	8 (+) 7 (-)
ı			2	INDEPENDENT	6 (+) 7 (-)
ı	DOUBLE	POLE SWIT	CHES ON	ILY	, , , ,
ı	L	9	1	DOWN	3 (+) 6 (-)
ı	М	R	1	UP	3 (+) 6 (-)
ı	N	Т	1	DOWN	3 (+) 6 (-)
ı			2	DOWN	1(+)4(-)
ı	P	V	ī	UP	i (+) 4 (-)
ı	•	,	2	UP	3(+)6(-)
ı			-	· .	

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

Selection 6: above terminals 1 & 4; Selection 7: above terminals 3 & 6 No lamp 0 1 125VAC **2** 250VAC **5** 6V Neon Incandescent **4** 3V 6 12V **7** 18V superbright **Red** superbright Green IFD* 2VDC 6VDC 12VDC A B R G Ν 24VDC D P J V
* Consult factory for "daylight bright" LED options. Typical current draw for LED is 20ma.

8. FLUSH BRACKET COLOR, PANEL SEAL 1

9. ACTUATOR

0 Z	No Actuator Contura VII	
Actua	tor orientation over terminals:	3,6 1,4

10. LENS

Lens color for LEDs must be clear, white, or match color of LED. Green or blue lenses are not recommended with Neon lamps. **0** - No Actuator **Z** - No Lens **Z** - No Green Amber Red Blue Lens style & location 6 В G Т 7 С U 00 8 D 9 E Κ R w Α ٧ F S 1 2 3 5

11. ACTUATOR COLOR/THUMB PRINT COLOR

O N/A - No Ac H Grey/Black Y White/Black	tuator C S	Black/Black Red/Black	
--	-----------------------------	--------------------------	--

12. ACTUATOR LENS OR BODY LEGENDS 2

_	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						
11	ON OFF	12 OFF 1	1 3 O	14 O			
15	00	16 0 0	17 O I	18 I O			
	F N F	N F					
For	For additional legend options & codes, visit us at www.carlingtech.com						

13. ACTUATOR LENS OR BODY LEGENDS

0 1 2 3 4	No legend (used w Orientation 1 Orientation 2 Orientation 3 Orientation 4	ith codes	11-18 in sele	ection 1	2)	
		1	2	3	4	

16. ACTUATOR LENS LEGEND

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

Consult factory to verify horsepower rating for your particular

Custom colors are available. Consult factory.
White imprinting is standard on black actuators.
Black imprinting is standard on white, red and gray actuators.
Custom colors are available, consult factory.
Additional ratings available. See V-Series Switch Accessories page.
Legends available for lighted oval lens version only

Ordering Scheme contura X, XI & XII

Sample Part Number 10 Selection

1. SERIES

V-Series

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 Terminals 7, 8, 9 & 10 for lamp circuit only. 8 - - 7 1 - - 4 1- - 4 2 - - 5 2 - - 5 3 - - 6 3 - - 6 10--9 Connected Terminals SP DP 2 & 3,5 8
1 A ON
2 B ON
3 C ON
5 F ON
7 K ON
6 J ON
5 PECIAL CIRCUITS
H* 2 & 3,5 8
6* 2 & 3,5 8
6* 2 & 3,5 8
8* 2 & 3,5 8
8* (2 & 3,5 8
8* (2 & 3,5 8
8* (2 & 3,5 8 5 & 6 4&5 2 & 3, 5 & 4 x 3, 5 6 2 3 2 4 8 3 2 2 8 3 5 8

*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 15A 24V 20A 18V 20A 14V, 10A 14VT (circuit 1, 4, A & D only) 10A 14V, 6A 14VT (circuit G only) .4VA/20A 12V .4VA/15A 24V

4. TERMINATION / BASE STYLE

8 term	<u> 10 Term</u>	<u>Termination</u>	Jumper			
1	2	.250 TAB (QC) no barriers	No ·			
Α	В	.250 TAB (QC) with barriers	No			
J	K	.250 TAB (QC) no barriers	Yes T2 to 5			
3	4	Solder Lug nó barriers	No			
С	D	Solder Lug	No			
5	6	Wire Leads no barriers	No			
E	F	Wire Leads	No			
Note: Codes J & K for circuits H, G & M. Do not use silicone based						
1						

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

Ι,	annly to	LED lamps	only		•
	Sealed	Unsealed	<u>Lamps</u>	Illumination Type	Lamp wired to Terminal
	<u>Sealed</u> S	0	NONE		=
١.	Α	1	1	INDEPENDENT	8 (+) 7 (-)
	В	2	1	DOWN	8 (+) 7 (-) 3 (+) 7 (-)
	С	3	2	UP	3 (+) 7 (-)
	D	4	1	DOWN	3 (+) 7 (-)
			2	DOWN	1 (+) 7 (-)
	E	5	1	UP	1(+),7(-),
			2	UP	3 (+) 7 (-)
	F	6	1	INDEPENDENT	8 (+) 7 (-) 3 (+) 6 (-)
		_	2 1	UP	3 (+) 6 (-)
	G	7	1	INDEPENDENT	8 (+) 7 (-) 3 (+) 7 (-)
١.		_	2 2	UP	3 (+) 7 (-)
	H	Z	2	INDEPENDENT	8 (+) 7 (-)
Г	U	Υ	I	INDEPENDENT	8 (+) 7 (-)
L.		OLE CIMITOL	2	INDEPENDENT	10 (+) 9 (-)
		OLE SWITCH	IES OINLY	DOM/NI	2(1)2()
ľ	J	8	ı	DOWN INDEPENDENT	3 (+) 8 (-) 6 (+) 7 (-)
L	K	w	2	INDEPENDENT	8 (+) 7 (-)
Г	ĸ	VV	1	INDEPENDENT	6 (+) 7 (-)
L	DOI IDI E	POLE SWITC	TIES ONI A	INDEPENDENT	0 (+) / (-)
	L	9	I I I	DOWN	3 (+) 6 (-)
	M	Ř	i	UP	
	N	Ť	i	DOWN	3 (+) 6 (-) 3 (+) 6 (-)
Г	••	•	2	DOWN	i (+)' 4 (-)'
П	P	V	ī	UP	i \ + \ 4 \ - \
Г	•	•	ż	LIP	3(+) 6(-)

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

Selection 6: above terminals 1 & 4; Selection 7: above terminals 3 & 6								
No lamp Neon	0	2 250VAC						
Incandescent		5 6V	6 12V	7 18V 8 24V				
LED*	Red	Amber	Green	superbright Red				
2VDC 6VDC	A B	L M	F G	R S				
12VDC	č	Ň	Й.	Ĭ				
	24VDC D P J V *Consult factory for "daylight bright" LED. Typical current draw for LED is 20ma							

8. FLUSH BRACKET COLOR, PANEL SEAL

X & XI with Flush Bracket X, XI, XII with Raised Bracket							
# of gaskets	0	1	2	0	1		
Black	В	С	D	1	4		
White	W	Ÿ	Ž	2	5		
Gray	G	Н	J	3	6		

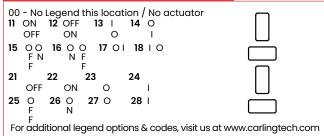
9. ACTUATOR

10. LENS – ABOVE LAMP #1 TERMINALS 1.4 11. LENS – ABOVE LAMP #2 TERMINALS 3.6

					-11111	ITALO		
0 - No Actuator Z - No Lens								
Clear	White	Amber	Green	Red	Blue	Lens Style		
3	8	D	J	Р	V	Bar '		
4	9	E	K	R	W	One piece Square		
5	Α	F	L	S	Υ	Two piece Square*		
						(With clear top protective lens)		
2	7	С	Н	N	U	Two piece Square*		
						(With smoke top protective lens)		
1	6	В	G	М	Т	Two piece Square*		
						(With white top protective lens)		

All bottom lenses are molded of opaque material. Consult factory for other lens colors. Lens color for LEDs must be clear, white, or match color of LED. Green or blue lenses are not recommended with Neon lamps.

12. ACTUATOR LENS OR BODY LEGENDS



13. ACTUATOR LENS OR BODY LEGENDS (3)

16. ACTUATOR LENS LEGEND

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

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

- Custom colors are available. Consult factory.

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

 With 2 square lenses, use selection 12 for lens above lamp 1, & selection 14 for lens above lamp 2.

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

 Not available with Contura XI rockers.

Ordering Scheme contura X locking

Sample Part Number Selection

1. SERIES

V-Series

2. CIRCUIT

Terminal Connections as viewed () - momentary form 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 Terminals 7, 8, 9 & 10 for lamp circuit only. 2 - - 5 3 - - 6 3 - - 6 10--9 Connected Terminals NONE 1 & 2, 4 & 5 OFF 2 & 3, 5 & 6 ON ON ON DP NONE OFF Ň NONE ON SPECIAL CIRCUITS

#* 2 & 3 , 5 & 6

\$* 2 & 3 , 5 & 6

\$* 5 & 6 2 & 3, 5 & 4 2 & 3 2 & 3 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

3. RATING 4

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

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

4. TERMINATION / BASE STYLE

8 term 1 A J 3 C	10 Term 2 B K 4 D	Solder Lug nó barriers Solder Lug	Jumper No No Yes T2 to 5 No 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.

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 Illumination Type Lamp wired to Ter-Sealed <u>Unsealed</u> Lamps minals NONE 2 INDEPENDENT DOUBLE POLE SWITCHES ONLY

M R 1

6. LOCKS

Lock above terminals 1 & 4 end of switch.

Notes: Consult factory to verify horsepower rating for your particular

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.

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

No lamp	0	als 1 & 4; Sel	ection 7: abov	e terminals 3	8&6
Neon Incandesce		5 6V	6 12V	7 18V	8 24V
LED*	nt 43V	5 6 V	superbright		
LED.	Dod	Amber	Green	Red	L
	Red	Amber	Green	Rea	
2VDC	Α	L	F	R	
6VDC	В	М	G	S	
101/00	_	NI .	ш	т	
12VDC	С	IN	П	1	
24VDC	Ď	P	្សី t" LED options	v	

8. FLUSH BRACKET COLOR, PANEL SEAL

9. HARD SURFACE ACTUATOR

Contura X	Black 1	Gray 2	Red 3	White 4		
Actuator orientation over terminals: 3,6 1,4						

10. LENS - ABOVE LAMP #2 TERMINALS 5

Z - No	Lens					
Clear		Amber	Green	Red	Blue	Lens Style
3	8	D	J	Р	V	Bar
4	9	E	K	R	w	One piece Square
5	Α	F	L	S	Υ	Two piece Square*
						(with clear top protective lens)
2	7	С	Н	N	U	Two piece Square*
						(with smoke top protective lens)
1	6	В	G	М	T	Two piece Square*
						(with white top protective lens)

All bottom lenses are molded of opaque material. Consult factory for other lens colors. Lens color for LEDs must be clear, white, or match color of LED. Green or blue lenses are not recommended with Neon lamps.

12. ACTUATOR LOCK FUNCTION 3

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

13. ACTUATOR LENS OR BODY LEGENDS 2

00 - No 21	Legend 22	23	24	
OFF	ON	0	1	
25 O	26 O N	27 O	28	
For additional legend options & codes, visit us at www.carlingtech.com				

14. LEGEND ORIENTATION 3

	LEGEND GIGIENT	Allon			
0 1 2 3 4	No legend (used w Orientation 1 Orientation 2 Orientation 3 Orientation 4	ith codes 11-18	in selection 12	2)	
		1	2	3	4

3 (+) 6 (-)

Ordering Scheme

Sample Part Number Selection

1. SERIES

V-Series

2. CIRCUIT

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 Terminals 7, 8, 9 & 10 for lamp circuit only. 8 - - 7 1 - - 4 1- -4 2 - - 5 2 - - 5 3 - - 6 3 - - 6 10-Position: SP DP 1 A 2 B 3 C 4 D 5 F 6 J 7 K 2 & 3, 5 & 6 ON Connected Terminals NONE 1 & 2, 4 & 5 OFF NONE NONE ON ON OFF OFF OFF SPECIAL CIRCUITS 2 & 3 2 & 3, 5 & 4 2 & 3 2 & 3 2 & 3 2 & 3, 5 & 6 M* R* E* (2 & 3, 5 & 6) (2 & 3, 5 & 6) OFF 2 & 1 5 & 6 s* 2 & 3, 5 & 6 2 & 3 1&2

Terminal Connections as viewed () - momentary

*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

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

4. TERMINATION / BASE STYLE

8 Term 1 A J 3 C 5	10 Term 2 B K 4 D	Termination 250 TAB (QC) no barriers 250 TAB (QC) with barriers 250 TAB (QC) no barriers Solder Lug no barriers Solder Lug Wire Leads no barriers	Jumper No No Yes T2 to 5 No No No
Ĕ	Ĕ	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	rep lamps o	111y	
_	<u>Lamps</u> NONE	Illumination Type	<u>Lamp wired to Terminals</u>
S	NONE	_	- () ()
Α	1	INDEPENDENT	8 (+) 7 (-)
В	1	DOWN	3 (+) 7 (-)
B C	2	UP	3 (+) 7 (-) 3 (+) 7 (-)
D	1	DOWN	3 (+) 7 (-)
	2	DOWN	1 (+) 7 (-)
E	ī	UP	i (+1 7 (-1)
_	2	ÜP	3 (+) 7 (-)
F	ī	INDEPENDENT	
•	2	UP	8 (+) 7 (-) 3 (+) 6 (-)
G	ī	INDEPENDENT	8 (+) 7 (-)
_	2	UP	3 (+) 7 (-)
Н	$\bar{2}$	INDEPENDENT	8 (+) 7 (-)
SINGLE P	OLE SWITCHE	S ONLY	- () ()
J	1	DOWN	3 (+) 8 (-)
	2	INDEPENDENT	6 (+) 7 (-)
K	1	INDEPENDENT	8 (+) 7 (-)
	2	INDEPENDENT	6 (+) 7 (-)
DOUBLE I	POLE SWITCH		- () · ()
L	1	DOWN	3 (+) 6 (-)
м	1	UP	3 (+) 6 (-)
N	i	DOWN	3 (+) 6 (-)
	2	DOWN	1 (+) 4 (-)
Р	ī	UP	i (+) 4 (-)
-	2	ÜP	3 (+) 6 (-)
U	1	INDEPENDENT	8 (+) 7 (-)
-	2	INDEPENDENT	10 (+) 9 (-)

6 & 7. LAMP

	No lamp Neon Incandescent 24V	0 1 125VAC 4 3V	2 250VAC 5 6V	6 12V	7 18V	8
١	LED*			superbright	superbrigh	nt
١		Red	Amber	Green	Red	
١	2VDC	Α	L	F	R	
١	6VDC	В	M	Ġ	S	
١	12VDC	č	Ň	Ĭ.	Ť	
١	24VDC	Ď	P	ï	v	
	* Consult factory	for "dayligh	nt bright" LE	D options. Ty	/pical curre	ent

8. BRACKET COLOR & PANEL SEAL

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

9. ACTUATOR STYLE

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

10. LENS COLOR / STYLE

TO. LL.	1000		J LL			
0 - No A	Actuato	r	Z - No	Lens		
Clear	White	Amber	Green	Red	Blue	1
1	6	В	G	М	T	CID
2	7	С	Н	N	U	(II)
3	8	D	J	Р	٧	CT
4	9	E	K	R	W	(T)
5	Α	F	L	S	Υ	
5	Α	N/A	N/A	N/A	N/A	Laser-Etched Actuator
Only Ler	s color	for LEDs r	must be			, or match color of LED.
Green o	r blue le	nege are	not rec	omm	andac	with Neon Jamns

11. ACTUATOR COLOR 1

12. ACTUATOR LENS OR BODY LEGEND 2



12. ACTUATOR LENS OR BODY LEGEND

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

12. ACTUATOR LENS OR BODY LEGEND

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

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

Custom colors are available. Consult factory.

White imprinting is standard on black actuators; Black imprinting is standard on white, red and gray actuators.

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

🕅 Configure Complete Part Number 🔻 🚳 Browse Standard Parts 🤊

Ordering Scheme

Sample Part Number 2 3 6 8 10 11 Selection

1. SERIES

V-Series

2. CIRCUIT

8 - - 7 1 - - 4 2 - - 5 8 - - 7 1 - - 4 2 - - 5 3 - - 6 3 - - 6 10 -- 9 Position: 2 & 3, 5 & 6 Connected Terminals 1 & 2, 4 & 5 SP DP NONE (ON) NONE OFF 4 D ON NONE ON 6 7 J K ON OFF ON ON OFF (ON) 8 (ON) OFF (ON) 9 NONE SPECIAL CIRCUITS 2 & 3 H* 2 & 3, 5 & 4 5 & 4 2 & 3, 5 & 6 (2 & 3, 5 & 6) G* 2 & 3 2 & 3 OFF М* OFF 2 & 3 (2 & 3, 5 & 6) 2 & 1 5 & 6 5 & 1 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 for circuit E are

provided by customer. Circuit E may be used for SP OFF-ON-ON circuit.

3. RATING ³

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

4. TERMINATION / BASE STYLE

8 Term	<u>10 Term</u>	Termination		<u>Jumper</u>
1	2	.250 TAB (QC) no barriers	No .
Α	В	.250 TAB (QC) with barriers	No
J	K	.250 TAB (QC	no barriers	Yes T2 to 5

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

appl	apply to LED lamps only					
S C H	Lamps NONE 2	Illumination Type UP INDEPENDENT	Lamp wired to Terminals - 3 (+) 7 (-) 8 (+) 7 (-)			
DOU! M	= BLE POLE S' 1	WITCHES ONLY UP	3 (+) 6 (-)			

5. LOCK OPTION

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.

7. LAMP

No lamp Neon Incandescent	0 1 125VAC 4 3V	2 250VAC 5 6V	6 12V	7 18V 8 24V
LED*		• • •		superbright
	Red	Amber	Green	Red
2VDC	Α	L	F	R
6VDC	В	М	G	S
12VDC	С	N	Н	T
24VDC	D	P	J	V
* Consult factory	for "dayligh	nt bright" LE	D options. Ty	pical current
draw for LED is 2	0ma.	•		•

8. BRACKET COLOR & PANEL SEAL

White W Y Z	△ W V 7	Color Black Gray White	No Gasket B G W	1 Gasket C H	2 Gasket D J
-------------	---------	---------------------------------	--------------------------	--------------------	--------------------

9. ACTUATOR COLOR / STYLE

FC Black - Standard Rocker FD Black - Laser Etched FS Red - Standard Rocker FT Red - Laser Etched	
---	--

10. LENS COLOR / STYLE

Z - No Clear 1 3 5	 Amber B D N/A	G	M P		Laser-Etched Only
	LEDs mu	st be cle	ear, wh	iite, or	match color of LED. ed with Neon lamps.

11. ACTUATOR LOCK COLOR / FUNCTION

LOCK IN POSITION							
Lock Color	UP	DOWN	UP & DOWN	CENTER			
Match Actuator	Α	Н	R	1			
Black	В	J	S	2			
White	С	K	T	3			
Red	D	L	V	4			
Orange	Ε	М	W	5			
Gray	F	G	N	6			
•							

12. ACTUATOR LENS OR BODY LEGENDS 2

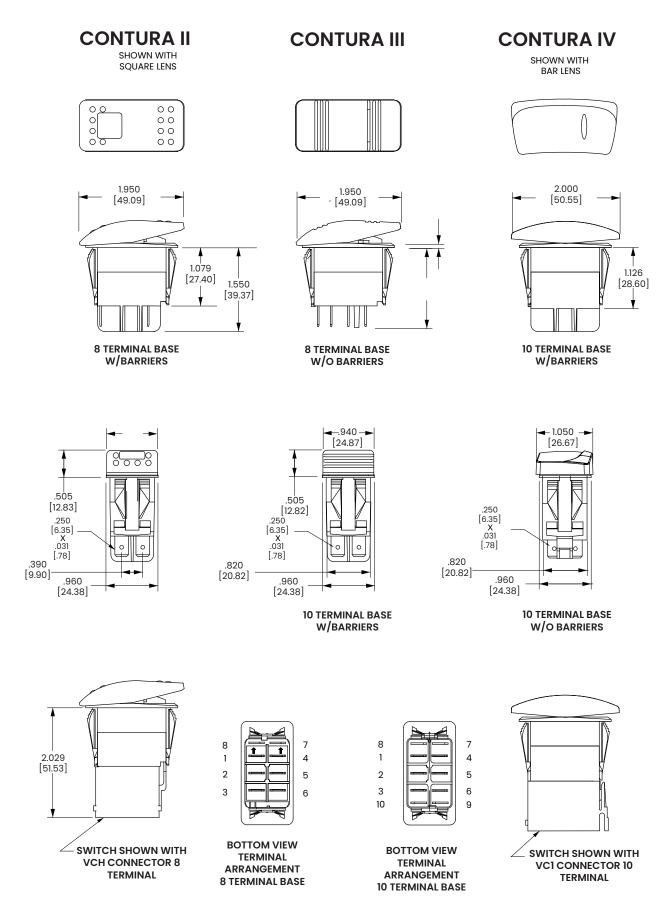
	- No Legend 22 OFF ON	23	24	
25	O 26 O F N F	27 O	28	

LECENID ODIENTATION

10.	LEGEND OKIEN I	ATION				
0 1 2 3 4	No legend Orientation 1 Orientation 2 Orientation 3 Orientation 4	1	2	3	4	

Dimensional Specs

inches [millimeters]

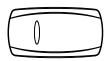


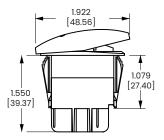
Dimensional Specs

inches [millimeters]

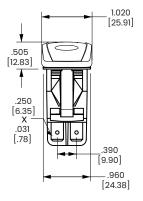


SHOWN WITH

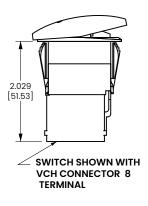




8 TERMINAL BASE W/BARRIERS

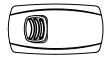


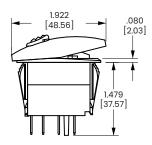
8 TERMINAL BASE W/BARRIERS



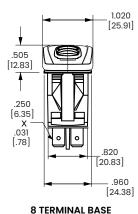
CONTURA V

SHOWN WITH LOW PROFILE LOCK

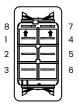




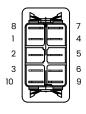
8 TERMINAL BASE W/O BARRIERS



W/O BARRIERS



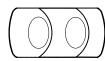
BOTTOM VIEW TERMINAL ARRANGEMENT 8 TERMINAL BASE

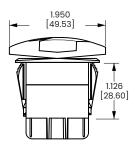


BOTTOM VIEW TERMINAL ARRANGEMENT 10 TERMINAL BASE

CONTURA VI

SHOWN WITH OVAL

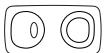




10 TERMINAL BASE W/BARRIER AND LAMP TERMINAL

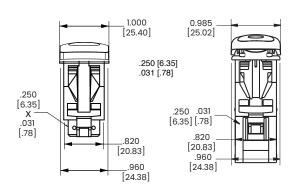
CONTURA VII

SHOWN WITH LARGE LENS AND BAR LENS





10 TERMINAL BASE W/O BARRIERS



10 TERMINAL BASE W/O BARRIERS

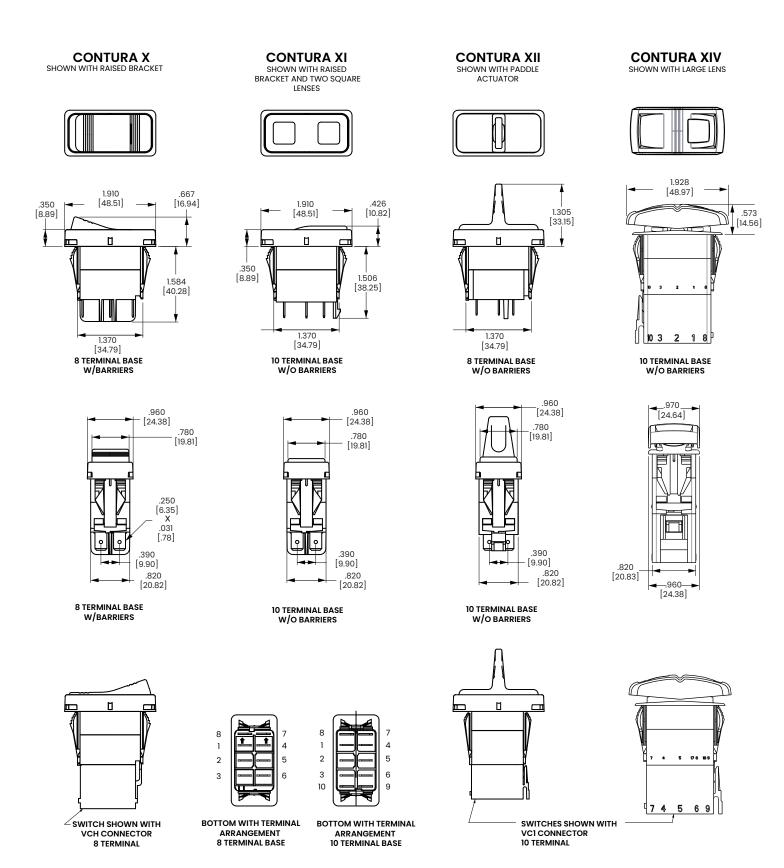
10 TERMINAL BASE W/O BARRIERS





Dimensional Specs

inches [millimeters]



Circuit Diagrams:

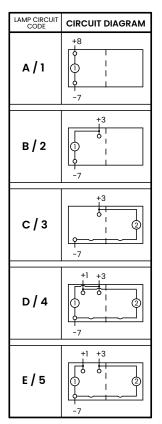
CIRCUIT CODE	CIRCUIT DIAGRAM
1	3
2	3
3	3
4	
5	
6	
7	
8	

CIRCUIT CODE	CIRCUIT DIAGRAM
Α	3 6
В	3 6
С	3 6
D	1 3 4 6
E	1 3 4 6
F	2 5
G	3 6
н	3 4

CIRCUIT CODE	CIRCUIT DIAGRAM
J	13 4 6
К	1 3 4 6 0 0 0 0 1 1 2 0 0 2 5
L	2 5
М	3 6
R	2 5
S	1 3 6

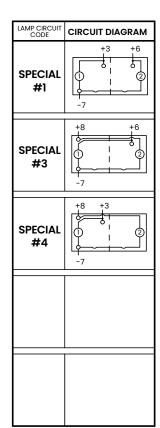
	SYMBOL LEGEND								
SYM.	DEFINITION								
0	DESIGNATES TERMINALS AND CONTACTS								
~	DESIGNATES MAINTAINED CIRCUITS								
	DESIGNATES OTHER POSITION								
○▼ ○	DESIGNATES MOMENTARY CIRCUITS								
	DESIGNATES TWO POSITION CONNECTION								
	DESIGNATES EXTERNAL JUMPER PROVIDED BY CUSTOMER								

Lamp Circuit Diagrams:

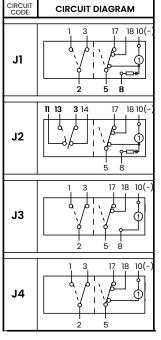


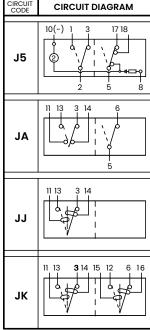
LAMP CIRCUIT CODE	CIRCUIT DIAGRAM
F/6	+8 +3 -6
G/7	+8 +3
H/Z	+8
1/8	-8 +3 +6 0 0 0 0 0 0 0 0 0 0
κ/w	+8 +6

LAMP CIRCUIT CODE	CIRCUIT DIAGRAM
г/9	+3 -6
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:





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				
0	DESIGNATES LAMP LOCATION				

Stand-Alone Components

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

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

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

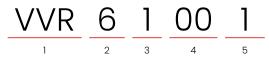
Contura VI Actuator with lenses and inserts only: VT with code selections 9-16

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



1. CONTURA X & XI ACTUATOR SEPARATELY

VVR

2. ACTUATOR STYLE & COLOR

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

3. LENS OPENING FOR 1

1	One bar lens		
2	Two bar lenses	5 square lens on top/	
3	One square lens	þar lens on bottom	
4	Two sauare lens	(Contura X only)	

4. ACTUATOR LENS OR BODY LEGEND



5. LEGEND ORIENTATION 1

2 Or	o legend rientation 1 rientation 2 rientation 3				
4 Or	rientation 4	1	2	3	4

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



VVT

2 COLOR

1 Clear 2 Smoke 3 White

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.

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

Contura XII actuators without lenses separately



1 CONTURA XII ACTUATOR SEPARATELY

VVP

2. ACTUATOR STYLE & COLOR

J	Black	K	Gray	N White	М	Red		

3,4 LENS OPENING FOR 1

7	No lens	1	Bar lens	2	Sauare lens	
	No iens		Buriens		Sauare iens	

5, 7 LENS OR BODY LEGEND 2



6 LEGEND ORIENTATION 3

O No legend Orientation 1 Orientation 2	

Contura X, XI & XII actuator lens assembly separately



1 CONTURA X, XI & XII LENS SEPARATELY

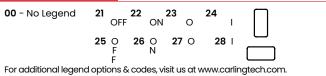
2 LENS STYLE 3

- One Piece Square lens Bottom of Two-Piece Square lens ⁵

3 TRANSLUCENT LENS COLOR

1 Clear 2 White 3 Amber 4 Green 4 5 Red 6 Blue 4

4 LENS OR BODY LEGEND 2



5 LEGEND ORIENTATION 3

No legend Orientation 1 Orientation 2 Orientation 3

Orientation 4

- **■**D 1
- ID ID

2

- <u>_</u> 3
- 4

Accessories

Easily integrate Contura products into your system, with Contura Accessories

Contura Connectors

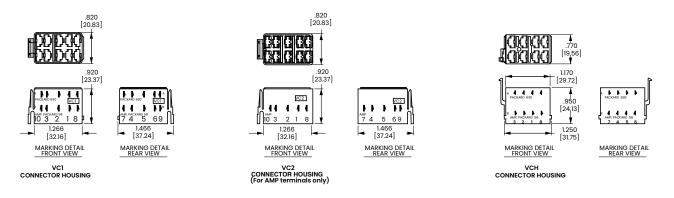
Q.C. SELECTION GUIDE							
	PART	NO	W RA				
COMPANY SERIES	PLAIN BRASS	TIN PLATED BRASS	AWG	MM ² (REF)	ORIEN- TATION		
	02965580		12	3.0			
	02965471	12010601	(2)16-14	(2)1.0-2.0	1		
PACKARD 58 SERIES	02965470		16-14	1.0-2.0	В		
30 SERIES	02965469	06288318	20-18	.58			
		12084590	105.0				
		12052224	123.0				
PACKARD		12015870	16-14	1.0-2.0	1		
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			
AMP 250 SERIES	00255-1	00255-2	(2) 16	(2) 1.3			
FASTIN-FASTON	42100-1	42100-2	18-14	.8-2	В		
	60295-1	60295-2	22-18	.39			

TANG TANG SYMBOL = SHOWS ORIENTATION OF TANG IN SLOT SYMBOL

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

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

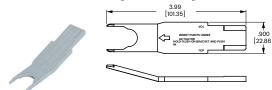
Delphi Packard is a registered trademark of Delphi-Packard Electrical Systems Warr



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

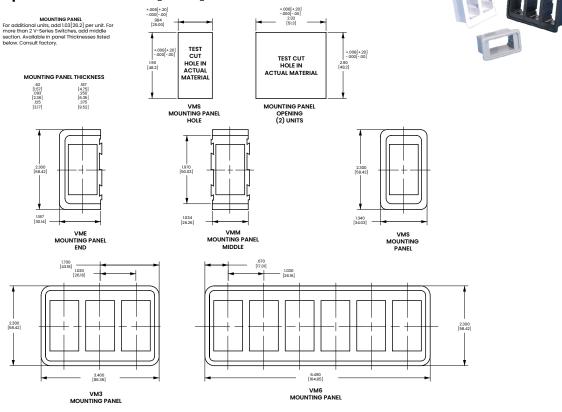
NOTES

Consult factory to determine availability for individual circuits and their HP rating. Not available with Contura 7 or 14 rocker styles.

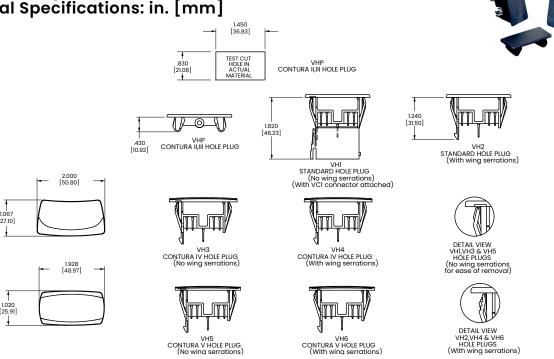
Rating L available with circuits 1, 4, A & D only.

Accessories

Contura Mounting Panels Dimensional Specifications: in. [mm]



Contura Hole Plug Dimensional Specifications: in. [mm]



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