

An Engineered Solution Provider and Manufacturer of Custom Electronic Mechanical Magnetic Components and Sub-Assemblies

Fluid Level, Proximity, Motion and Current Sensors



Custom Electronics for a Shrinking World

Before consumer, medical and industrial products can get smaller and smarter - the components within them must be reduced in size. Standex Electronics is leading the way by reducing the footprint of custom electronic components while increasing their capabilities. Our GR150 magnetic reed switch is the smallest in the world – yet it retains very tight performance characteristics. In fact, we manufacture the widest range of magnetic Reed switches with the tightest sensitivity parameters. In addition to sensors, we also manufacture custom transformers, power supplies, chokes, antenna coils and other electronic components used in many applications and industries.

Magnetic Sensor Technology

- Used in magnetic based proximity, motion and fluid level sensors
- Hall effect and variable reluctance technologies for custom sensor designs available
- · Proven in automotive, domestic appliances, process control equipment, telecommunications, office equipment, security systems, construction equipment and more.
- · Fluid level sensors monitor the level of fuel, windshield washer fluid, coolant, brake fluid, oil, DI water, HVAC condensate, boiling water and viscous food processing fluids.

Conductive Sensing Technology

- Basic sensors to "turn key" sensors with switched output engineered to meet specific customer requirements
- Patented "bias ring" eliminates the issues of sensitivity changes which can occur due to buildup of conductive materials near the sensors
- · Applications include soap levels in clothes or dish washers, sensing food syrup levels in dispensing equipment, sensing basement flood water or the backup of fixed or mobile septic systems

Inductive Sensing Technology

- Detect metallic objects without touching them used for proximity sensing applications such as speed sensors
- Each project designed to exacting customer standards including the ability to withstand harsh environments
- · Proven in appliance safety applications with thousands of cycles, and extreme "under hood" automotive applications

Current Sensing Technology

- Standard products like CSB series plug-in solutions for P.C. board mounting to custom designs to address individual customer requirement
- · Can be configured for extreme conditions and hazards including temperature, radiation,, humidity and more
- Proven in consumer, commercial and industrial applications like food service equipment, circuit breakers, home and commercial appliances, and more.













Proximity and Motion Sensors Ultra Miniature Magnetic

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Ultra Miniature Proximity and Motion Sensors - Magnetic Technology

A world leader in the manufacturing of magnetic Reed Switches, Standex offers the widest range of sizes with the tightest sensitivity parameters – including the world's smallest magnetic Reed Switch. This proven technology forms the basis of our broad line of magnetic based proximity and motion sensors. Our products are used in medical devices such as pacemakers and hearing aids, as well as automotive, domestic appliances, process control equipment, telecommunications, office equipment, security systems, construction equipment and more.



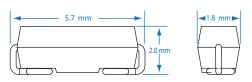
R12575 Series

- Proximity sensor with a 9.6mm X 2.5mm body
- Switch rated 0.1A/50V/3VA max
- Magnetic Sensitivity from 3 to 15AT
- Form A (normally open) operation



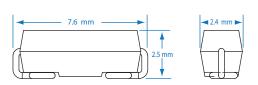
SR4MJ Series

- SMT Proximity Sensor with 5.13mm length body
- Switch rated 0.1A/50V/3VA max
- Magnetic Sensitivity from 3 to 15AT
- Form A (normally open) operation



SR4J Series

- SMT Proximity Sensor with 6.8mm length body
- Switch rated 0.1A/50V/3VA max
- Magnetic Sensitivity from 3 to 15AT
- Form A (normally open) operation



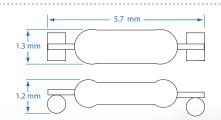


R12584 Series

- Proximity sensor with 12.0mm X 2.5mm body
- · Hi-Rel with extended operating & storage temperature ratings
- Magnetic Sensitivity from 3 to 15AT
- Form A (normally open) operation

GS30745 Series

- · Custom Proximity sensor with 5.8mm body length
- Ultra-sensitive 2/4 AT
- · Design includes magnetic flux concentrators
- Conformally coated
- Form A (normally open) operation





Miniature Proximity and Motion Sensors - Magnetic Technology

SM501 Series

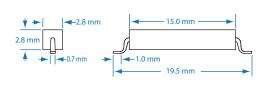
- SMT Reed Switch
- Switch rated 0.5A/100V/10VA max
- Magnetic sensitivity from 7 to 30AT
- Form A (normally open) operation
- Supplied taped and reeled

2.5 mm 18.1 mm



R12476 Series

- Insert molded SMT Reed Switch
- Switch rated 0.5A/100V/10VA max
- Magnetic sensitivity from 7 to 30AT
- Form A (normally open) operation
- Supplied taped and reeled





R12464 Series

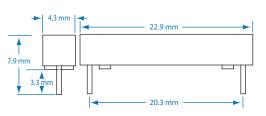
- Insert molded PCB Mounted Reed Switch
- Switch rated 0.5A/100V/10VA max
- Magnetic sensitivity from 10 to 30AT
- Form A (normally open) operation

19 mm 3.6 mm 3.6 mm



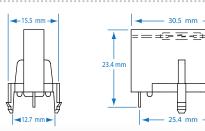
R12459 Series

- Insert molded PCB Mounted Reed Switch
- Switch rated 0.5A/100V/10VA max
- Magnetic sensitivity from 10 to 30AT
- Form A (normally open) operation



R11808 Series

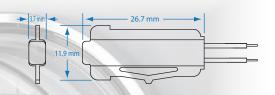
- PCB mounted Reed Switch
- Design lifts switch off PCB surface
- Switch rated 1.5A/200V/50VA max
- Magnetic sensitivity from 10 to 30AT
- Form A (normally open) operation





R12303 Series

- · Miniature snap lock mounting
- Switch rated 0.5A/100V/10VA max
- · Magnetic sensitivity from 10 to 30AT
- · Form A (normally open) operation
- · Wire length as required





Miniature Proximity and Motion Sensors - Magnetic Technology

R12457 Series

- · Cylinder design
- Switch rated 0.5A/100V/10VA max
- · Switch sensitivity 10 to 30 AT
- Form A (normally open) operation
- · Wire length as required



R12465 Series

- General purpose proximity senor
- Switch rated 0.5A/100V/10VA max
- Form A (normally open) operation
- Switch sensitivity 10 to 30 AT
- Operates with B124172 and B12473
- Maximum operate distance of 0.6"

R12466 Series

- General purpose proximity senor
- Switch rated 0.5A/100V/10VA max
- Form A (normally open) operation
- Switch sensitivity 10 to 30 AT
- Operates with B124172 and B12473
- Maximum operate distance of 0.6"

← 15.9 mm **→**



4.8 mm



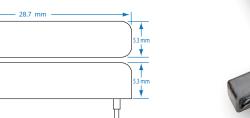
B12472 and B12473 Actuators

- Operate with P/N's R12465 and R12466
- B12472 provides adjustment

- perpendicular to length axis
- B12473 provides adjustment along length axis

R11883 Series

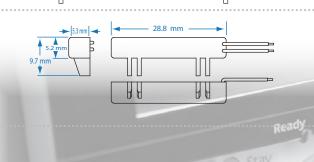
- Miniature proximity sensor
- Switch rated 0.5A/100V/10VA max
- Form A (normally open) operation
- Switch sensitivity 10 to 30 AT
- · Wire length as required





R11883A Series

- · Miniature proximity sensor
- Switch rated 0.5A/100V/10VA max
- Form A (normally open) operation
- Switch sensitivity 10 to 30 AT
- · Wire length as required



Proximity and Motion Sensors - Magnetic Technology

R12075 Series

- Miniature proximity sensor
- Switch rated 0.5A /100V/10VA max
- Form A (normally open) operation
- Switch sensitivity 10 to 30 AT
- · Wire length as required

R12391 Series

- · Flush mount proximity sensor
- · Snap lock mounting
- Switch rated 0.5A/100V/10VA max
- Form A (normally open) operation
- Switch sensitivity 10 to 30 AT
- · Wire length as required

B12392 Series Actuator

- Flush mount/ snap lock mounting
- Operates with R12391 series

R12444 Series

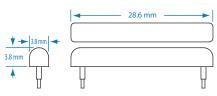
- Flush mount proximity sensor
- Snap lock mounting
- Switch rated 1.5A /200V/50VA max
- Switch sensitivity 20 to 40 AT
- Form A (normally open) operation
- Wire length and termination as required
- Available with 300V/70VA switch

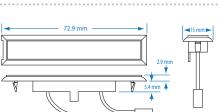
B12427 Series Actuator

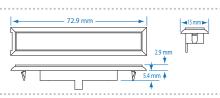
- Operates with R12444 proximity sensor
- Screw mounting
- · Ceramic 8 magnet

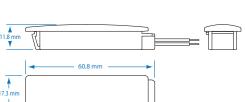
R12454 Series

- Custom proximity sensor
- Snap locking feature
- Switch rated 1.5A/200V/50VA max
- Switch sensitivity 20 to 40 AT
- Form A (normally open) operation
- Wire length and termination as required
- Available with 300V/70VA switch

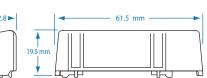




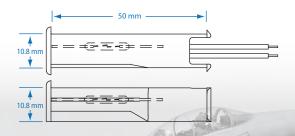










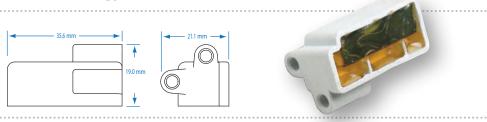




Proximity and Motion Sensors - Magnetic Technology

B12455 Series Actuator

- Operates with R12454 proximity sensor
- · Screw down mounting



R12199 Series

- Custom appliance rotation sensor
- Switch rated 0.5A/200V/10VA max
- Form A (normally open) operation
- Switch sensitivity 7 to 20 AT
- Maximum operating distance 2"
- · Wire length and termination as required

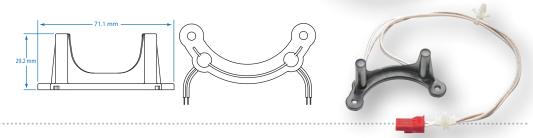
R11737 Series

- Appliance lamp switch assembly
- Switch rated 1.5A/200V/50VA max
- Form B (normally closed) operation
- Switch sensitivity 20 to 40 AT
- Wire length and termination as required
- Available with 300V/70VA switch

15.5 mm 17.8 mm 111.8 mm

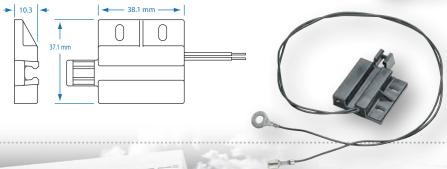
R12355 Series

- Two switch tachometer
- Switch rated 0.5A/200V/10VA max
- Form A (normally open) operation
- Switch sensitivity 10 to 30 AT
- · Wire length and termination as required



R12320 Series

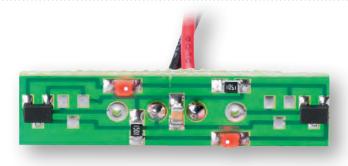
- Safety switch
- Switch rated 1.5A/200V/50VA max
- Form B (normally closed) operation
- Switch sensitivity 20 to 40 AT
- Wire length and termination as required
- Available with 300V/70VA switch



Proximity and Motion Sensors - Custom Magnetic Technology

Custom Hall Effect Position Sensors

- Multiple Switching Points
- Low profile
- Wide range of switching options
- On-board signal conditioning available
- Local LED indication available



Proximity and Motion Sensors - Inductive Technology

Custom Inductive Speed Sensors

- Designed for harsh environments
- Ideal for appliance safety applications
- Wide range of switching options
- On-board signal conditioning available



Custom Inductive Proximity Sensors

- Includes winding designed to specific project parameters
- Circuit board to gather and relay information to the onboard computer and then initiate a particular fault sequence for the "check engine light" diagnostics
- Packaged in custom molding to include a connector
- Fits within the tight space constraints and function in a harsh "under-hood" environment





Fluid Level Sensors - Magnetic Technology

R12468 Series

- External sensor for injection molded bottles
- Form A or Form B operation with separate float
- · Bottom mount with O-ring seal
- Switch rated 1.5A /200V/50VA max
- Mates with Packard P/N 12052641

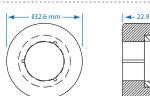
B12469 Series

- Float / magnet assembly operates with R12468 sensor assembly
- · Float locates in the bottle assembly
- Foamed PP
- Specific gravity per application

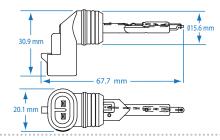
R12481 Series

- External sensor for injection molded bottles
- Form A or Form B operation with separate float
- Bottom mount with O-ring seal
- Switch rated 0.5A/100V/10VA max
- Mates with Packard P/N 12052641

80.1 mm





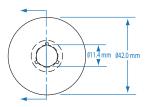




B12482 Series

- Float / magnet assembly operates with R12481 sensor assembly
- Float locates in bottle assembly
- Foamed PP
- Specific gravity per application

→ 25.0 mm →





R11774 Series

- External sensor for injection molded bottles
- Form A (normally open) operation with separate float
- Switch rated 0.5A/100V/10VA max
- Snap lock mounting
- · Integral connector

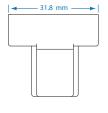
31.4 mm → 31.4 mm → 31.4 mm



R12180 Series

- External sensor for injection molded bottles
- Form A (normally open) operation with separate float
- Switch rated 0.5A/100V/10VA max
- Snap lock mounting
- Integral connector

28.9 mm → 18.4 mm →

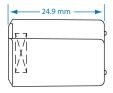




B12450 Series Float

- Float / magnet assembly operates with R11774 and R12180 series sensors
- Float locates in bottle assembly
- · Foamed PP
- Operates with fluid SG at 0.79 min

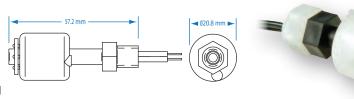






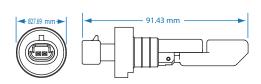
FS100 Series

- Float sensor first used to control condensate within industrial air handlers
- 3/8-16 UNC straight thread and 1/8-27 NPT thread standard
- Optional switches available, rated up to 240VAC, 70VA max switching
- Optional O-rings available
- · Wire length, termination and wire type as required



R12544 Series

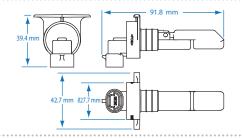
- · For blow or injection molded bottles
- · Side mount design uses separate seal grommet
- Form A (normally open) and Form B (normally closed) operation
- Switch rated 0.5A/100V/10VA max
- · Internal snubber resistor
- Connector meets requirements of Packard Taxi Drawing 12162289 type 101





R12571 Series

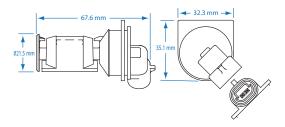
- For blow or injection molded bottles
- Side mount design uses separate seal grommet
- Form A (normally open) and Form B (normally closed) operation
- Switch rated 0.5A/100V/10VA max
- Connector meets requirements of Packard taxi drawing 12162269 type 101





R12431 Series

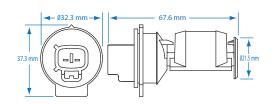
- · For blow or injection molded bottles
- Side mount design uses separate seal grommet
- Form A (normally open) and Form B (normally closed) operation
- Switch rated 0.5A/100V/10VA max
- Internal snubber resistor
- Connector meets requirements of Packard Taxi Drawing 12162289





R12449 Series

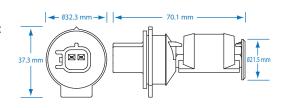
- · For blow or injection molded bottles
- · Side mount design uses separate seal grommet
- Form A (normally open) and Form B (normally closed) operation
- Switch rated 0.5A/100V/10VA max
- Internal snubber resistor
- Mates with Toyota connector P/N 90980-11068





R12456 Series

- · For blow or injection molded bottles
- Side mount design uses separate seal grommet
- Form A (normally open) and Form B (normally closed) operation
- Switch rated 0.5A/100V/10VA max
- · Internal snubber resistor
- Mates with Yazaki 7283-6434-40





Fluid Level Sensors - Magnetic Technology

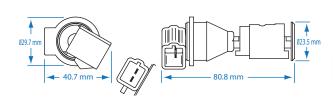
R12347 Series

- · For blow or injection molded bottles
- · Bottom mount design
- Form A (normally open) and Form B (normally closed) operation
- Switch rated 0.5A/100V/10VA max
- Internal snubber resistor
- · Mates with Ford E57B14A464AA



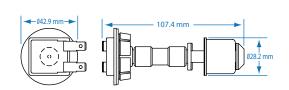
R12349 Series

- For blow or injection molded bottles
- · Side mount design
- Form A (normally open) and Form B (normally closed) operation
- Switch rated 0.5A/100V/10VA max
- · Internal snubber resistor
- Mates with Ford E57B14A464AA



R12072 Series

- · For blow or injection molded bottles
- Top mount/ snap in design
- Form A (normally open) operation
- Switch rated 1.5A/200V/50VA max
- Adjustable sensing point up to 18 inches from top of bottle
- Standard termination-0.25 inch open spade

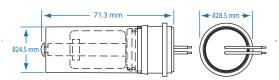




- · For blow or injection molded bottles
- · Indication delay feature
- · Bottom mount design uses separate seal grommet
- Form A (normally open) and Form B (normally closed) operation
- Switch rated 1.5A/200V/50VA max

R12406 Series

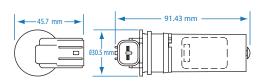
- · For blow or injection molded bottles
- · Indication delay feature
- · Bottom mount design with power harness
- · Form A (normally open) and Form B (normally closed) operation
- Switch rated 1.5A/200V/50VA max





R12518 Series

- · For blow or injection molded bottles
- Indication delay feature
- Form A (normally open) and Form B (normally closed) operation
- Switch rated 0.5A/200V/50VA max
- Mates with Yazaki 62 Series P/N 7123-8521-80





Fluid Level Sensors - Conductive Technology

LS100 Series

Conductivity Fluid Level Sensor is a passive device with no internal electronics

- Driven from external electronics
- Suitable for most conductive fluids with minimal particulate matter
- May be operated from user's electronics in a "pulsing" mode to reduce electrolysis
- May be operated with a bipolar pulsing current from user electronics, eliminating electrolysis

LS200 Series

Conductive Fluid Level Sensors with False Full Protection and current level shift to indicate fluid level

- · Available as a two-wire device
- · Capable of substantial miniaturization
- Equipped with Standex patented "bias ring" concept
- · Suitable for most conductive fluids
- Suitable in fluids with substantial particulate matter
- Operated by a DC current pulse supplied from user's electronics; current draw indicates fluid level
- Optional LED available for local fluid level indication

LS300 Series

Conductive Fluid Level Sensors with Sensitivity Shift / False Full Protection

- Full electronics and substantial probe miniaturization
- Equipped with Standex patented "bias ring" concept
- · Available as a three-wire device
- Suitable for most conductive fluids
- Suitable in fluids with substantial particulate matter
- Internal electronics used to eliminate electrolysis
- Input is 9V to 30 V DC
- Provided with a switched output; 30 volt open collector sync, TTL or CMOS
- · Optional LED available for local fluid level indication

Fluid Pressure Sensor - Magnetic Technology

Hydraulic Fluid Pressure Indicators

- Operating Pressure 1,000 psid
- · Options for Visual and Electrical indication
- Contacts rated 0.5A, 100VDC, 10VA max
- Set points of 15 and 35 psid
- · NO and NC contact configurations





Current Sensors

Standex current sense technology is at work in many commercial and industrial applications worldwide. Our standard products - like CSB series-offer plug-in solutions for P.C. board mounting, and provide an integrated winding in a low-cost compact package. We also engineer current sense solutions which address individual customer requirements. Various terminations – P.C. mount, flying lead, custom leads and connectors, termination by terminals and more are available. Designs are available in open toroidal construction or custom moldings – and can be developed to suit and current ratio, output or capacitance desired. They can be configured for extreme conditions and hazards (temperature, radiation, humidity and more). Applications include over-current sensing for circuit breakers, isolated current sensing for appliances, load variation sensing for frozen drink machines, over current sensing for home appliances, and more.

CSB Series

- · Standard product available with short lead times in small quantity
- Primary and secondary windings are pc integrated no need for customers to install primary winding separately
- Varnish impregnated to reduce audible noise
- Plastic bobbin meets UL 94 flammability requirements

Custom designs

- Engineered to specific customer requirements
- · Open toroid or custom molded
- Can be configured for severe environments humidity, temperature, radiation, and more
- Various terminations available flying Tead, PC mount, custom leads and connectors, termination by terminals – to meet customer requirements

