



Application Alley

PARTNER | SOLVE | DELIVER

Reed Switches

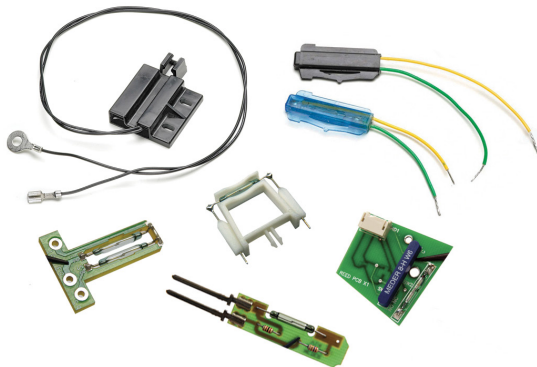
Why Standex-Meder Reed Switches?



Custom
Engineered
Solutions for
Tomorrow

Reliability: Improving performance, reducing wear, customizing features

It's no secret: available in hundreds of sizes and shapes, crucial in dozens of industries, and equipped to survive billions of operations in even the most extreme environments, the Reed Switch can outmatch and outlast many of its competitors. It continues to grow in popularity as the core component in relays and sensors for switching, detecting, and counting applications across the globe. Why wouldn't you want Standex-Meder's advanced reed switch technology for your own products?



As a technology, the Reed Switch is unique. At its core is a glass-to-metal hermetic seal, which encloses the two ferromagnetic reeds in a glass envelope and protects them from the outside environment. As a result of this simple construction, the Reed Switch can operate in even the harshest conditions. In addition, it requires no direct contact when part of a reed sensor.



Standex-Meder rigorously tests each Reed Switch to ensure the quality of our manufacturing processes and resulting products. In addition, we can also customize any switch to your own design, including many value add services such as PCB assembly, epoxy sealing, conformal coating, and wire termination.

As new, improved technologies create the demand for more sensing applications, it's time for a switching solution that makes sense—for product longevity, for power efficiency, and for your unique needs!



Why Standex-Meder Reed Switches

- Simple structure
- No wearing parts
- Reliable switching for billions of operations
- Ability to switch up to 10,000 Volts
- Ability to switch or carry as low as 10 nano-Volts without signal loss
- Ability to withstand shocks up to 200 Gs
- Contact resistance (on resistance) typical 50-100 milliOhms (mΩ)
- Ability to switch or carry as low as 1 femto-Amp without signal loss
- Ability to withstand vibration environments of 50 Hz to 2000 Hz at up to 30 Gs
- Extensive parametric testing

- Hermetically sealed to perform in extreme and harsh environments
- Draws no power in the normally open state
- Ability to switch currents up to 5 Amps
- Ability to switch or carry up to 7 GHz with minimal signal loss
- Isolation across the contacts up to $1 \times 10^{15} \Omega$
- Optional latching feature
- Can operate within 100 μs
- Standex-Meder offers pull-in and drop-out measurement in milliTesla
- Ability to operate over extreme temperature ranges

Parameters to Consider When Choosing a Reed Switch

- Pull-in (the points where the contacts close)
- Drop-out (the points where the contacts open)
- Hysteresis
- Contact resistance
- Dynamic contact resistance
- Switching voltage
- Switching current
- Carry current
- Stray capacitance
- Common mode voltage
- Switching wattage
- Breakdown voltage
- Insulation resistance
- Dielectric absorption

Where reed switches reside

- Reed sensors
- Reed relays
- Proximity sensors

Component Corner (Expert Insights) Paul Linsley, Product Manager Standex-Meder Engineer

“ Compared to mechanical switches, the reed switch offers our customers many advantages. It requires no switching load and can sense effectively from up to 44 mm away. In addition, with a reed switch you can adjust the hysteresis to fit your specific application. Working with mechanical switches, you're limited to differential travel. With no wearing parts, the reed switch can also outlast the mechanical competition, offering an unusually long life in the billions of operations. ”

- Fluid Sensors – Flow, Liquid Level and Conductive

Industry applications

Automotive, Aviation, Military, Medical, Test and Measurement, Telecommunications, Electronics, Industrial, Power, Appliances, Transportation, Alternative/Solar Energy, Lighting/LED, and others

Find out more about our ability to propel your business with our products by visiting www.standexmeder.com or by giving us a hello@standexelectronics.com today! One of our brilliant engineers or sales leaders will listen to you intently.



About Standex-Meder Electronics

Standex-Meder Electronics is a worldwide market leader in the design, development and manufacture of standard and custom electro-magnetic components, including magnetics products and reed switch-based solutions.

Our magnetic offerings include planar, Rogowski, current, and low- and high-frequency transformers and inductors. Our reed switch-based solutions include Meder, Standex and OKI brand reed switches, as well as a complete portfolio of reed relays, and a comprehensive array of fluid level, proximity, motion, water flow, HVAC condensate, hydraulic pressure differential, capacitive, conductive and inductive sensors.

We offer engineered product solutions for a broad spectrum of product applications in the automotive, medical, test and measurement, military and aerospace, as well as appliance and general industrial markets.

Standex-Meder Electronics has a commitment to absolute customer satisfaction and customer-driven innovation, with a global organization that offers sales support, engineering capabilities, and technical resources worldwide.

Headquartered in Cincinnati, Ohio, USA, Standex-Meder Electronics has eight manufacturing facilities in six countries, located in the United States, Germany, China, Mexico, the United Kingdom, and Canada.

For more information on Standex-Meder Electronics, please visit us on the web at www.standexmeder.com.

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