





Reed sensors are a great fit for large and small appliances. They are rugged and versatile; they use only two wires; and they sense moving parts without physical contact.

Consider the recent experience of a refrigerator manufacturer. In addition to traditional swing-open doors, their latest refrigerator also had sliding drawers. The appliance needed to sense when the drawers were open so it could turn off the cooling system.





To meet the challenge, the manufacturer's design team worked closely with Standex Electronics to define the problem, propose possible solutions, test prototypes, and implement the best solution. While the refrigerator manufacturer provided product knowledge and requirements, Standex provided sensing and packaging expertise. Important considerations included:

- · The type, shape and size of the activating magnet,
- The orientation of the magnet to the reed sensor,
- The materials and mounting methods of the sensor package, and
- The implementation of electrical connections in the sensor package.

Collaboratively evaluating these competing tradeoffs resulted in a highly optimized sensor product. The design process itself was also highly optimized. Attention to detail, a close working relationship, and rapid turnaround of prototypes were key to quick and thorough resolution of issues.

Success

The final result was a Standex-designed sensor with a custom housing and an integrated connector. In addition to meeting the baseline sensing requirements, the design easily met all the mechanical and electrical requirements. Plus, the reed sensor's hermetically sealed construction contributed to its reliability in the cold and wet environment.







Partnership

This long-term partnership—from the first steps of design to volume production—provides extra value to both companies. In this case, the refrigerator manufacturer's design team had worked with Standex on previous projects with positive results, establishing trust and accelerating the design process. We are excited to see what they do next!



Scan for more information on Appliance applications.



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