

# C&K<sup>®</sup>



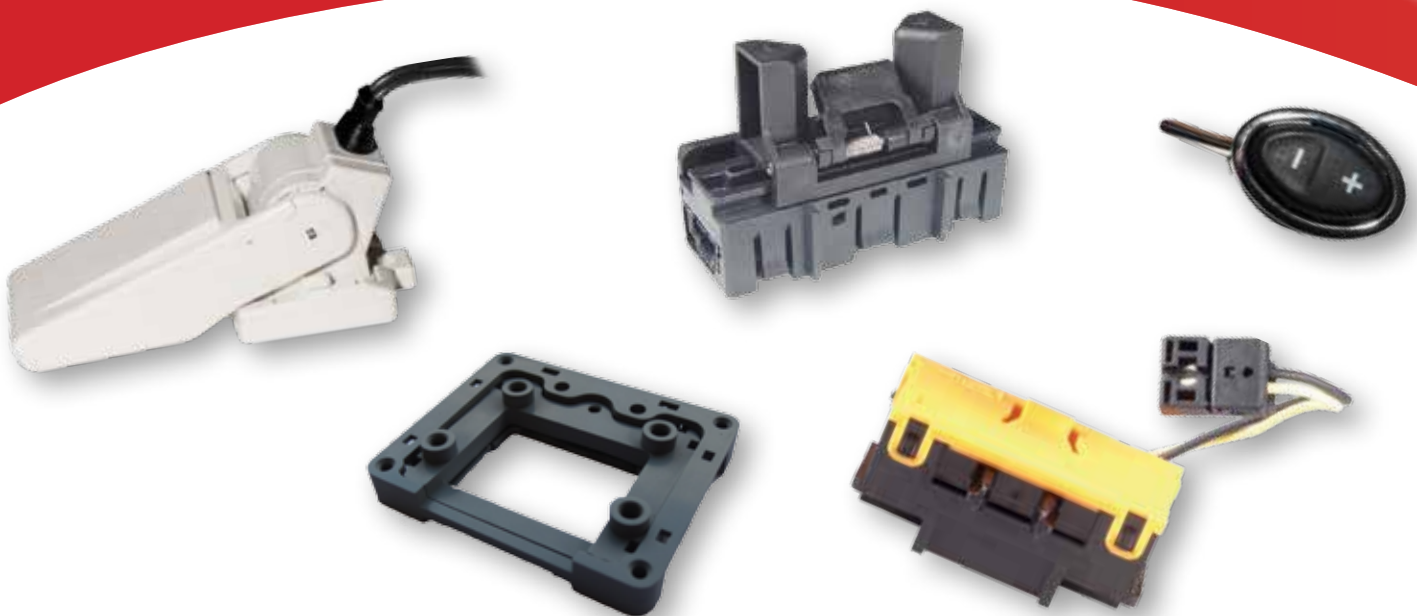
## **MODULES AND SPECIALTY SWITCH ASSEMBLIES**

[www.ck-components.com](http://www.ck-components.com)



## *Designing Technology into Solutions*

C&K Components has been providing innovative customer solutions for over 50 years. C&K was founded by two MIT Engineers with the guiding principle that superior products and customer value, start with superior designs utilizing the highest quality materials. With its world wide manufacturing, engineering and sales support, C&K is focused on delivering customer satisfaction with superior products, process and services. C&K pioneered the design and development of miniature switch products, and has transformed into the leading supplier of new switching, and electronic component technologies. Through close partnerships with our customers, C&K continues to expand its offering to fully integrate our core switch products, into customer specific interface solutions.



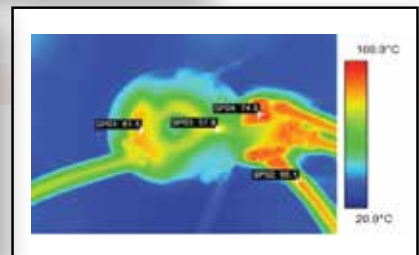
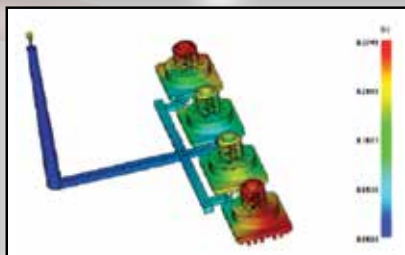
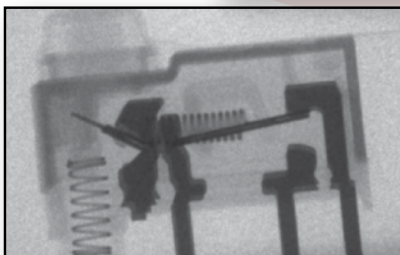
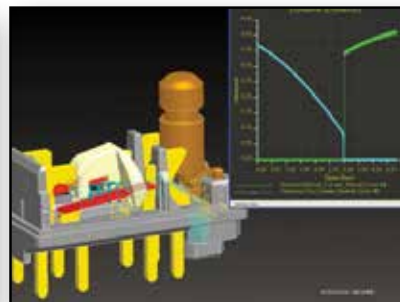
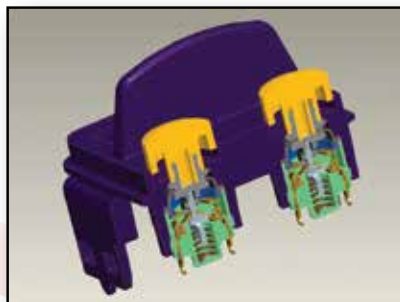
# Customer Knowledge

C&K has partnered with the leading OEM's in the automotive, industrial, transportation, and medical industries to develop innovative modules and switch assemblies. Through these partnerships, C&K has built an extensive industry and application knowledge to solve the most difficult design challenges, and by utilizing the latest development and manufacturing techniques, has helped create customer value by reducing the development to production life cycle. C&K is ISO 9001 and TS16949 certified in all manufacturing locations, with intimate knowledge of DFMEA, PPAP, and Six Sigma techniques to ensure customer needs are exceeded.

# Engineering Capabilities

Our process starts by listening to our customers and the challenges they face integrating C&K switch products into their end products. Our trained sales and engineering teams work closely with our customer's product design teams to integrate our switch knowledge, into cost effective model and assembly solutions.

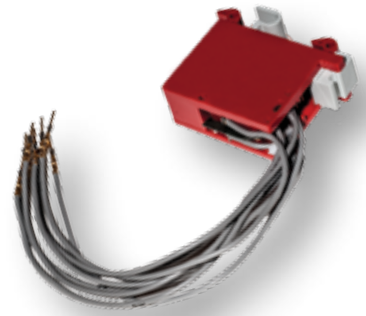
- C&K maintains regional design centers in Newton MA USA, Dole France, and Huizhou China to service your needs. C&K offers extensive and quick turn prototype services.
- Our analytical tools include: 3-D CAD modeling, mold flow analysis, FEA, dynamic motion analysis, high speed photography, fixed and dynamic X-ray, thermal imaging, SEM / FTIR, sound chamber and force / displacement tester.



# *Designing Switches into Modules and Assemblies*



C&K produces thirteen basic switch types including snap-acting, tactiles, pushbuttons, slide and detect switches ranging from low current to high voltages. We draw from our expertise of these core switching technologies to design and manufacture modules and assemblies that meet the standards of our customers. We are experts at integrating our switches into attractive and functional packages that assemble neatly and rapidly into your finished products. Our devices include the decoration, lighting, supplemental electronics, and connections that you specify. C&K refines the feel and controls the sound of the product to suit your preferences.



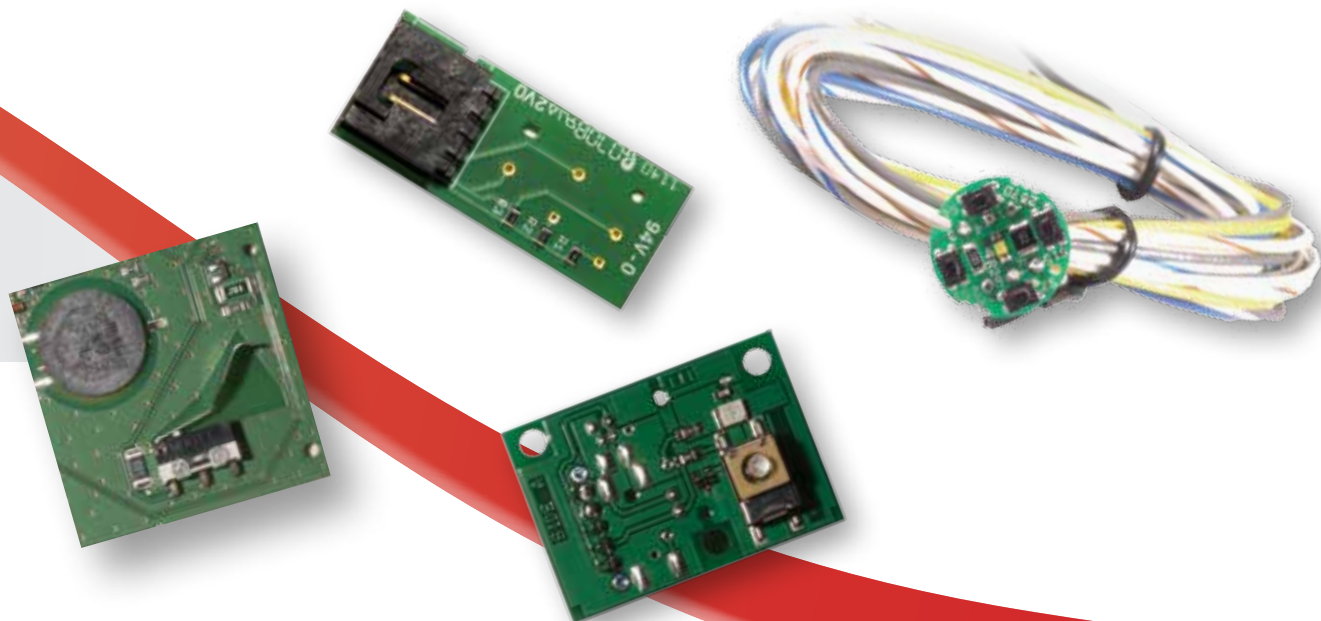
## *Multi-function, Multi-Axis Switching*

If your application calls for multiple switching functions, C&K will integrate our variety of switches into a single, innovative, and logical assembly for you. We are experts at integrating our switches plus your electronics into efficient and compact modules that will enhance the user experience.



# *Integrating Switches and Electronics*

C&K will package your circuitry, and our switches, from simple to complex into an assembly.



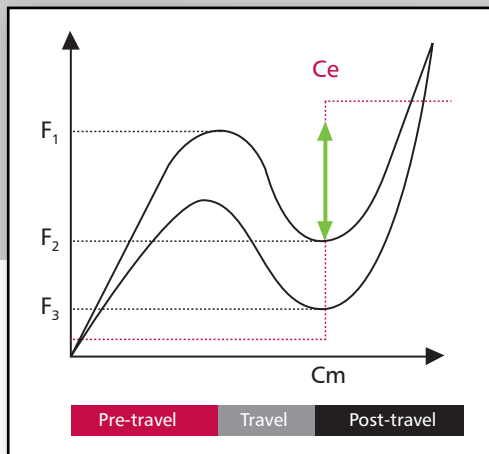
## *Decorative Solutions*

C&K is skilled at incorporating custom graphics, logos, and textures and finishes onto the critical surfaces that are important to the end user. We use two-shot molding, paint and laser etch, pad printing, and plating to make those surfaces stand out.



# Feel and Sound

At C&K we specialize in providing the precise feel and haptics that meet your requirements, including sound tunable tactile switch products.



# Lighting

C&K has extensive experience with backlight accenting and light piping to enhance your product appearance. We also build stand alone automotive and transportation lighting fixtures and assemblies, including in-house molding of the critical lens component.



# Component Fabrication

C&K has extensive in-house component capabilities. We manufacture our own insert and injection molded parts, stamped parts and lead frames to complement our industry leading switch portfolio.



# Connections

C&K provides complete wire harnesses, terminated wires, integrated connectors, or header pins to connect our devices to your finished product. Our capabilities include automatic solder and crimping attachments and testing to ensure the highest level of quality



# Sealing

Let C&K utilize our experience in developing and manufacturing sealed switched to help you seal your assembly from the elements.



## C&K SALES SUPPORT

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Please visit [www.ck-components.com](http://www.ck-components.com) to view C&K's full product offering and list of partners and distributors. The "Ask a specialist" function on the website allows direct contact to each C&K product manager to leverage your C&K product knowledge.

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