

Whatever your application, our Contura switches deliver the performance you demand

— and the flexibility you need. There's no challenge these sealed switches can't help you address. Especially since they're IP66/IP68 certified, UL1500 recognized, and able to withstand temperatures from -40°C to +85°C. Never have such rugged switches been available in such attractive packages. A dazzling array of light, lens and legend options on several actuator styles, plus countless circuit combinations, and valuable accessories, make our Contura switches the ideal choice.

Maximum Design Options with minimum inventories

Panel redesign is a snap, requiring no tooling change, with our removable interchangeable actuators. A unique balance between aesthetics and functionality.

Withstands Extreme Temperatures

Roller pin mechanism eliminates need for lubricants, so it can withstand from - 40°C to +85°C.

Seals out water, dust and debris

Dual seal protection locks out elements. Certified to IP66/IP68.

Clean Connections

Offered in both eight and ten terminal base options. AMP & Packard compatible connectors available.

Multiple Lighting Options

Incandescent lamps & LED illumination. Our LED illumination is offered in a wide array of light intensities, colors, as well as dual level illumination and flashing options.

Optional Panel Seal

Prevents water/dust egress behind panel.



V-Series Contura Switches

V-Series switches offer countless unique options including choices for ratings, colors, illuminations and symbols. These switches feature removable actuators in a choice of actuator styles and colors, and are available in single or double pole configurations. The V-Series switches can be illuminated with either square, oval and/or bar shaped lenses.



Contura II

The Contura II actuators are constructed of thermoplastic polycarbonate, and are offered with either a hard nylon overlay, or a "soft-touch" elastomer overlay. The Contura II incorporates an aesthetic design of two rows of raised "bumps" on the top and bottom of the rocker



Contura III

The Contura III actuators are constructed of thermoplastic polycarbonate, and are offered with either a hard nylon overlay, or a "soft-touch" elastomer overlay. The Contura III incorporates three rows of bars on the top and bottom of the rocker.



Contura IV

The Contura IV's "Shape to create a Shape" actuator supports the designer, by working with the curves, contours and advanced styling of the latest panel designs, flowing with these advanced curves and radii. This actuator style fits on the Contura II & III 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. It can be mounted in between two Contura IV's, by itself, or in groups. This actuator style is available with all flush style mounting brackets.



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. The conventionally designed actuators are available with one-piece bar lenses, or square lenses in either one or two part construction with backlit legends, for increased durability of lens symbols.



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. The actuators are available with one-piece bar lenses, or square lenses in either one or two part construction with backlit legends, for increased durability of lens symbols.



Contura XII

The Contura XII version incorporates a paddle style handle on the raised bracket/bezel, also used in the Contura X and XI switch. The contoured handle design provides intuitive recognition and ease of operation for a variety of transportation related applications, and is available with all Contura X and XI lens and legend offerings.



Illuminated Plug

The Illuminated Plug is offered with removable/ replaceable lamps, Contura II, V and X styling, and LED illumination. As a critical safety feature, it's illumination alerts the operator of essential system functions or malfunctions like: oil pressure, high temperature, transmission or other fluid levels, parking brake, or general system malfunction.

V-Series Accessories/Options

Carling Technologies also offers many V-Series accessories including connectors, mounting panels, hole plugs, panel seals, and actuator removal tools.

















Electrical

Contact Rating 4VA @ 24VDC (MAX) resistive

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

6A 125 VAC L

Dielectric Strength 1500 Volts RMS Insulation Resistance . . . 50 Megohms

Initial Contact Resistance. 10 milliohms max. @ 4 VDC Life 50,000- 100,000 cycles circuit

dependent

Contacts Silver cad-oxide, silver tin-oxide, fine

silver

Brass or copper/silver plate 1/4"

(6.3mm) Quick Connect terminations standard. Solder lug, Wire Lead

Mechanical

Endurance 150,000 cycles minimum

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 24 VDC) Seals Internal

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

UL flammability rating of 94 V-O.

Contura II, III, IV, V

Hard Surface: Basic actuator struc-

ture molded of thermoplastic polycarbonate with a hard Nylon 66 thermo-

plastic 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

Actuator Travel (Angular Displacement)

2 position 18°

3 positions 9° from center

Mounting Specifications

Panel Thickness Range

of gaskets Acceptable Panel Thickness 0 .030 to .250 (.76mm to 4.76mm) .030 to .109 & .147 to .157

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

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

Agency Certifications















Environmental

Environmental Sealed version: IP68. in accordance with IEC 529, BS 5490, DIN 400 50

& NFC 20 010. This rating applies to front panel components and signifies protection against dust and the prolonged effects of immersion under pressure. The standard test for immersion under pressure requires submersion under one meter of water for 30 minutes. The V-Series switch has exceeded these parameters, having been actuated and illuminated during submersion.

NOTE: Sealed switch with optional panel gasket will meet IP67 rating.

Flowing Mixed Gas (FMG)

Class III 3 year accelerated exposure per ASTM B-827, B-845 Silver and gold contacts

Operating Temperature . . -40° C to + 85° C

Per Mil-Std 202F, Method 204D Test Vibration 1

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

ance.

Resonance search Vibration 2

24-50 Hz 0.40 DA 50-2000 ±10 G's peak

Results Horizontal Axis 3-5 G's max.

Random

0.06 PSD-Gsq/Hz 24 Hz 60 Hz 0.50 100 Hz 0.50 200 Hz

0.025 2000 Hz 0.025

No loss of circuit during test; $<10\mu$

seconds chatter.

Per Mil-Std 202F, Method 213B, Test Shock 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, 48 Hrs. Sealed version

only.

Per Mil-Std 810C, Method 510.2 Air Velocity 300 ±200 Feet/Min, Test

Duration 16 Hrs.

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

Condition 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

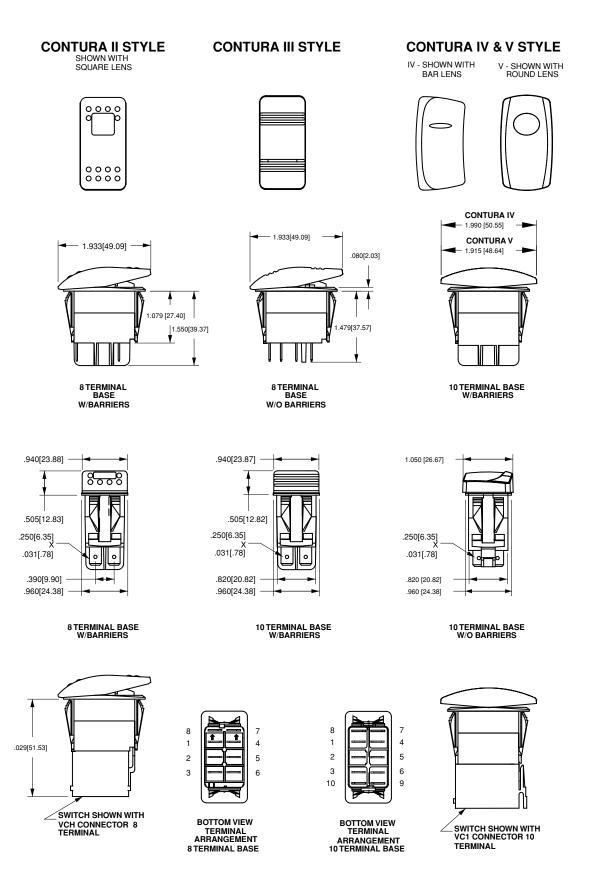
resistance

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.



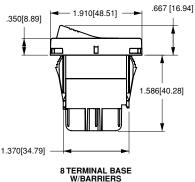
Dimensional Specifications: in. [mm]

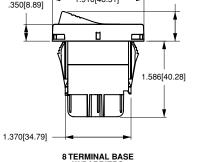


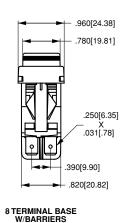


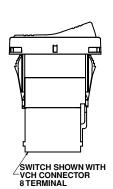
Dimensional Specifications: in. [mm]

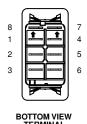
CONTURA X STYLE SHOWN WITH RAISED BRACKET





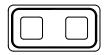


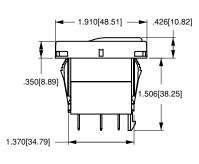




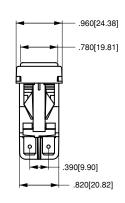


CONTURA XI STYLE SHOWN WITH RAISED BRACKET AND TWO SQUARE LENSES

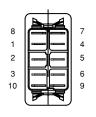




10 TERMINAL BASE W/O BARRIERS



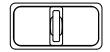
10 TERMINAL BASE W/BARRIERS

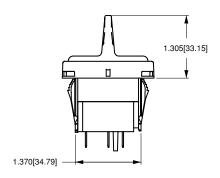


BOTTOM VIEW TERMINAL ARRANGEMENT 10 TERMINAL BASE

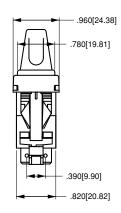
CONTURA XII STYLE

SHOWN WITH PADDLE ACTUATOR





8 TERMINAL BASE W/O BARRIERS



10 TERMINAL BASE W/O BARRIERS

































Circuit

Rating

Termination Illumination Lamp

Lamp

Bracket

10 Actuator

Lens

12 Legend

13 Legend Orientation

Lens Legend

1 SERIES

2 CIRCUIT Terminal Connections as viewed from bottom of switch: 8 terminal 10 terminal 8 - 7 14 14 25 25 36 36 109	() - momentary SP - single pole - uses terminals 1, 2 & 3. DP - double pole uses terminals 1, 2, 3, 4, 5 & 6. Terminals 7, 8, 9 & 10 for lamp circuit only.				
Position: 1 SP DP 2 & 3, 5 & 6 1 A ON 2 B (ON) 3 C ON 4 D ON 5 F ON 6 J ON 7 K ON 8 L (ON) SPECIAL CIRCUITS	2 Connected Terminals NONE NONE NONE NONE NONE OFF OFF OFF	3 1 & 2, 4 & 5 OFF OFF OFF (OFF) ON (ON) ON (ON)			
H* 2 & 3 G* 2 & 3, 5 & 6 S 2 & 3, 5 & 6 M* (2 & 3 5 & 6)	2 & 3, 5 & 4 2 & 3 2 & 3 2 & 3	5 & 4 OFF 1 & 2			

 M*
 (2 & 3, 5 & 6)
 2 & 3
 OFF

 R
 (2 & 3, 5 & 6)
 2 & 3
 1 & 2

 E*
 5 & 6
 5 & 3
 5 & 3

 Jumper between terminals 2 & 5 for circuits H, G, & M 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, Circuits H, M & E not available with ratings 5 - 9.

3 RATING⁴

.4VA @ 28VDC Resistive

10A 250VAC 1/2 HP, 15A 125VAC 1/2 HP, No Listings 10A 250VAC 1/2 HP, 15A 125VAC 1/2 HP, UL Recognized, CSA Certified 10A 250VAC, 15A 125VAC, 1/2 HP 125-250VAC, 12(2)A 250 VAC μ T85 10A 250VAC, 15A 125VAC, 1/2 HP 125-250 VAC, 12(6)A 250 VAC T85

20A 18V

Ratings 8 & 9 are UL, CSA, VDE, DEMKO, SEMKO, NEMKO, FIMKO & BEAB certified, require terminations A or B for double pole circuits, & are not available with illumination circuits 4, 8, D, J, N, & T or with wire lead or solder lug terminations. Circuits 1, 4, A & D are not available with rating 8. Rating 9 only available with circuits 1, 4, A & D. Ratings 8 & 9 must specify lamp code 2 (250VAC neon).

4 IERIV	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					
Е	F	Wire Leads	No					

Note: Codes J & K for circuits H, G & M. Ratings 8 & 9 require terminations A or B only

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

Seale S A B C D	d <u>Unsealed</u>	Lamps None	Actuator Lens position when Illuminated	Lamp wired to Terminals
Ă	ĭ	# 1	Independent	8+ 7-
В	1 2 3 4	# 1	Down	3+ 7- 3+ 7- 3+ 7-
K	3	# 2 # 1	Up Down	3+ 7- 3+ 7-
U	4	# 1 &# 2</td><td>Down</td><td>1+ 7-</td></tr><tr><td>Е</td><td>5</td><td># 1</td><td>Up</td><td>1+ 7-</td></tr><tr><td>_</td><td>-</td><td># 1 & # 2</td><td>Uģ</td><td></td></tr><tr><td>F</td><td>6</td><td># 1 & # 2</td><td>Independent</td><td>8+ 7-</td></tr><tr><td>_</td><td>7</td><td>& # 2</td><td>Up '</td><td>3+ 7- 8+ 7- 3+ 6- 8+ 7- 3+ 7- 8+ 7- 8+ 7-</td></tr><tr><td>G</td><td>1</td><td>#1 </td><td>Independent</td><td>8+ /- 3+ 7-</td></tr><tr><td>Н</td><td>7</td><td># 2</td><td>Up Independent</td><td>8+ 7-</td></tr><tr><td>Ü</td><td>Z Y</td><td># 1</td><td>Independent</td><td>8+ 7-</td></tr><tr><td>_</td><td>-</td><td>& # 2</td><td>Independent</td><td>10+ 9-</td></tr><tr><td>Select</td><td>ions for Sing</td><td>jle Pole Sv</td><td>vitches Only:</td><td></td></tr><tr><td>J</td><td>8</td><td>´ # 1</td><td>Down</td><td>3+ <u>8</u>-</td></tr><tr><td>V</td><td>14/</td><td>& # 2</td><td>Independent</td><td>6+ 7- 8+ 7-</td></tr><tr><td>K</td><td>W</td><td># 1 & # 2</td><td>Independent</td><td>6+ 7-</td></tr><tr><td>Select</td><td>ions for Dou</td><td>hle Pole S</td><td>Independent witches Only:</td><td>0+ /-</td></tr><tr><td>L</td><td>9</td><td># 1</td><td>Down</td><td>3+ 6-</td></tr><tr><td>M</td><td>9 R</td><td># 2</td><td>Up</td><td>3+ 6-</td></tr><tr><td>N</td><td>Ť</td><td># 1</td><td>Down</td><td>3+ 6- 3+ 6- 3+ 6-</td></tr><tr><td>_</td><td>.,</td><td>& # 2</td><td>Down</td><td>1+ 4-</td></tr><tr><td>Р</td><td>V</td><td>#1</td><td>Up</td><td>3+ 6- 3+ 6- 1+ 4- 1+ 4- 3+ 6-</td></tr><tr><td>U</td><td>Υ</td><td>& # 2 # 1</td><td>Up Indopendent</td><td>3+ 6- 8+ 7-</td></tr><tr><td>U</td><td></td><td># 1 & # 2</td><td>Independent Independent</td><td>0+ 7- 10+ 9-</td></tr><tr><td></td><td></td><td>∞ // L</td><td>maoponaont</td><td>101 0</td></tr></tbody></table>		

6,7 LAMP (same coding for both selections)

Selection 6: abo	ove terminals	1 & 4; Selection	on 7: above te	erminals 3 & 6	5	
Neon	1 125VAC	2 250VAC				
Incandescent	4 3V	5 6V	6 12V	7 18V	8 24V	
LED [*]			superbright	t superbrigh	t	
	Red	Amber	Green	Red		
2VDC	Α	L	F	R		
6VDC	В	M	G	S		
12VDC	С	N	Н	T		
24VDC	D	P	J	V		
* Consult factory for "daylight bright" LED options. Typical current draw for LED is 20ma.						

8 BRACKET COLOR¹, PANEL SEAL (external foam gasket)

		,		3.	/	
	X & >	(I w/Flush Br	acket	X, XI, XII w/F	Raised Brack	ĸet
# of gaske	ets 0	1	2	0	1	
Black	В	С	D	1	4	
White	W	Υ	Z	2	5	
Grav	G	н	J	3	6	

9 A	CIUAIOF	ſ				
No	Actuator	0 Black	Gray	White	Red	
Cor	ntura X	1	2	3	4	
Cor	ntura XI	6	7	8	9	\bigcirc
Cor	ntura XII	J	K	N	M	كك
			Actuator orienta	ation above termin	als:	3.6 1.4

10 LENS - above lamp #1 terminals 1,4

11 LENS - above lamp #2 terminals 3,6 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 A	Actuator		Z - No Lens			
Clear	White	Amber	Green	Red	Blue	Lens Style
3	8	D	J	Р	٧	Bar
4	9	E	K	R	W	One piece Square
5	Α	F	L	S	Υ	Two piece Square*
						(w/ clear top protective lens)
2	7	С	Н	N	U	Two piece Square*
						(w/ smoke top protective lens)
1	6	В	G	M	T	Two piece Square*

⁽w/ white top protective lens) * All bottom lenses are molded of opaque material. Consult factory for other lens colors.

12 ACTUATOR LENS OR BODY LEGEND²

00	- No Le	gen	d this lo	catio	n/No ad	ctuato	or	
11	ON	12	OFF	13	1	14	0	
	OFF		ON		0		1	
15	0 0 F N	16	0 0 N F	17	ΟΙ	18	1 0	
	F		F					_
21		22		23		24		
	OFF		ON		0		I	
25	0	26	0	27	0	28	l	
	F		N					

For additional legend options & codes, see page 69 of this catalog

13 L	GEND ORIENTATION3 ORIENTATION OF ACTUATOR/LENS IN PANEL
0	No legend (used with codes 11-18 in selection 12) ORIENTATION 1
1	Orientation 1
2	Orientation 2
3	Orientation 3 ORIENTATION ORIENTATION
4	Orientation 4 PD 2
	GZZ3G-100 GZZ3G-107 GZ → MA

14 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 & one body legend, lens legend must be specified in selection 12; body legend specified in selection 14. For legend options & codes, see page 69 of this catalog.

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 sel. 12 for lens above lamp 1, & selection 14 for lens above lamp 2.

Additional ratings available. See page 57.

Not available with Contura XI rockers.







Circuit

Termination Illumination Lock



Lamp



Bracket



Actuator



10



Function



Legend



13 Leaend Orientation

1 SERIES

2 CIRCUIT Terminal Connections as viewed from bottom of switch: 8 terminal 10 terminal 8 - 7 8 - 7 1 - 4 1 - 4 2 - 5 2 - 5 3 - 6 3 - 6 10 - 9	() - momentary SP - single pole - uses tern DP - double pole uses tern Terminals 7, 8, 9 & 10 for l	ninals 1, 2, 3, 4, 5 & 6.
Position: 1 SP DP 2 & 3, 5 & 6 1 A ON 4 D ON 6 J ON 7 K ON 8 L (ON) 9 N OFF SPECIAL CIRCUITS	2 Connected Terminals NONE NONE OFF OFF OFF NONE	3 1 & 2, 4 & 5 OFF ON ON (ON) (ON) ON)
G* 2 & 3, 5 & 6 S 2 & 3, 5 & 6 M* (2 & 3, 5 & 6) R (2 & 3, 5 & 6) E* 5 & 6 *Jumper between terminals 2 & 5 for	2 & 3, 5 & 4 2 & 3 2 & 3 2 & 3 2 & 3 2 & 3 circuits H, G, & M are specified	5 & 4 OFF 1 & 2 OFF 1 & 2 5 & 1 d 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. Circuits H, M & E not available with ratings 5,8 &9

- .4VA @ 28VDC Resistive 10A 250VAC 1/2 HP, 15A 125VAC 1/2 HP, No Listings 10A 250VAC 1/2 HP, 15A 125VAC 1/2 HP, UL Recognized, CSA Certified 10A 250VAC, 15A 125VAC, 1/2 HP 125-250VAC, 12(2)A 250 VAC μ Τ85 10A 250VAC, 15A 125VAC, 1/2 HP 125-250 VAC, 12(6)A 250 VAC T85
- 15A 24V
- 20A 18V 20A 12V
- Ratings 8 & 9 are UL, CSA, VDE, DEMKO, SEMKO, NEMKO, FIMKO & BEAB certified, require terminations A or B for double pole circuits, & are not available with illumination circuits 4, 8, D, J, N, & T or with wire lead or solder lug terminations. Circuits 1, 4, A & D are not available with rating 8. Rating 9 only available with circuits 1,4,A & D. Ratings 8 & 9 must specify lamp code 2 (250VAC neon).

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
Note: Cod	des J & K for o	circuits H, G & M. Ratings 8 & 9 require ter	minations A or B only.

5 ILLUMINATION & SWITCH SEALING

Lamp above terminals 3 & 6 end of switch.

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

Sealed	Unsealed	Lamps	Actuator Lens position when Illuminated	Lam Tern	np wired to ninals
Č H	3 Z	None # 2 # 2	Up Independent	3+ 8+	7- 7-
Selectio M	ns for Doub R	le Pole S # 2	witches Only: Up	3+	6-

6 LOCK

Lock above terminals 1 & 4 end of switch.

lock

NOTES

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

- Custom colors are available. Consult factory.
- White imprinting is standard on black actuators; Black imprinting is standard on white, red and gray actuators; Custom colors are available, consult factory.
- Located over T1-4 end of switch.
- Only available with 3 position circuits. Center OFF and special circuits only available with center position lock function.
- Additional ratings available. See page 57.

7 LAME

Lamp above terminals 3 & 6 end of switch. No lamp **0** 125VAC 2 250VAC

Incandescent 4 3V **5** 6V 6 12V 7 18V 8 24V superbright superbright Red Amber Green Red 2VDC R 6VDC 12VDC ВС M G Ν 24VDC

* Consult factory for "daylight bright" LED options. Typical current draw for LED is 20ma. 8 RAISED BRACKET COLOR¹, PANEL SEAL (external foam gasket)

Black White Gray No Gasket 6 One Gasket

9 HARD SURFACE ACTUATOR

Gray Black Red White Contura X

Actuator orientation above terminals



10 LENS - above lamp #2 terminals 3,6

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

* 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.

11 ACTUATOR LOCK FUNCTION AND COLORS

Lock Color	Up	Down	Up & Down	Center⁴
Match Actuator	A	Н	R [']	1
Black	В	J	S	2
White	С	K	Т	3
Red	D	L	V	4
Safety Orange	Е	M	W	5

12 ACTUATOR, LENS OR BODY LEGENDS²

00 -	No Le	egend				
21		22		23	24	
•	OFF		ON	0	I	
25	O F F	26	O N	27 O	28	

For additional legend options & codes, see page 69 of this catalog

13 LEGEND ORIENTATION3

0 No legend (used with codes 11-18 in selection 12) ORIENTATION OF Orientation 1 ACTUATOR/LENS IN PANEL 2 Orientation 2 ORIENTATION 1

3 Orientation 3 Orientation 4

мс 🔯

13DMC



OPIENTATION 4 ■





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54



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

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

Panel Seal: VPS

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

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

Contura X & XI actuators without lenses separately:

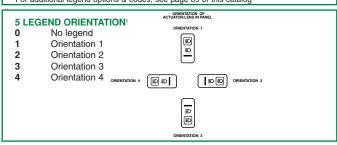


1 CONTURA X & XI ACTUATOR SEPARATELY

2 ACTUATOR STYLE & COLOR						
	Black	Gray	White	Red		
Contura X	1	2	3	4		
Contura XI	6	7	8	9		

2 One bar lenses bar lens on bottom 3 One Square lens (Contura X only)
--

4 ACTUATOR LENS OR BODY LEGEND 00 - No Legend this location 12 OFF 0 11 ON ON 0 15 0 0 16 0 0 17 0 I 18 I O FΝ ΝF For additional legend options & codes, see page 69 of this catalog



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



Contura X, XI & XII actuator lens assembly:

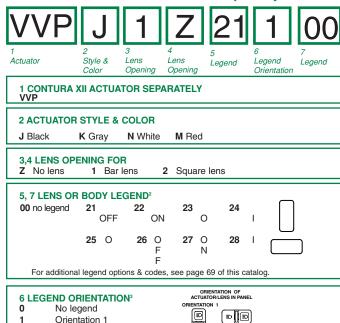


1 piece lens/bar lens are positioned the same as bottom lens for assembly, minus the top lens. Lenses snap in from bottom.

NOTES

- If actuator lens opening for 2 bar or 2 square lenses, legend orientation 0, 1, or 2 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:



Contura X, XI & XII actuator lens assembly separately:

Orientation 1

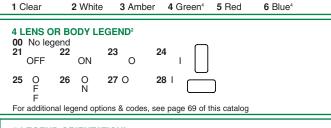
Orientation 2

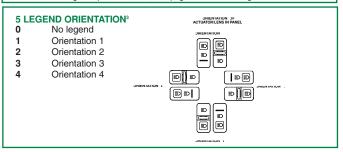
3 TRANSLUCENT LENS COLOR

2



1 CONTURA X, XI & XII LENS SEPARATELY 2 LENS STYLE³ 1 Bar lens 2 One Piece Square lens 3 Bottom of Two-Piece Square lens⁵







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 (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 OETHEO	02965469	06288318	20-18	.58		
		12084590	12	3.0		
		12052224	12	3.0		
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	00203-1	00233-2	(2) 16	(2) 1.3	В	
FASTIN-FASTON	42100-1	42100-2	18-14	.8-2	l B	
	60295-1	60295-2	22-18	.39		

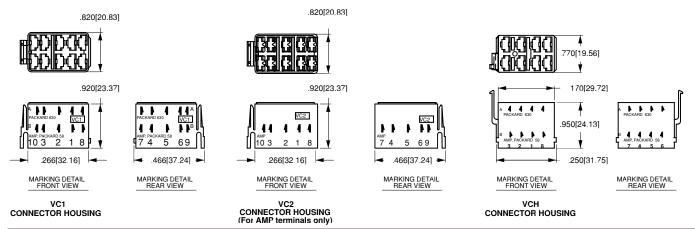




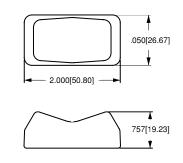
NOTE: Consult Delphi Packard and/or Amp or. actual part numbers and availability.

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

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



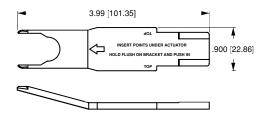
Contura X Boot







Contura II, III, IV & V Actuator Removal Tool



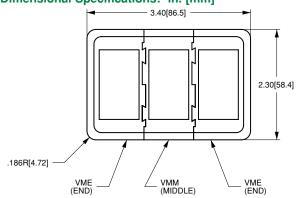
VRT ACTUATOR REMOVAL TOOL (For flush bracket)

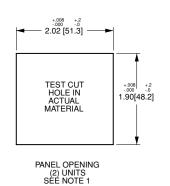




Contura Mounting Panels

Dimensional Specifications: in. [mm]

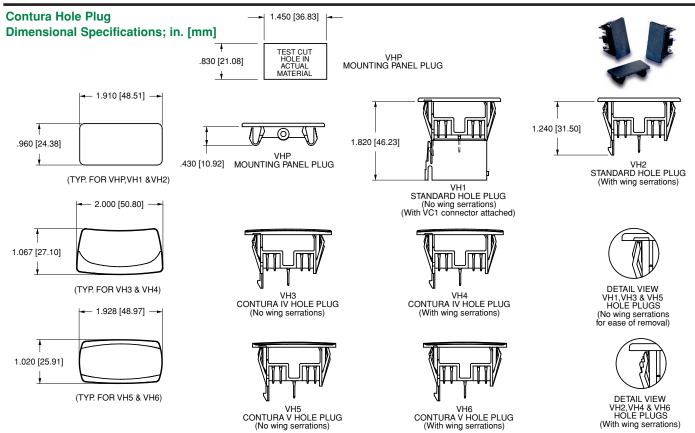






PANEL THICKNESS TOLERANCE:

- NOTES: 1. FOR ADDITIONAL UNITS, ADD 1.03 [26.2] PER UNIT. 2. FOR MORE THAN 2 V-SERIES SWITCHES, ADD MIDDLE SECTION.



Additional V-Series Ratings

- .4VA @ 28VDC Resistive
- 10A 250VAC 1/2 HP, 15A 125 VAC 1/2 H, No Agency Listings 10A 250VAC 1/2 HP, 15A 125 VAC 1/2 HP, UL Recognized, CSA Certified 5
- 15A 125VAC 1/2 HP, 12(2)A 125 VAC μ T85
- 15A 125VAC 1/2 HP, 12(6)A 125 VAC T85
- 8* 10A 250VAC, 15A 125VAC, 1/2 HP 125-250VAC, 12(2)A 250 VAC μ T85
- 10A 250VAC, 15A 125VAC, 1/2 HP 125-250VAC, 12(6)A 250 VAC T85 9
- В 15A 24V
- С 20A 18V
- 20A 12V
- Ε 20A 14V, 10A 14VT (circuits 1, 4, A, & D only)
- 10A 14V, 6A, 14VT (circuit G only)
- G 20A 6V
- 20A 3V

- 15A 125 VAC, 10A 250VAC, 1/2 HP 125-250 VAC; 6A 125 VAC L
- M .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 applications)

NOTES

Consult factory to determine availability for individual circuits.

* Ratings 6 - 9 are UL, CSA, VDE, DEMKO, SEMKO, NEMKO, FIMKO & BEAB certified, require terminations A or B for double pole circuits, & are not available with illumination circuits 4, 8, D, J, N, & T or with wire lead or solder lug terminations. Circuits 1, 4, A & D are not available with rating 6 & 8. Rating 7 & 9 only available with circuits 1, 4, A & D. Circuits 2, 3, 5, 7, 8, K, L are 1/2 HP 250VAC only with rating 8. Ratings 6 & 7 must specify lamp code 1 (125VAC neon). Ratings 8 & 9 must specify lamp code 2 (250VAC neon). Rating L available with circuits 1, 4, A & D only.



	LEGEND	LEGEND CODE			
SYMBOL	SYMBOL NAME (SYMBOL MEANING) RUNNING LIGHTS (UNDER POWER)		LENS NEGATIVE ¹ POSITIVE		
->-			NA	MA	
	LIGHT	АВ	NB	МВ	
-\\	MASTER LIGHT SWITCH	AC	NC	MC	
b	PROPULSION SYSTEM TRIM TRIMMING OPERATION VENTILATION FAN OR BLOWER		ND	MD	
→			NE	ME	
5			NF	MF	
	WINDSHIELD WASHER	AG	NG	MG	
\Diamond	WINDSHIELD WIPER	АН	NH	МН	
	BILGE PUMP	AJ	NJ	MJ	
Se por la constant de	BILGE BLOWER	AK	NK	MK	
}	POTABLE WATER PRESSURE	AL	NL	ML	
	ENGINE START	АМ	ED	ММ	
\Diamond	ENGINE STOP	AN	EE	MN	
71.7	DRIVE TILT TILT OPERATION	30		31	
	EMERGENCY START	32		33	
	UP/DOWN LIFT	34			
†	TRIM TAB TRIMMING OPERATION	35		36	

	LEGEND	LEGEND CODE			
SYMBOL	YMBOL NAME (SYMBOL MEANING)		LEN NEGATIVE ¹		
	ANCHOR LIGHT	37	NEGATIVE	38	
$\left \bigoplus_{i=1}^{n} \right $	ANCHOR	39		40	
—	WATER FLUSHING TAP FOR OUTBOARDS	41		42	
ED	HIGH BEAM	43	44	45	
	LOW / DIPPED BEAM		47	48	
	SIDE MARKER LIGHT	DG	49	DF	
深	INTERIOR LIGHT	50	51	52	
Q=	WORK LIGHT	53	54	55	
A	WORK LAMP	56	57	58	
-	LOADING FLOOR LAMP	CW	59	CY	
ON -WIPER- INT DELAY		60			
Ä	ROTARY BEACON	61	62	63	
$-\otimes$	LAMP TEST	DK	64	DL	
	WINDSHIELD WIPER/WASHER	65	66	67	
	HAZARD WARNING	68	69	70	
*	WARM AIR BLOWER	71	72	73	
₩R	HORN REAR	AX	74	Y4	

Negative lens not available on L or LD-Series.
 Additional Standard Markings available. Consult factory.