

A photograph of three surgeons in an operating room, wearing blue scrubs, masks, and hairnets. One surgeon in the center is wearing a head-mounted display (HMD) with a camera. They are focused on a surgical site. A large, circular surgical light is visible in the background. The image has a blue color grade and semi-transparent geometric overlays.

Lifesaving Technology Meets Standex Performance

**Innovation Powered
by Collaboration**



Standex Electronics worked with an **electrosurgery manufacturer** to develop a reed relay meeting the voltage, current, frequency and reliability required for this challenging medical application.

The electrosurgical generator powers the scalpels, forceps and other electrodes that are used to coagulate, cut, ablate and desiccate tissue in the operating room. These distinct objectives are obtained by varying the voltage, frequency and electrode configuration. In all cases, electrical isolation and reliability are essential requirements in the operating room environment.



In this case, the electrosurgery manufacturer needed a reed relay that met specific requirements for:

- Creepage distance
- Frequency
- Current
- Voltage
- Isolation

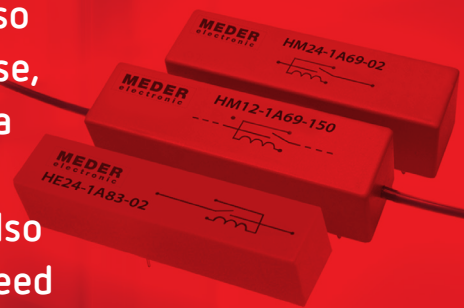
Breakdown voltage and isolation resistance are critically important in this particular medical application. The electrosurgical generator's isolation from earth and other operating room equipment is critical to patient safety to eliminate the dangers of electrocution and unintended burns.

Standex Electronics delivered a customized reed relay that met all the general requirements of the IEC60601-1 medical electrical equipment standard, and also the requirements specific to the electrosurgical application.

Key Support

Key to making the project a success was working closely with the medical company. Standex Electronics treats every project as a one-on-one collaboration. Medical equipment companies know their products and requirements best. Standex knows their products and capabilities best. Working closely together is a win-win for both companies. In this case, multiple sample parts were designed and built for evaluation and testing. The electrosurgery manufacturer evaluated the parts and determined which worked best in the application.

Standex Electronics' product diversity was also a benefit for this medical company. In this case, a high-voltage optocoupler was also used in a product's communication channel to provide the required electrical isolation and safety. Also available are various type of reed switches, reed sensors, Hall sensors and power magnetic products.





Success

Working with Standex combines the responsive service of a small company with the technical and financial resources of a large company. A small team was assembled to work with the electrosurgery manufacturer, understand their needs, propose solutions, and provide support from samples to manufacturing. Simultaneously, the economies of scale, global footprint and support services of a large company are available. It's the best of both worlds.

Standex Electronics has a commitment to absolute customer satisfaction through a partner, solve, and deliver[®] approach. With a global organization that offers sales support, engineering capabilities, and technical resources worldwide – we implement customer-driven innovation that puts the customer first.

If your application requires one of our standard relays and sensors from our catalog, that's clearly the best approach and the quickest solution to satisfying your design requirement. However, more than half of our shipped relays and sensors are from special requirements. Since many switching and sensing requirements are unique, working with customers on their special applications is expected.

Because at Standex, "custom is standard."



Scan for more information
on Medical applications.

PARTNER | SOLVE | DELIVER



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