

# V-Series Contura Sealed Rocker Switches & Illuminated Plug

## 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.



## Electrical

Contact Rating	4VA @ 28VDC (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	50,000- 100,000 cycles circuit dependent
Contacts	Silver alloy, silver tin-oxide, fine silver
Terminals	Brass or copper/silver plate 1/4" (6.3mm) Quick Connect terminations standard. Solder lug, Wire Lead

## Mechanical

Endurance	150,000 cycles minimum circuit dependent
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## Physical

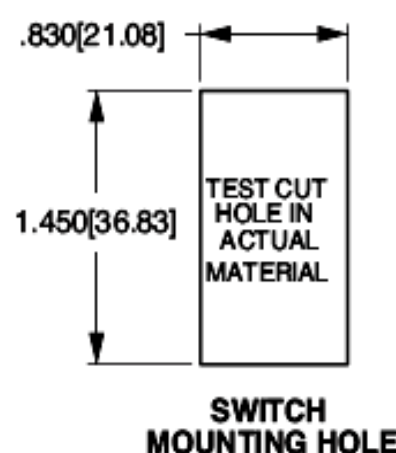
Lighted	Incandescent - rated 10,000 hours Neon - rated 25,000 hours LED - rated 100,000 hours 1/2 life (LED is internally ballasted for voltages to 24VDC)
Seals	Internal Optional external gasket panel seal
Base	Polyester blend rated to 125°C with a UL flammability rating of 94V0.
Contura II, III, IV, V, VI 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 Lens	Nylon 66 Reinforced rated to 105°C Polycarbonate rated at 100°C

## Actuator Travel (Angular Displacement)

2 position	18°
3 positions	9° from center

## Mounting Specifications

Panel Thickness Range	
# of gaskets	<b>Acceptable Panel Thickness</b>
0	.030 to .250 (.76mm 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	



Corrosion

Operating Temperature  
Vibration 1

Vibration 2

Shock

Salt Spray

Dust

Thermal Shock

Moisture Resistance

Ignition Protection

Sealed version: IP68, in accordance with IEC 60529, BS 5490, DIN 40050 & NFC 20 010. This rating applies to front panel components of the actual switch only, 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.

Flowing Mixed Gas (FMG)  
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 and pre and post test contact resistance.

Resonance search  
24-50 Hz 0.40 DA  
50-2000 ±10 G's peak  
Results 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, 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 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.

# V-Series Switch

## DESIGN FEATURES

### 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.

### SEALS OUT WATER, DUST AND DEBRIS

Dual seal protection locks out elements. Certified to IP66/IP68 for front panel components.

### CLEAN CONNECTIONS

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

### SILVER PLATED BUTT

Contact mechanism provides 50 to 100 thousand electrical cycles and a variety of different electrical ratings.

### WITHSTANDS EXTREME TEMPERATURES

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

### MULTIPLE LIGHTING OPTIONS

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

### OPTIONAL PANEL SEAL

Prevents water/dust egress behind panel.

