



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

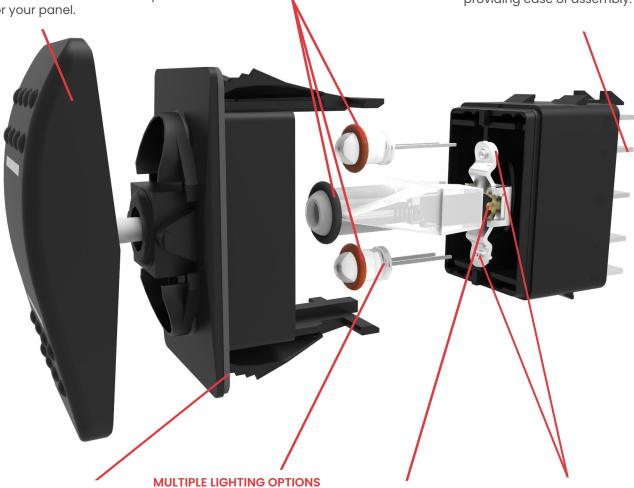
Panel redesign is a snap with our wide range of rocker styles. Achieve maximum design variety with minimum inventory. Simply swap rockers to create an entirely new look for your panel.

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 IV

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



Contura V

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



Contura X

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



Contura XI

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



Contura XII

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



Contura XIV

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



Illuminated Indicators & Accessories

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

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

•	
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 Actuators	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 Actuators	Nylon 66 Reinforced rated to 105°C
Lens	Polycarbonate rated at 100°C
Contura XIV Actuator	Polycarbonate lens/sub-rocker with ABS shell

Actuator Travel (Angular Displacement)

2 position	18°
3 positions	9° from center

Environmental

Sealing	IP66/68, for above-panel components of actual switch only.		
Corrosion	Mixed Flowing Gas (MFG) Class III 3 year accelerated exposure per ASTM B-827, B-845 Silver and gold contacts		
Operating Temp	-40°C to +85°C		
Vibration 1	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.		
Vibration 2	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.		
Shock	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.		
Dust	Mil STD 810, Method 510.2 Air Velocity 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		
Moisture Resistance	Per Mil-Std 202F, Method 106F, Test Criteria - pre and post test contact resistance		
Ignition Protection	All Contura switches with sealed construction meet the requirements of UL1500/ISO8846 for ignition protection, in addition to conformance with EC directive 94/25/EC for marine products.		

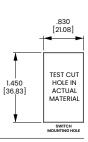
Mounting Specifications

Panel Thickness Range

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

(.76 to 2.77mm & 3.73 to 3.98mm) Recommended: No gasket with panel thickness

of .032, .062, .093, .125,.187 or .250



Ordering Scheme contura || & ||

3

4

5

2

Sample Part Number

6

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 Terminals 7, 8, 9 & 10 for lamp circuit only. 1- -4 1- -4 2 - - 5 2 - - 5 3 - - 6 3 - - 6 10 - 92 & 3, 5 & 6 Connected Terminals ON NONE 3 1 & 2, 4 & 5 OFF OFF Position: SP DP (ON) 2345678 NONE NONE (OFF) ON ON (ON) F NONE OFF ON OFF (ON) SPECIAL CIRCUITS 2 & 3 2 & 3, 5 & 4 5 & 4 G* S* 2 & 3, 5 & 6 2 & 3, 5 & 6 (2 & 3, 5 & 6) 2 & 3 2 & 3 OFF 1 & 2 M* R* E* 2 & 3 OFF 2 & 3 5 & 3 (2 & 3, 5 & 6) 5 & 6 2 & 1 5 & 1 Jumper between terminals 2 & 5 for circuits H,G,M,R & S are specified in selec-

tion 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 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>	<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	4	Solder Lug no barriers	No	
С	D	Solder Lug	No	
5	6	Wire Leads no barriers	No	
E	F	Wire Leads	No	
N				

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

Sealed	Lamps	Illumination Type	Lamp wired to Terminals
S	NONE	-	- 8 (+) 7 (-)
A	;	INDEPENDENT	~ > 4 . > 4
В	ı	DOWN UP	3 (+) 7 (-) 3 (+) 7 (-)
Č	2		3 (+) 7 (-)
D	ı	DOWN	3 (+) / (-)
_	2	DOWN	! } ! } <u>*</u> } * } * } * } * } * }
E	ı	UP	1 (+/ / //-/
_	2	UP	3 (+) 7 (-)
F	I	INDEPENDENT	8 (+) 7 (-) 3 (+) 6 (-)
_	2	UP	
G	I	INDEPENDENT	8 (+) 7 (-)
	2 2	UP	3 (+) 7 (-) 8 (+) 7 (-)
H	2	INDEPENDENT	
U	I	INDEPENDENT	8 (+) 7 (-)
CINIOLE D	2	INDEPENDENT	10 (+) 9 (-)
	OLE SWITCH		0(.)0()
J	I	DOWN	3 (+) 8 (-)
17	2	INDEPENDENT	6 (+) 7 (-)
K	ı	INDEPENDENT	8 (+) 7 (-)
DOUBLE	Z	INDEPENDENT	6 (+) 7 (-)
	POLE SWITC		$2(1) \circ (1)$
L	;	DOWN	3 (+) 6 (-)
M	!	UP DOMAN	3 (+) 6 (-)
N	Ī	DOWN	3 (+) 6 (-)
_	2	DOWN	! (+) 4 (-)
P	ı	UP	1574654
	2	UP	3 (+) 6 (-)

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

11

12

13

14

Selection 6: above terminals 1 & 4; Selection 7: above terminals 3 & 6 0 1 125VAC 2 250VAC 4 3V 6 12V No lamp Neon 8 24V Incandescent 43V IFD* superbright superbright **Red** Red 2VDC A R 24VDC D * Consult factory for "daylight bright" LED options. Typical current draw for LED is 20ma.

8. FLUSH BRACKET COLOR, PANEL SEAL

Black No Seal One Seal

9. ACTUATOR

No Actuator Contura II Contura III Actuator thick end over terminals:

10. LENS 1

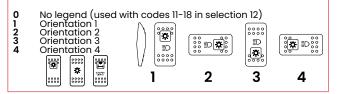
					Blue	0
1	6	В	G	М	T	
2	7	С	Н	N	U	
3	8	D	J	Р	V	
Square	lens op	tions o	nly ava	ilable	for Contura II.	
4	9 ່	E	ĸ	R	W	
5	Α	F	L	S	Υ	
Lens col Green o	or for L r blue l	EDs mu enses d	ist be cl are not i	ear, w recon	vhite, or match o nmended with N	olor of LED. eon lamps.
	Clear 1 2 3 Square 4 5	Clear White 1 6 2 7 3 8 Square lens op 4 9 5 A	Clear White Ambe 1	Clear White Amber Green 1 6 B G 2 7 C H 3 8 D J Square lens options only ava 4 9 E K 5 A F L	Clear White Amber Green Red 1 6 B G M 2 7 C H N 3 8 D J P Square lens options only available 4 9 E K R 5 A F L S	Clear

11. ACTUATOR COLOR AND TEXTURE 1

12 ACTUATOR LENG OF BODY LEGENDS 2

-12	12. ACTOATOR LENS OR BODT LEGENDS -						
11	ON OFF	12 OFF ON	13 O	14 O	Π		
15	0 0 F N F	16 O O N F F	17 O I	18	° 🗀		
	For addit	ional legen	d options	& code	es, visit us at ww	w.carlingtech.com	1

13. LEGENDS ORIENTATION



14. ACTUATOR LENS LEGENDS

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

4. TERMINATION / BASE STYLE

8 term	10 Term	Termination .	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
	-1 1016		and the second section is a second

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

<u>Sealed</u>	<u>Lamps</u>	Illumination Type	Lamp wired to Terminals
S	NONE	_	- <u></u>
С	2	UP	3 (+) 7 (-)
Н	2	INDEPENDENT	8 (+) 7 (-)
DOUBLE	POLE SWIT	CHES ONLY	
М	1	UP	3 (+) 6 (-)
	2	DOWN	1 (`+)´ 4 (`-)´
Р	1	UP	1 (+) 4 (-)
	2	ÚP	3 (+) 6 (-)
I			

6. LOCK

Lock above terminals 1 & 4 end of switch

7. LAMP

Lamp above terminals 3 & 6 end of switch No lamp 0 0 1 125VAC 2 250VAC 4 3V 6 12V Neon Incandescent LED* superbright **Red** superbright Green Amber 2VDC * Consult factory for "daylight bright" LED options. Typical current draw for LED is 20ma.

8. FLUSH BRACKET COLOR, PANEL SEAL 1

Black No Seal One Seal

9. HARD SURFACE ACTUATOR 1

Black Red Contura II C Contura III Actuator orientation above terminals:

10. LENS

Z - No Clear - No Lens Elear White Amber Green Red Blue D Р

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

11. ACTUATOR LOCK FUNCTION AND COLOR 1

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

12. ACTUATOR LENS OR BODY LEGENDS 2

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

13. LEGEND ORIENTATION

No legend (used with codes 21-28 in selection 12)
Orientation 1
Orientation 2
Orientation 2 **■** Orientation 3 Orientation 4

Notes: Consult factory to verify horsepower rating for your particular

- cuit choice.

 Custom colors are available. Consult factory.

 White imprinting is standard on black actuators; Black imprinting is standard on black 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 13

1. SERIES

Selection

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 2--5 1- -4 2 - - 5 3 - - 6 3 - - 6 10- - 9 1 2 3,5 6 6 Connected Terminals 1 & 2, 4 & 5 ON NONE OFF (ON) NONE OFF, SP 1 2 3 4 5 6 7 8 DP A CDF NONE ON ON ON NONE OFF OFF ÖFF SPECIAL CIRCUITS 2 & 3, 5 & 4 H* G* S* M* R* 2 & 3, 5 & 6 2 & 3, 5 & 6 (2 & 3, 5 & 6) (2 & 3, 5 & 6) 2&3 2&3 2&3 2&3 5 & 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 4

	.4VA @ 28VDC Resistive
	.4VA (a) 26VDC RESISTIVE
В	15A 24V
С	20A 18V
D	20A 12V
E	20A 14V, 10A 14VT (circuit 1, 4 , A & D only)
F	10Δ 14V 6Δ 14VT (circuit G only)

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	4	Solder Lug no barriers	No
С	D	Solder Luğ	No
5	6	Wire Leads no barriers	No
E	F	Wire Leads	No
Note: Coc	les J & K for ci	rcuits H, G & M. Do not use silicone	based
lubricants	s to reduce te	minal insertion forces during conr	nector assembly, as it

5. ILLUMINATION & SWITCH SEALING

is detrimental to function and performance

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

<u>Sealed</u>	<u>Lamps</u>	Illumination Type	Lamp wired to Terminals
S	NONE	<u> </u>	-
Ā	1	INDEPENDENT	8 (+) 7 (-)
B	i	DOWN	8 (+) 7 (-) 3 (+) 7 (-) 3 (+) 7 (-) 3 (+) 7 (-)
Č	ż	UP	3 } ' { ' ' } - {
Ď	1	DOWN	3 } \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
U	2	DOWN	1777 / C1
E	1	UP	; } <u>`</u> { ' , } <u>_</u> {
_	2	UP	3(+)7(-)
F	1	INDEPENDENT	8 (+) 7 (-)
r	2	UP	3 (+) 6 (-)
_	2	INDEPENDENT	3 (+) 6 (-) 8 (+) 7 (-) 3 (+) 7 (-)
G	1	UP	3 \ \ \ 7 \ - \
	2 2		8 (+) 7 (-)
H	2	INDEPENDENT	
U	ï	INDEPENDENT	
CINIOLE	2 2015 CM/ITO	INDEPENDENT	10 (+) 9 (-)
	POLE SWITC		0(.)0()
J	ı	DOWN	3 (+) 8 (-)
.,	2	INDEPENDENT	6 (+) 7 (-)
K	I	INDEPENDENT	8 (+) 7 (-)
	2	INDEPENDENT	6 (+) 7 (–)
DOORLE	POLE SWITC		0(1)0()
L.	!	DOWN	3 (+) 6 (-)
М	1	UP	3 (+) 6 (-) 3 (+) 6 (-)
N	Ţ	DOWN	3 (+) 6 (-)
	2	DOWN	1(+)4(-)
P	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 1 125VAC 2 250VAC 4 3V 6 12V Neon **8** 24V Incandescent 43V superbright superbright Red Amber Green Red 2VDC R 12VDC Ν 24VDC D * Consult factory for "daylight bright" LED options. Typical current draw for LED is 20ma.

8. FLUSH BRACKET COLOR, PANEL SEAL

9. ACTUATOR

E Contura IV, left orientation T Contura IV, left orientation, laser etched F Contura IV, right orientation R Contura IV, right orientation, laser etched Actuator orientation over terminals:	1,4 D 3,6
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10. LENS

	Actuato White		Z - No Green		Blue	â
1	6	В	G	М	T	66
2	7	С	Н	N	U	ññ
3	8	D	J	Р	V	60
4	9	E	K	R	W	
5	Α	F	L	S	Υ	ee E F
Lone o	olor for I	EDc mu	ct bo cl	loar w	hite or m	natch color of LED. with Neon lamps.

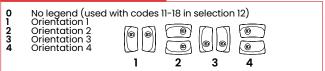
11. ACTUATOR COLOR 1, 5, 6

III. ACTOR		OFOIL F			
No Actuator Nickel	0 D	Black Pewter	C E	Red	s

12. ACTUATOR LENS OR BODY LEGENDS 2

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	additio	nal leaend	ontions	& codes	visit us at www.carlinatech.com

13. LEGENDS ORIENTTATION



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 5
- black, nickel or pewter.

 Pewter and nickel colors only available with laser etched actuator

Ordering Scheme contura v

Sample Part Number 6 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 3 - - 6 2 - - 5 3 - - 6 10-Position: SP DP 1 A 2 B 3 C 4 D 5 F 6 J 7 K 8 L 2 & 3, 5 & 6 ON (ON) 1 & 2, 4 & 5 OFF OFF Connected Terminals NONE NONE (OFF) (ON) NONE ON, ÖFF 8 L SPECIAL CIRCUITS H* G* 2 S* 2 M* (2 R* (2 E* ÖFF 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 2 & 3 5 & 3 1 & 2 OFF

*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)

4. TERMINATION / BASE STYLE

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

			, , and negative () cymbole
apply to	o LED lamp		
<u>Séaléd</u> S	<u>Lamps</u>	Illumination Type	Lamp wired to Terminals
	NOŅĒ	_	- , , , ,
Α	1	INDEPENDENT	8 (+) 7 (-)
В	1	DOWN	3 (+) 7 (-)
С	2	UP	3 (+) 7 (-) 3 (+) 7 (-)
D	ī	DOWN	3 (+) 7 (-)
	2	DOWN	1 (`+)` 7 (`-)`
E	2 1	UP	1 (+) 7 (-)
	2	UP	3 (+) 7 (-)
F	1	INDEPENDENT	8 (+) 7 (-)
	2	UP	8 (+) 7 (-) 3 (+) 6 (-)
G	1	INDEPENDENT	8 (+) 7 (-)
-	2	UP	3 (+) 7 (-)
н	2 2	INDEPENDENT	8 (+) 7 (-)
Ü	ī	INDEPENDENT	8 (+) 7 (-)
-	ż	INDEPENDENT	10 (+) 9 (-)
SINGLE	POLE SWITC		10 (1) 0 ()
J	1	DOWN	3 (+) 8 (-)
-	ż	INDEPENDENT	6 (+) 7 (-)
К	ī	INDEPENDENT	8 (+) 7 (-)
"	່ວ	INDEPENDENT	6 (+) 7 (-)
DOUBLE	POLE SWIT	CHES ONLY	
L	1 OLL 30011	DOWN	3 (+) 6 (-)
М	i	UP	3 (+) 6 (-)
N	;	DOWN	3 (+) 6 (-)
IN	1		344444
_	2	DOWN	; } ` { ' ; } - {
P	ı	UP	517.4517.4
	2	UP	3 (+) 6 (-)

6.7. I AMP

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

* Consult factory for "daylight bright" LED options. Typical current

8. FLUSH BRACKET COLOR, PANEL SEAL 1

No Seal One Seal	Black B C	
---------------------	------------------------	--

9. ACTUATOR

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

10. LENS

0 - No Actuator Z - No Lens style & location: #1 / #2									
Clear	White	Amber	Green	Red	Blúe	,			
1	6	В	G	М	T				
2	7	С	Н	N	U				
3	8	D	J	Р	V	•			
4	9	E	K	R	W	•			
5	Α	F	L	S	Υ	••			
Lens c	Lens color for LEDs must be clear, white, or match color of LED.								
Green	or blue le	enses are	not recor	nmen	ded witl	h Neon lamps.			

11. ACTUATOR COLOR 1, 3, 5

O Black C Red D Pewter E

12. ACTUATOR LENS OR BODY LEGENDS 2,6

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

12. LEGENDS ORIENTATION

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

13. 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.

 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 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** Connected Terminals NONE NONE Position: SP 1 4 6 7 2 & 3, 5 & 6 ON ON DP OFF ON A OFF OFF OFF NONE

3. RATING 4

1 B C D E F	.4VA @ 28VDC Resistive 15A 24V 20A 18V 20A 12V 20A 14V 10A 14VT (circuit 1.4. A & Doply)
Ē	20A 14V, 10A 14VT (circuit 1, 4 , A & D only) 10A 14V, 6A 14VT (circuit G only)

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	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

UP

Lamp #1:above terminals 1 & 4 end of switch; Lamp #2 above terminals 3 & 6 end of switch. Positive (+) and negative (-) symbols apply to LED lamps only Lamp wired to Terminals Sealed S Lamps NONE Illúmination Type ПÞ INDEPENDENT DOUBLE POLE SWITCHES ONLY

3 (+) 6 (-)

6. LOCK

Lock above terminals 1 & 4 end of switch. high profile lock low profile lock

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7. LAMP

Lamp above teri No lamp Neon Incandescent	0	end of swit 2 250VAC 6 12V				
LED*	Red	Amber	superbright Green	superbright Red		
2VDC 12VDC 24VDC * Consult factory	A C	L N P	F H	R T V		
* Consult factory for "daylight bright" LED options. Typical current draw for LED is 20ma.						

8. FLUSH BRACKET COLOR, PANEL SEAL 1

No Seal	Black B		
One Seal	С		

9. HARD SURFACE ACTUATOR

CONTURA IV: Orientation Left Right	Black J N	Red L R				
			Actuator orientation over terminals:	3,6	1,4	l
CONTURA V:	Black U	Red W				
			Actuator orientation over terminals:	3,6	1,4	l

10. LENS 5

Z - No L Clear		Amber	Green	Red	Blu	е
Α	В	С	D	E	F	bar lens
G	Н	J	K	L	М	oval lens

11. ACTUATOR LOCK FUNCTION AND COLOR 1

III AGTOATOR EGORT GROTION AND GGEOR								
Lock Color Match Actuator Black White Red Safety Orange	Up A B C D E	Down H J K L	Up & Down R S T V W					
Gray '	F	G	N	6				

12. ACTUATOR LENS OR BODY LEGENDS



13. LEGENDS ORIENTTATION

10.	LECTIVES CKILIN	ITATION		
0 1 2 3 4	No legend Orientation 1 Orientation 2 Orientation 3 Orientation 4			
		•	-	-

Ordering Scheme contura X, XI & XII

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 Terminals 7, 8, 9 & 10 for lamp circuit only. 1- -4 1- -4 2 - - 5 2 - - 5 3 - - 6 3 - - 6 10--9 Position: PDP 1 AP 2 B 3 C 4 D 5 F 6 J 7 K 8 L SPECIAL O Connected Terminals NONE NONE 5&6 4&5 b L SPECIAL CIRCUITS, H* 6* 2 & 5* 2 & M* (2 & K* E* , 5 & 4 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)

4. TERMINATION / BASE STYLE

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

terminals of a or end of switch. To slave (1) and negative (1) symbols						
	LED lamps					
Sealed S	<u>Lamps</u>	Illumination Type	Lamp wired to Terminal			
	NOÑE	_	- , , , ,			
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 (+) 7 (-)			
_	2	ÜP	3 (+) 7 (-)			
F	ī	INDEPENDENT	8 (+) 7 (-)			
•	ż	UP	3 (+) 6 (-)			
G	ī	INDEPENDENT	3 (+) 7 (-) 8 (+) 7 (-) 3 (+) 6 (-) 8 (+) 7 (-) 3 (+) 7 (-) 8 (+) 7 (-)			
Ū	ż	UP	3 (+) 7 (-)			
Н	2 2	INDEPENDENT	8 (+1 7)-1			
ΰ	1	INDEPENDENT	8 (+) 7 (-)			
U	2	INDEPENDENT	10 (+) 9 (-)			
CINICIE	OLE ŚWITC		10 (1) 9 ()			
J	OLE SWITC	DOWN	3 (+) 8 (-)			
J	,		6 (+) 7 (-)			
V	2	INDEPENDENT	8 (+) 7 (-)			
K	ı	INDEPENDENT				
	2	INDEPENDENT	6 (+) 7 (–)			
	POLE SWITC		0(.)0()			
L	<u>!</u>	DOWN	3 (+) 6 (-) 3 (+) 6 (-)			
М	1	UP	3 (+) 6 (-)			
N	1	DOWN	3 (+) 6 (-)			
	2	DOWN	[(+)4(-)			
P	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 0 1125VAC 2250VAC 43V 612V No lamp Neon 8 24V Incandescent 43V superbright Green Red F R H T LED* Amber Red 2VDC Ñ 24VDC *Consult factory for "daylight bright" LED. Typical current draw for LED is 20ma

8. FLUSH BRACKET COLOR, PANEL SEAL

X & XI with Flu	ush Br	acket	X, XI,	XII with	Raised Bracket	
# of gaskets	0	1	2	0	1	
Black	В	С	D	1	4	

9. ACTUATOR

No Actuator	0 Black	Red	
Contura X	1	4	3,6 1,4
Contura XI	6	9	
Contura XII	J	M	
Actuator orien	tation over	terminals:	

10. LENS - ABOVE LAMP #1 TERMINALS 1.4 11. LENS - ABOVE LAMP #2 TERMINALS 3,6

0 - No	Actuat	or	z	- No	Lens	
Clear	White	Amber	Green	Red	Blue	Lens Style
3	8	D	J	P	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 LENS OR BODY LEGENDS 2

11	- No ON OFF	12	end t OFF ON			on / 14		actuator			
15	0 O F N	16	O O N F	17	7 01	18	10				
	F		F								
21		22		23		24					
	OFF		ON		0		I				
25	Ō	26	O	27	0	28	I				
	_		IN							$\overline{}$	
F	. F	. :									
l FOI	ומממו	บดท	ai lec	ienc	I ODTIC	วยาร ช	x CO	des. Visit us	s or ww	w.carlinatech (com

13. ACTUATOR LENS OR BODY LEGENDS (3)

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

16. 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.

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

- es: Consult factory to verify norsepower 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. 3

Ordering Scheme contura X 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 8 - - 7 Terminals 7, 8, 9 & 10 for lamp circuit only. 2 - - 5 3 - - 6 3 - - 6 10--9 2 Connected Terminals NONE 2 & 3, 5 & 6 ON ON 1 & 2, 4 & 5 OFF DP NONE N OFF NONE ON SPECIAL CIRCUITS
H* 2&3 2 & 3, 5 & 4 2 & 3 2 & 3 5 & 3 2 & 3, 5 & 6 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

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)

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

4. TERMINATION / BASE STYLE

<u>8 term</u>	<u>10 Term</u>	Termination .	<u>Jumper</u>			
	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 Luă	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

Sealed Lamps Illumination Type Lamp wired to Terminals UP INDEPENDENT DOUBLE POLE SWITCHES ONLY 3 (+) 6 (-)

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.

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Browse Standard Parts >

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

Selection 6: above terminals 1 & 4; Selection 7: above terminals 3 & 6 No lamp 1 125VAC **2** 250VAC **6** 12V Neon 8 24V 4 3V Incandescent LED* superbright superbright Red Amber Green Red 2VDC 12VDC N н * Consult factory for "daylight bright" LED options. Typical current draw for LED is 20ma.

8. FLUSH BRACKET COLOR, PANEL SEAL

Black No Gasket One Gasket 4

9. HARD SURFACE ACTUATOR

Contura X Black Red Actuator orientation over terminals:

10. LENS - ABOVE LAMP #2 TERMINALS 5

Z - No Lens Clear White Amber Green Red Blue Lens Style 3 8 D Р Bar 4 9 Κ R w Ε One piece Square 5 Α Two piece Square* (with clear top protective lens) 2 7 С Ν Two piece Square* (with smoke top protective lens) 6 В G М 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 Safety Orange Gray	Up A B C D E F	Down H J K L M G	Up & Down R S T V W N	
--	----------------------------------	------------------------------------	-----------------------	--

13. ACTUATOR LENS OR BODY LEGENDS 2

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

14. LEGEND ORIENTATION

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

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, 5 & 6 (2 & 3, 5 & 6) (2 & 3, 5 & 6) 2 & 3 2 & 3 2 & 3 M* R* E* OFF 2 & 1 5 & 6 s* 2 & 3, 5 & 6 2 & 3 1 & 2 *Jumper between terminals 2 & 5 for circuits H,G,M,R & S are specified in

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

Terminal Connections as viewed () - momentary

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	10 Term	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
1	2		No
A	B		No
J	K		Yes T2 to 5
3	4		No
C	D		No
5	6		No
E	ь	Wire Leads no barriers	NO
	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 c	niy	
	Lamps	Illumination Type	Lamp wired to Terminals
S	NONE		- '
Α	1	INDEPENDENT	8 (+) 7 (-)
	i	DOWN	3 (+17 (-1
B C	2	UP	3 (+) 7 (-) 3 (+) 7 (-)
Ď	ī	DOWN	3 (+) 7 (-)
D	່ວ	DOWN	1,4,4,4,4
Е	1	UP	\}\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
_	2		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
_	2	UP	3 (+) 7 (-)
F	I	INDEPENDENT	8 (+) 7 (-) 3 (+) 6 (-)
	2	UP	3 (+) 6 (-)
G	1	INDEPENDENT	8 (+) 7 (-)
	2	UP	3 (+) 7 (-)
Н	2	INDEPENDENT	8 (+) 7 (-)
SINGLE F	OLE SWITCHE	S ONLY	. , . ,
J	1	DOWN	3 (+) 8 (-)
-	2	INDEPENDENT	6 (+) 7 (-)
К	ī	INDEPENDENT	8 (+) 7 (-)
.`	2	INDEPENDENT	6 (+) 7 (-)
DOLIBLE	POLE SWITCH		0(.)/()
L	1	DOWN	3 (+) 6 (-)
_	1	UP	
М			3 (+) 6 (-) 3 (+) 6 (-)
N	ı	DOWN	3 (+) 6 (-)
_	2	DOWN	! \+\ 4 \-\
P	Ţ	UP	! (,+), 4 (,-),
	2	UP	3 (+) 6 (-)
U	1	INDEPENDENT	8 (+),7 (-),
	2	INDEPENDENT	10 (+) 9 (-)

6 & 7. LAMP

No lamp Neon Incandescent	0 1125VAC 43V	2 250VAC 6 12V	8 24V	
LED*			superbright	<u>s</u> uperbright
2VDC 12VDC 24VDC * Consult factor draw for LED is 2	Red A C D y for "dayligl 0ma.	Amber L N P nt bright" LE	Green F H J ED options. Ty	Red R T V ypical current

8. BRACKET COLOR & PANEL SEAL

	2 Gas D	1 Gasket C	No Gasket B	Color Black	
--	-------------------	----------------------	-----------------------	----------------	--

9. ACTUATOR STYLE

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

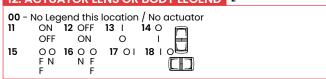
10. LENS COLOR / STYLE

0 - No <i>i</i>	Actuato	r	Z - No	Lens		
Clear	White	Amber	Green	Red	Blue	•
1	6	В	G	М	T	CID
2	7	С	Н	N	U	m
3	8	D	J	Р	٧	
4	9	E	K	R	W	
5	Α	F	L	S	Υ	60
5	Α	N/A	N/A	N/A	N/A	Laser-Etched Actuator
Only Ler	ns color	for LEDs r	must be			e, or match color of LED.
Green o	r hlup le	nege are	not rec	omm	ander	with Neon James

11. ACTUATOR COLOR 1

	to to thou object
O	N/A - No Actuator
C	Black
S	Red

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		**	
4	Orientation 4	1	2	3	4

12. ACTUATOR LENS OR BODY 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 and gray actuators.

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

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Ordering Scheme

Sample Part Number 2 3 8 10 11

1. SERIES

Selection

V-Series

2. CIRCUIT

Terminal Connections as viewed () - momentary from bottom of switch: SP - single pole: terminals 1, 2 & 3. DP - double pole: terminals 1, 2, 3, 4, 5 & 6. Terminals 7, 8, 9 & 10 for lamp circuit only. 8 terminal 10 terminal 8 - - 7 1- - 4 2--5 2 - - 5 3 - - 6 3 - - 6 10 -- 9 Position: 1 & 2, 4 & 5 SP DP 2 & 3, 5 & 6 Connected Terminals NONE (ON) NONE OFF 4 D ON NONE ON 6 7 J ON OFF ON Κ ON OFF (ON) 8 (ON) OFF (ON 9 NONE SPECIAL CIRCUITS 2 & 3 2 & 3, 5 & 4 H* 5 & 4 2 & 3, 5 & 6 (2 & 3, 5 & 6) G* 2 & 3 OFF 2 & 3 М* OFF 2 & 3 (2 & 3, 5 & 6) 2&1 5 & 6 5 & 3 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>	<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

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

S C H	Lamps NONE 2 2	<u>lllumination Type</u> –	Lamp wired to Terminals - 3 (+) 7 (-) 8 (+) 7 (-)
DOUE	BLE POLE SV	VITCHES ONLY	3 (+) 6 (-)
M	1	UP	

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 1 125VAC 2 250VAC Neon 8 24V Incandescent 4 3V 6 12 V superbright superbright Red **Amber** Green Red 2VDC 12VDC C Ν 24VDC D * Consult factory for "daylight bright" LED options. Typical current draw for LED is 20ma.

8. BRACKET COLOR & PANEL SEAL

Color 1 Gasket 2 Gasket No Gasket Black

9. ACTUATOR COLOR / STYLE

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

10. LENS COLOR / STYLE

Z - No Lens Clear White Amber Green Red В G М 8 D N/A Laser-Etched Only N/A N/A N/A 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 COLOR / FUNCTION

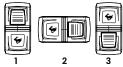
	LOCK IN POSITION					
Lock Color	UP	DOWN	UP & DOWN	CENTER		
Match Actuator	Α	Н	R	1		
Black	В	J	S	2		
White	С	K	T	3		
Red	D	L	V	4		
Orange	Ε	М	W	5		
Gray	F	G	N	6		
1						

12. ACTUATOR LENS OR BODY LEGENDS 2

00 - No Legend 0 **26** O **27** O **28** I F F

13. LEGEND ORIENTATION

No legend Orientation 1 Orientation 2 Orientation 3 Orientation 4





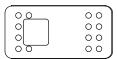
© Configure Complete Part Number > © Browse Standard Parts >

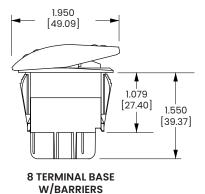
Dimensional Specs

inches [millimeters]

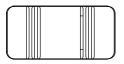
CONTURA II

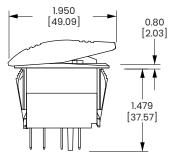
SHOWN WITH SQUARE LENS



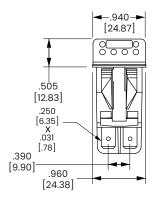


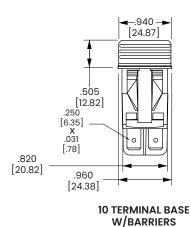
CONTURA III

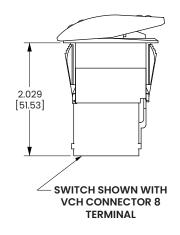


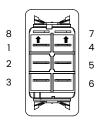


8 TERMINAL BASE W/O BARRIERS

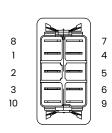








BOTTOM VIEW TERMINAL ARRANGEMENT 8 TERMINAL BASE



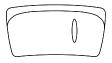
BOTTOM VIEW TERMINAL ARRANGEMENT 10 TERMINAL BASE

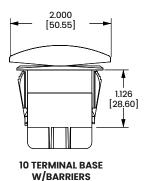
Dimensional Specs

inches [millimeters]



SHOWN WITH BAR LENS





- 1.050 **→**

10 TERMINAL BASE W/O BARRIERS

[26.67]

.250 [6.35] X .031 [.78]

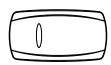
> .960 [24.38]

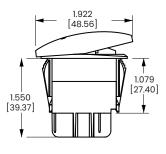
.820

[20.82]

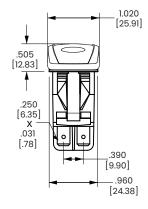
CONTURA V

SHOWN WITH BAR LENS





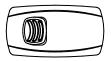
8 TERMINAL BASE W/BARRIERS

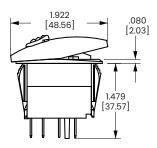


8 TERMINAL BASE W/BARRIERS

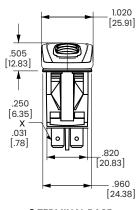


SHOWN WITH LOW PROFILE LOCK



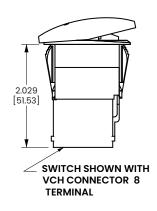


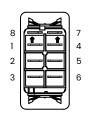
8 TERMINAL BASE W/O BARRIERS



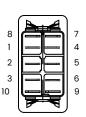
8 TERMINAL BASE W/O BARRIERS







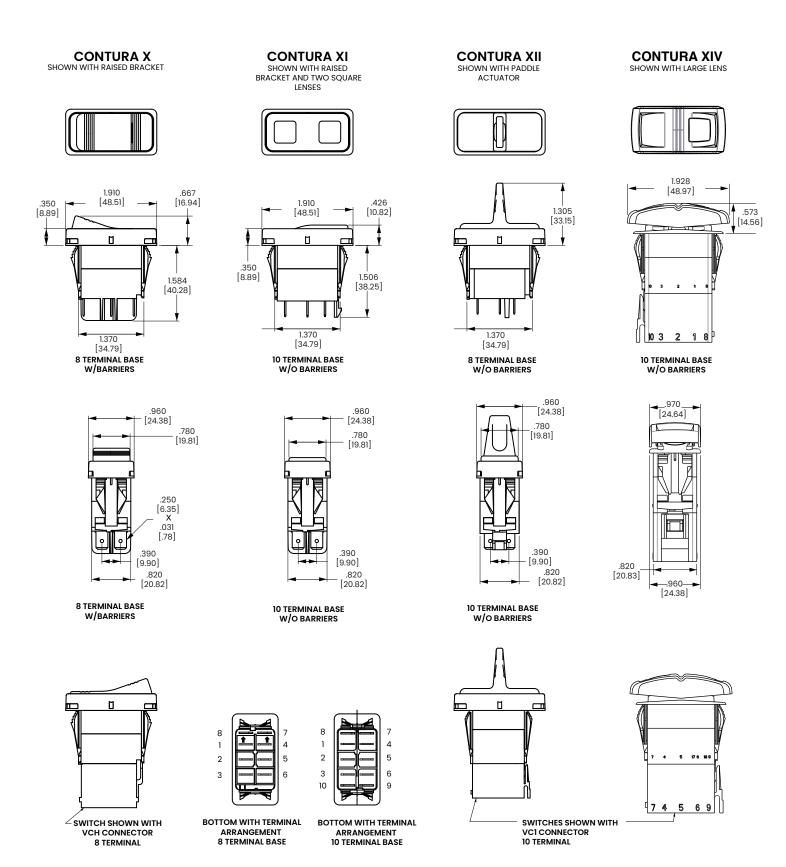
BOTTOM VIEW TERMINAL ARRANGEMENT 8 TERMINAL BASE



BOTTOM VIEW TERMINAL ARRANGEMENT 10 TERMINAL BASE

Dimensional Specs

inches [millimeters]



Circuit Diagrams:

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

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

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

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

Lamp Circuit Diagrams:

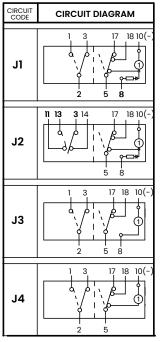
LAMP CIRCUIT CODE	CIRCUIT DIAGRAM
Α	+8 0 1 1 1 1 1 1 1 1 1
В	+3
С	+3
D	+1 +3
E	+1 +3

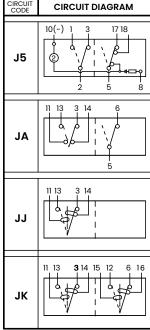
LAMP CIRCUIT CODE	CIRCUIT DIAGRAM
F	+8 +3 -6
G	+8 +3
н	+8
J	-8 +3 +6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
К	+8 +6

LAMP CIRCUIT CODE	CIRCUIT DIAGRAM
L	
М	13 -6
N	+1 +3 -4 -6
P	+1 +3 -4 -6
U	+8 +10

LAMP CIRCUIT CODE	CIRCUIT DIAGRAM
SPECIAL #1	+3 +6 0 0 0 0 0 0
SPECIAL #3	+8 +6
SPECIAL #4	+8 +3

J-Series Hazard Warning Circuit Diagrams:





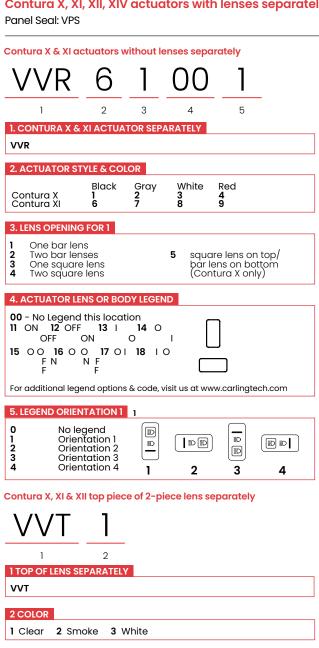
NOTE:
J circuits are available for all
non-locking V-Series styles.
Consult factory for partnumber details.

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, X, XI, XII, 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 II, III, IV, V 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.

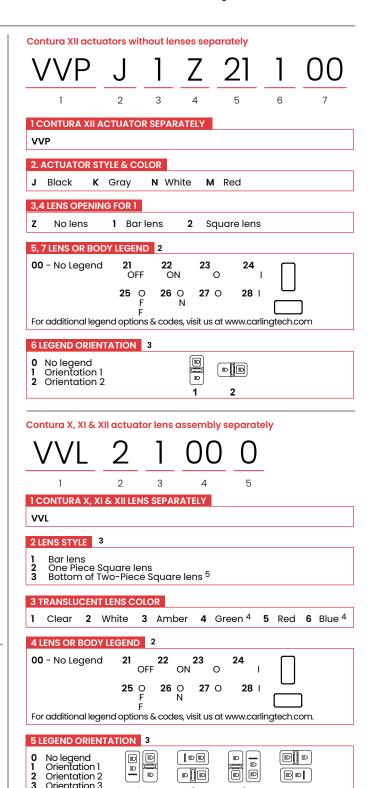


Contura X, XI & XII actuator lens assembly:



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.



1

Orientation 4

2

3

4

Accessories

Easily integrate Contura products into your system, with Contura Accessories

Contura Connectors

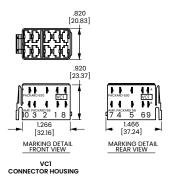
Q.C. SELECTION GUIDE					
	PART NO		WIRE RANGE		
COMPANY SERIES	PLAIN BRASS	TIN PLATED BRASS	AWG	MM ² (REF)	ORIEN- TATION
	02965580		12	3.0	
	02965471	12010601	(2)16-14	(2)1.0-2.0	
PACKARD 58 SERIES	02965470		16-14	1.0-2.0	В
OO GERREG	02965469	06288318	20-18	.58	
		12084590	105.0		
		12052224	123.0		
PACKARD		12015870	16-14	1.0-2.0	
METRI-PACK		12020035	(2)22-18	(2).58	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	

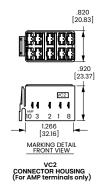
TANG TANG SYMBOL = SHOWS ORIENTATION OF TANG IN SLOT SYMBOL

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

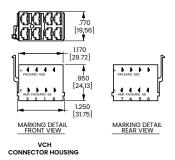
AMP is a registered trademark of AMP Inc. Harrisburg, PA

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





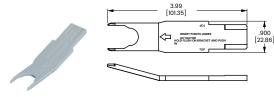




Contura X Boot (P/N VB1-01)



Contura II, III, IV and V Actuator Removal Tool (P/N VRT)



Additional V-Series Ratings

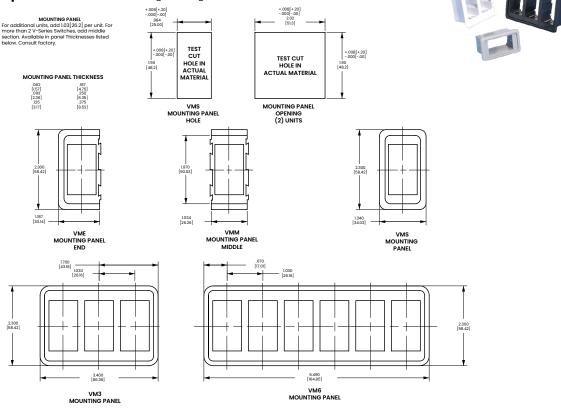
- .4VA @ 28VDC Resistive
- 10A 250VAC 1/2 HP, 15A 125 VAC 1/2 HP, No Agency Listings 10A 250VAC 1/2 HP, 15A 125 VAC 1/2 HP, UL Recognized, CSA Certified
- В
- 15A 24V 20A 18V
- С
- 20A 12V
- 20A 14V, 10A 14VT (circuits 1, 4, A, & D only) 10A 14V, 6A, 14VT (circuit G only)
- G 20A 6V
- 15A 125 VAC, 10A 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]

