MEDER electronic's Extensive Reed Sensor Offerings Meet Tough Application Requirements

Designing a sensing solution that offers the lowest possible cost, highest reliability with the least possible energy consumption can be a complex process which involves many factors. MEDER electronic has been designing custom and standard sensing solutions that meet tough design requirements in nearly every industry for approximately 30 years utilizing their global technical expertise and specialized proprietary magnetic mapping equipment.

The Reed Sensor is a suitable alternative to inductive sensors. Its design uses the basic reed switch component which is simple and cost effective, yet diverse in it's application use. MEDER offers the most extensive selection of custom and standard reed sensor packages in a variety of mounting styles and power configurations using both MEDER and OKI Reed Switch Products.

Proximity, Position, End-Limit Detection				
Mounting Style	**Sensor Series**	**Length Range(mm)**	**Contact Options**	**Other Options**
Cylindrical Panel Mount	MK03, MK14, MK18, MK20/1	10-25	SPST-NO, SPST-NC & Changeover	
Rectangular Screw Flange Mount	MK02, MK04, MK05, MK09, MK13, MK12, MK21	23-32	SPST-NO, SPST-NC & Changeover	Sabotage Loop
Surface Mount (Bare Glass)	MK23	7-21	SPST-NO, SPST-NC & Changeover	
Surface Mount (Molded)	MK01, MK15, MK16, MK17, MK22, MK24, MMS	2.8-16	SPST-NO, SPST-NC & Changeover	Latching
Threaded Panel Mount	MK07, MK11	25-39	SPST-NO, SPST-NC & Changeover	
Through Hole PCB	MK02, MK06	12-24	SPST-NO, SPST-NC & Changeover	Latching, Sabotage Loop

Performance	
Contact Parameters	
Rated Power (Watts)	up to 100
Switching Voltage (Volts DC/AC)	0 to 1,000
Breakdown Voltage (Volts DC)	200 to 5,000
Switching Current (Amps)	0 to 1.0
Carry Current (Amps)	0 to 2.0
Contact Resistance (milliOhms)	< 100
Isolation Resistance (Ohms)	up to 10E10
Operating Time (milliseconds)	< 1.0
Release Time (microseconds)	< 50
Capacitance (picoFarad)	0.2 typical
Operating temperature	-40 to +200°C

Features

Alternative to inductive sensors
Dynamically tested contact
Hermetically sealed protected from environment
No external power required to operate
Millions of reliable operations
Operate in very cold and hot temperatures
RoHS compliant
Sensor magnet not affected by its environment
Small size 2.8mm and up
Various mounting options

Industries & Applications	
Industry	**Application**
Automotive	ABS, Cruise control, Dashboard controls, Doors, Fluid Level, Power steering, Power windows, Seatbelts, Sunroof
Construction & Security	Conveyer belts, Elevators, Emergency lamps, Hoists, Lifts, Security cameras, Security gates, Security alarms
Electronics & Communications	Phones, Laptops, Copiers, Printers, Game controllers
Household & Commercial Appliance	Coffee machines, Dish washers, Dryers, Food & Beverage equipment, Ice Machine, Stoves, Vacuum cleaners, Washing machines
HVAC & Refrigeration	Air conditioners, Blowers, Condensate pump, Refrigerators, Motorized ducts/vents
Industrial	Human/machine interfaces, Faming equipment, Hydraulic cylinders, Mining equipment, Motion controllers
Instrumentation	Anemometers, Rain buckets, Smart meters (gas, water)
Medical & Dental	Hearing aids, Pacemakers, Patient mobility equipment, Patient monitoring devices, Handheld surgical instrumentation