



# Application Alley

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## Appliance - Reed Sensor

*Coffee Maker Components*

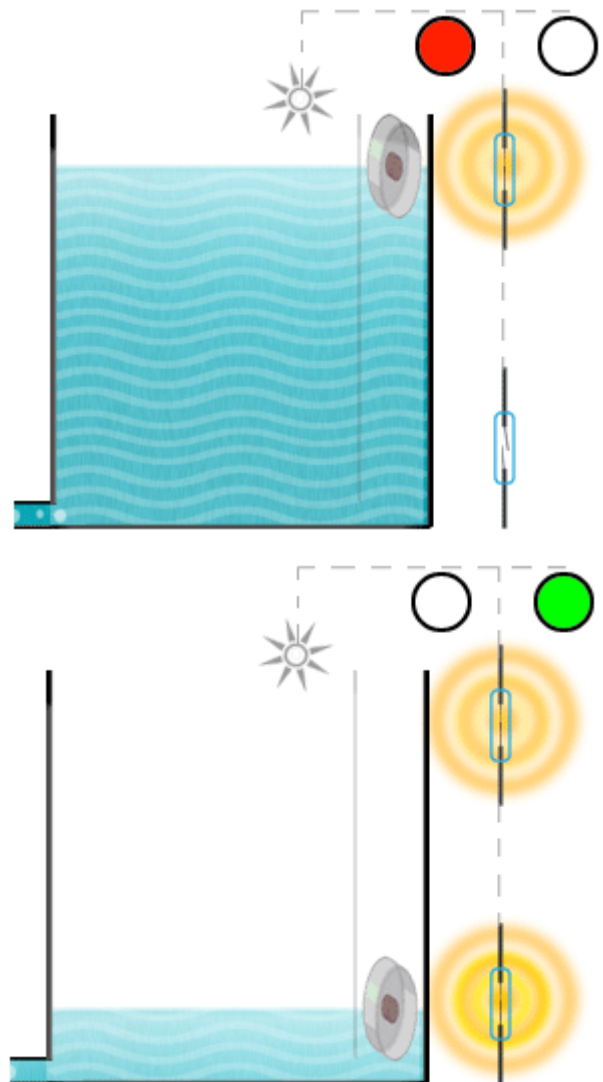
Very often it is the smallest things in life which have the greatest impact. We take for granted that our routines will go smoothly. For instance, you wake up in the morning; pour water in your coffee maker, and it measures out just the right amount of coffee. In a few minutes you expect to be enjoying a nice cup of hot coffee. You may not consider how the machine actually works. You quietly depend on an equipment manufacturer to make it work perfectly each day. This is where Standex-Meder Electronics, a manufacturer of precise, reliable, and long-lasting miniature switches, sensors and relays, comes into the picture. Standex-Meder Electronics may not make the actual beans for coffee, but they make certain you get the java you need to start the day off the way you need.

In order for designers and manufacturers of coffee makers (and other electronic equipment) to make reliable products they must incorporate the best quality materials and components. That is why leading equipment designers and manufacturers have partnered with Standex-Meder for their supply of electronic components.

Reed sensors are one of those components that work behind the scenes to make sure a coffee maker functions properly. Sensors check the level and position of various working elements. For example, they check on the status of accessories such as the water tank, milk container, drip tray, grounds container, milk foam attachment, and the cap (capsule machine). They detect the level of water and milk in the tanks, when the grounds container must be emptied, and if there is leakage in the system. Sensors can also be used as an On/Off Switch without creating any noise during the switching process. Hermetically sealed sensors offer millions of reliable operations, require minimal space, are

corrosion resistant, and present a cost effective solution for today's coffee maker manufacturers.

Standex-Meder has been developing customized solutions for leading coffee maker manufacturers that specifically adapt sensors and float magnets for their products. In many of the newer coffee machines without permanent water connections for commercial or domestic applications, a low water indicator lamp signals the minimum water level.



To accomplish this task a permanent magnet is built into the float housing, which is installed in a removable plastic water tank. A Reed Switch requires either a permanent magnet or magnetic field in order to activate the switch. Magnets are available in a variety of different sizes, magnetic materials, and shapes such as cylindrical, rectangular, disk or ring form. In the case of coffee machines with permanent water connections, the same sensor approach applies except for the fact that the indicator light is removed and a water-switching valve is added. Generally speaking, this approach works well for all similar fluid level applications.



### Energy Efficiency

As far as energy efficiency, the answer is always the same for any industry/application with regard to all reed switch-based products. They

draw no power in their normally open state, unlike a solid state (Hall Effect Sensor), which is always drawing some power. Also, reed switch-based products have no wearing mechanical parts like an electromechanical type switch/sensor so it can reliably switch millions of operations. Reed switch-based products are highly suitable for portable and battery powered devices.

### Commitment and Experience

Standex-Meder Electronics is committed to absolute customer satisfaction and customer-driven innovation. This is possible because of their global organization that offers premier sales support, engineering capabilities, and technical resources worldwide. Their expertise has been enhanced by their approach of never shying away from customer-specific product development needs. Actually, they are driven by the challenges their customers bring to them. With an expert engineering staff and cutting-edge manufacturing capabilities, they are well-equipped to produce unique solutions for just about any environment or application.

Find out more about our ability to propel your business with our capabilities and solutions by visiting [www.standexmeder.com](http://www.standexmeder.com). Give us a [hello@standexelectronics.com](mailto:hello@standexelectronics.com) today! One of our engineers or sales leaders will engage your team.



## About Standex Electronics

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

Our magnetics offerings include planar, current sense, and conventional low- and high-frequency transformers and inductors. Reed switch-based solutions include Meder, Kent, and KOFU 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 range of product applications in the transportation, automotive, medical, test and measurement, military and aerospace, aviation, HVAC, appliance, security and safety, and general power and industrial markets.

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.

For more information on Standex Electronics, visit us on the web at [standexelectronics.com](http://standexelectronics.com).

### Contact Information:

#### Standex Electronics

World Headquarters  
4538 Camberwell Road  
Cincinnati, OH 45209 USA

#### Standex Americas (OH)

+1.866.STANDEX (+1.866.782.6339)  
[info@standexelectronics.com](mailto:info@standexelectronics.com)

#### Standex Electronics Asia (Shanghai)

+86.21.37606000  
[salesasia@standexelectronics.com](mailto:salesasia@standexelectronics.com)

#### Standex Electronics Europe (Germany)

+49.7731.8399.0  
[info@standexelectronics.com](mailto:info@standexelectronics.com)

#### Standex Electronics India (Chennai)

+91.98867.57533  
[kkasaragod@standexelectronics.com](mailto:kkasaragod@standexelectronics.com)

#### Standex Electronics Japan (Kofu)

+81.42.698.0026  
[sej-sales@standex.co.jp](mailto:sej-sales@standex.co.jp)

