

MEDICAL

CUSTOM SWITCHING & SENSING SOLUTIONS

*Lifesaving Technology Meets Standex Performance in a
Reliable and Safe Manner*

MEDICAL

SWITCHING SOLUTIONS WITH SUPERIOR FUNCTIONALITY, LONGEVITY AND RELIABILITY

TREATMENT & LIFE SUPPORT EQUIPMENT

- ELECTROSURGERY
- INCUBATORS
- LASER DEVICES
- HEARING AIDS
- VENTILATORS
- NEBULIZERS
- DRUG PUMPS
- DIALYSIS EQUIPMENT
- HAND-POWER DRILLS
- PHOTOTHERAPY DEVICES
- RESPIRATORY HUMIDIFIERS
- WIRELES AND LOW ENERGY MOBILE DEVICES
- HIGH FREQUENCY ELECTROSURGICAL UNIT
- MINIMALLY INVASIVE SURGICAL SYSTEMS
- AUTO EXTERNAL DEFIBRILLATORS
- MONOPOLAR OR BIPOLAR CUTTING ELECTROSURGICAL UNIT
- AESTHETIC MEDICINE
- REGENERATION DEVICE
- ULTRASONIC SURGERY
- ULTRASONIC GENERATORS

RELAYS AND OPTOCOUPLERS

- LONG LIFETIME
- HIGH RELIABILITY
- IDEAL RF CHARACTERISTICS
- HIGH VOLTAGE ISOLATION
- HIGH CREEPAGE/CLEARANCE
- LOW LEAKAGE CURRENTS
- FOLLOWING THE NORMS IEC 60601-1, IEC 61010, AND IEC 60255-27 E
- HIGH COIL RESISTANCE FOR LOW CONSUMPTION
- ELECTROSTATIC SCREEN AND MAGNETIC SHIELD OPTIONAL

ELECTRICAL & MECHANICAL BENEFITS

- VERY SMALL SIZE AND PROFILE
- MINIMAL POWER CONSUMPTION
- PERFECT ISOLATION BETWEEN CONTROL & LOAD CIRCUIT
- LOW AND HIGH LEVEL LOAD SWITCHING POTENTIAL
- LONG LIFE, BILLIONS (10⁹) OF OPERATIONS (LOAD RELIANT)
- MULTI-POLE CONFIGURATIONS UP TO 8 POLES
- FORM A, B, C, AND E VERSIONS
- STABLE LOW CONTACT RESISTANCE <150 mΩ
- HIGH FREQUENCY SIGNALS
- LOW THERMAL OFFSET VOLTAGE <1μV
- HIGH INSULATION RESISTANCE >10¹⁴ Ω
- ABILITY TO SWITCH UP TO 10,000 VDC
- BREAKDOWN VOLTAGES/DIELECTRIC STRENGTH UP TO 15 kVDC
- CARRY CURRENTS TO 5 AMPS CONTINUOUS (10 AMPS PULSED)
- SHOCK RESISTANT TO 100 G, VIBRATIONS 50-2,000 Hz AT 20 G
- HERMETICALLY SEALED SWITCHES
- OPERATE TIMES IN THE 500 μS TO 3 mS RANGE
- SUITABLE FOR HIGH DENSITY MATRIX ASSEMBLY
- WIDE ARRAY OF COIL RESISTANCES
- NUMEROUS PACKAGE STYLES AND PIN-OUTS

SENSORS

- LIMIT SWITCH
- TILT POSITION
- SPEED SENSOR
- ON/OFF SWITCH
- ANGLE POSTION
- TABLE LINEAR POSITION
- SPEED/DIRECTION SENSOR
- SURGICAL BOOM POSITION
- OPEN/CLOSE DETECTION
- DEVICE WAKE-UP FUNCTION
- COUNTERWEIGHT POSITION
- JOYSTICK AND CONTROLS
- FLUID LEVEL/FLOW DETECTION

MOBILITY ASSISTIVE EQUIPMENT

- HOSPITAL BEDS
- PATIENT LIFTS
- ELECTRIC SCOOTERS
- MOTORIZED WHEEL CHAIRS
- TRACTION EQUIPMENT
- SURGICAL TABLES
- SURGICAL BOOMS

DIAGNOSTIC EQUIPMENT

- X-RAY MACHINE
- ULTRASOUND
- LAB ANALYZERS
- ELECTROCARDIOGRAM SCANNER
- COMPUTED TOMOGRAPHY SCANNER
- MAGNETIC RESONANCE IMAGING SCANNER

KEY COMPONENTS



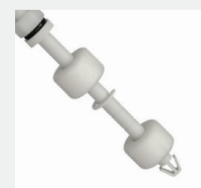
REED PROXIMITY SENSOR

Reed proximity sensor can detect engagement of pedals, door position, or safety locking systems. Draws no power in its normally open state.



SMD REED SENSOR

Reed switch and over molded reed switches available to operate on/off instruments, compartment openings, and alarm systems.



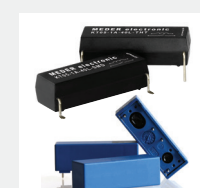
REED FLOAT SENSOR

The LS04 Series Reed Float Sensor alerts when the liquid level is at a critical low point or multiple points as needed.



ANGLE POSITION SENSOR

Angle position sensor to detect rotation of linkages and brackets.



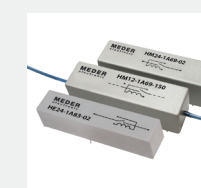
HIGH VOLTAGE TO 1 KVDC

KT, LI, and BE series offer high isolation up to 7 kVDC and switching up to 1 kVDC. High creepage and clearance.



HALL SPEED SENSOR

Can measure the speed of mixers and other laboratory equipment. Can be used for tamper resistant indication systems.



HIGH VOLTAGE TO 10 KVDC

The H, HE, and HM series can switch up to 10 kVDC and provide up to 20 kVDC isolation. Switching currents up to 3 A and carry currents up to 5 A.



OPTOCOUPLERS

Optocouplers are for specific High Isolation and Intrinsically Safe (ATEX & IECEx) applications. Galvanically isolates low-voltage devices from high-voltage circuits.



Since many switching and sensing requirements are unique, working with customers on their special applications is expected.



A Standex **Electronics** Business