

## Application Solution 105:

# V-Series Approved for 6A 125VAC "L" Rating; Custom Color Projects Customer's Brand

### The Challenge:

An overhead projector manufacturer approached Carling Technologies Inc. for a new look for the power switch on their product. The switch needed to be sealed, and also had to handle the stringent electrical requirements necessary to control a tungsten filament lamp. In addition, the aesthetics of the switch needed to seamlessly blend in with the color and appearance of the customer's product.

### The Solution:

Carling Technologies proposed a slightly modified version of its existing V-Series product line. The V-Series contacts were re-engineered to handle a 6A 125VAC "L" rating. The switch was tested in Carling's extensive in-house Electrical Test Lab, and then submitted to UL and CSA for rating approval. Since the V-Series is already sealed to an IP68 standard, the only remaining issue was appearance. The customer liked the overall look of the Contura II styling, and was sold on the sure grip provided by the soft surface finish. A color match was then performed on the purple stripe of the projector, and Carling subsequently molded the Contura II rocker in the exact same purple color.



### The Results:

The new product offering was able to successfully satisfy all of the customer's requirements. The newly designed contacts easily handled the current inrush generated by the tungsten filament lamp, the sealed V-Series construction protects the inside of the switch from dust and debris, and the purple actuator provided an aesthetically seamless integration of the switch into the projector. As a result, the customer was able to offer a more unique, high tech look, as compared to the plain switches used by their competition.

### Applications:

The Contura V-Series switches are highly flexible switches, which are used in a variety of applications including: Marine, Transportation, Appliance, Generators, and Floor Cleaning Equipment. Additional "L" rated switches commonly used within the audio visual or other industries requiring high inrush switches include: the Carlingswitch brand R-Series and T-Series rockers, as well as 2F and 2G-Series toggles.

#### Warranty Policy

Carling Technologies, Inc. (Seller) warrants that goods sold hereunder shall be free of defects in material and workmanship for one year from date of shipment.

In the event of such defects, the Seller's only obligation shall be the replacement or the cost of the defective goods, themselves, excluding, without limitation, labor costs, which are or may be required in connection with the replacement or reinstallation of the goods. This warranty is the Seller's sole obligation and excludes all other remedies or warranties, express or implied, including warranties of merchantability and fitness for a particular purpose, whether or not purposes or specifications are described herein. This Warranty expressly excludes any and all incidental, special and/or consequential damages of any nature. Seller further disclaims any responsibility for injury to person or damage to or loss of property or value caused by any product which has been subjected to misuse, negligence, or accident; or misapplied, or modified or repaired by a person or persons not authorized by the Seller or which have been improperly installed.

#### Application Solution 105

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For additional information and to order our V-Series or any other Carling product, please contact a Carling Technologies Technical Customer Service Rep:

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