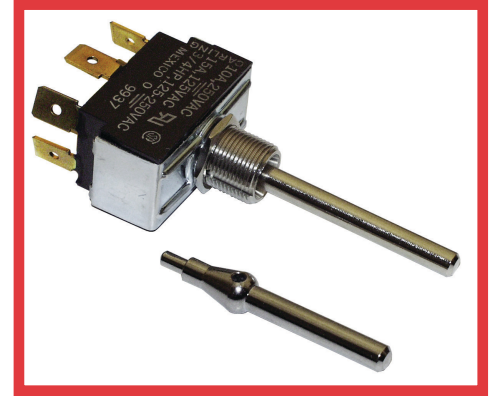


Application Solution 109:

F & G-Series Toggles "The Shape Of Success"

The Challenge:

A major manufacturer of industrial paint sprayers contacted Carling Technologies to gauge our interest in modifying the length and shape of the bat style actuators used on our single and double pole F and G-Series Toggle switches. Their present supplier was struggling with long lead times, price increases and poor service. The manufacturer, a current customer of Carling, was familiar with our expertise in design and tooling and surmised that Carling could be a viable solution to their problems. The specifications called for custom shaped 1 and 2 inch bat style toggles with Chromvet alloy plating. In addition, this project challenged our Carling design team to develop a switch to meet the stringent 28VDC load requirements for this application.



The Solution:

New tooling was designed and produced to not only lengthen the switch's toggle, but to also add symmetry from the top to the bottom of the bat to accommodate the custom panel design for the sprayer product. The customer absorbed the tooling costs through amortization of the piece price over a 1-year period. Carling had tested several different electrical contact combinations at our in-house test lab, before finally settling on a design combination suitable for 28VDC.

The Results:

These modified toggles gave this industrial sprayer manufacturer the shape, length and load carrying characteristics required for seamless integration into their product without the need for costly design or tooling changes. Additional bonuses were the savings realized through Carling's competitive pricing, and the improved service levels provided by Carling Customer Care and our manufacturer's representative. This customization project resulted in a two-year contract for Carling, for brand new business taken at our competitor's expense. This sprayer manufacturer now purchases approximately 45K pieces of these modified F and G-Series toggle switch per year.

Applications:

Potential markets for this F & G-Series toggle include: Appliance, Dental, Factory Automation, Medical, Audio Visual Equipment, Marine, Transportation and sundry other applications as well.

Application Solution 109

November 3, 2003

For additional information and to order our modified F&G-Series Sealed Toggle Switches, please contact a Carling Technologies Technical Customer Service Rep:

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mail Carling Technologies, Inc., 60 Johnson Avenue, Plainville, CT 06062-1177

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.



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Innovative Designs. Powerful Solutions.