

Standex | Smart.

Partner, Solve, Deliver® "Solving your complex problems is why we exist."



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ABOUT STANDEX

Customer Focused Engineering Solutions. "Innovating for more than 50 years."

The Standex Electronics business, a division of Standex International Corporation (NYSE:SXI), has been providing solutions through high-performing products since the 1950's. Through growth, acquisition, strategically partnering with customers, and applying the latest engineering designs to the needs of our ever-changing world, Standex Electronics technology has been providing quality results to the end-user. The approach is achieved by partnering with customers to design and deliver individual solutions and products that truly address customers' needs.

Standex Electronics is headquartered in Cincinnati, Ohio, USA, Standex Electronics has nine manufacturing facilities in six countries, located in the United States, Germany, China, Mexico, the United Kingdom, and Japan.



WHO WE ARE / WHERE WE PLAY

Powerfully transforming. "When failure is not an option, designers of critical electronic components rely on Standex and their decades of experience."



Standex Electronics is a worldwide market leader in the design, development and manufacture of reed switch and sensor solutions. Our sensor solutions include Meder, Standex and KOFU (formerly OKI) 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. Our work, growth, and dedication to providing reliable high-quality products through our engineering and manufacturing expertise go beyond products we ship. We offer engineered product solutions for a broad spectrum of product applications in all major markets, including but not limited to:

- · Aerospace & Military
- Alternative Energy
- Automotive & Transportation
- · Fluid Flow
- Food Service
- General Industrial
- Heavy Duty Truck
- · Household & Appliances
- HVAC/R
- Hydraulics
- · Industrial & Power
- Lighting

- Medical
- Metering
- · Off Highway
- Pool & Spa
- Recreational
- · Security & Safety
- Space
- Test & Measurement
- · Utilities & Smart Grid

Our values and what we believe align to the partner, solve, and deliver® approach. We produce parts but we are more than that. Connecting with your team as a strategic partner, listening to your challenges, and arriving at ways to solve your complex problems through our solutions are why we exist. We have custom capabilities that address your needs. Our team leverages our dynamic and diverse engineering expertise and other resources such as our global facilities for logistics and production.



Standex Electronics has been innovating for over 50 years by developing new products, partnering with customers, and expanding our global capabilities. We have also grown our global reach and local touch through synergistic acquisitions.

1960 National Transistor1969 Paul Smith Company

1971 Comtelco 1973 Underwood Electric 1974 Van Products 1998 ATR Coil / Classic Coil Winding 2001 ATC-Frost Magnetics 2002 Cin-Tran 2003 Magnetico /Trans America 2004 Lepco 2008 BG Laboratories 2012 Meder Electronic 2014 Planar Quality Corp. 2015 Northlake Engineering, Inc.® 2017 OKI Sensor Device Corp. 2018 Agile Magnetics

1960

1970

1990

2000

2010















OUR CAPABILITIES



I A T F 16949



AS9100

MANUFACTURING

Automated Optical Inspection (AOI)

Auto AT Switch Sorting

SMT Line with Pick & Place & Reflow

Reed Switch Manufacturing & Sensor Packaging

Wire Prep & Harness Assembly

Thermoplastic & Thermoset Overmolding

Wave & Selective Soldering

Low Pressure (Hot Melt) & Injection Molding

Potting - 2 Component

Reflow Oven – Multiple Zone Convection

Laser Welding

Plasma Surface Treatment

Stainless Steel, Metal & Plastic Fabrication

Lean Manufacturing Principles

Complete, In-House Machine Shop

ENGINEERING

3-D Magnetic Sensor Mapping

3-D CAD Modeling & 3-D Printing

Electronic sensor engineering

Circuit Design and PCB Layout

Mechanical Design & Packaging

Rapid Prototyping

Magnetic Simulation Software

Mechanical, Thermal & FEA Analysis

Plastic Mold Flow Simulation

APQP Project Management

QUALITY & COMPLIANCE

AS9100, IS09001 & IATF16949 Certifications

ITAR Compliance

Regulatory Agency Approvals

PPAP & First Article Inspection

SPC Data Collection

RoHS, REACH, UL, ATEX & IECEx

TESTING & LAB CAPABILITIES

High Voltage/Partial Discharge Testing

Specialized Lab Testing Equipment: Network

Analyzers, Nanovoltmeters, Gauss / Teslameters,

Fluxmeters, Picoammeters

Reed Switch Parametric Testing

Custom Sensor Test System Design & Build

Full Load & Temperature Rise Testing

2-D/3-D Microfocus X-ray Inspection

Digital Microscopic Inspection

Burn-In & Life Testing

Thermal Shock & Temperature Cycling

Humidity, Salt Fog, & Solderability

Moisture Resistance & Seal Testing



TOOL SHOP - MACHINERY, TOOLS & ASSEMBLY



Tool Shop - Machinery & Equipment, Tools & Assembly Services

Standex Electronics' tool shop was established in 1996, as a result of the growing demand for high precision quality tooling for our Reed Products as well as a means of expanding our customer service offering. Our qualified tool shop is a reliable partner providing customer support in the areas of planning, designing and constructing molding tools, punching tools and smaller pressure die-casting tools. Whether single piece or mass production tooling, a team of highly motivated and qualified employees will work with you to design

and construct the tooling that is according to your specifications as agreed upon in the form of a written quotation. The most advanced techniques will be utilized in milling, wire eroding, die sinking and grinding, as well as a select grade of steel in connection with the ideal coating will be used to guarantee that the best quality and durability is achieved for the longest life of the tool. In general, sampling, optimizing and in-house maintenance are provided for all tooling as well as first sample and failure analysis reporting.

Machinery & Equipment

- Sink EDM Machine "Exeron" Machining stroke max.620x420x400mm
- Sink EDM Machine "Ingersoll" -Machining stroke max.400x400x350mm
- CNC Highspeed Milling Machine "Hermle C 30 V" -Machining stroke max.500x450x400mm
- CNC Milling Machine "Bridgeport XR1000" -Machining stroke max.1000x500x500mm
- Wire EDM Machine "Mitsubishi FX 10k" -Machining stroke max.400x400x175mm
- Wire EDM Machine "Sodick ALC 400G" -Machining stroke max.400x300x250mm
- Wire EDM Machine "Sodick AQ 537L" Machining stroke max.530x370x265mm
- Grinding Machine "Elb-Schliff" -Machining stroke max.800x400x475mm
- Grinding Machine "Ziersch ZT 24" -Machining stroke max.400x250x350mm
- Several different conventional lathe, milling and grinding machines
- Measuring machine "Zeiss Scan Max" -Machining stroke 450x450x400mm
- Optical measuring machine "Zeiss"
- · Hardness measurement machinery

Machine & Assembly Services

Stainless steel tube machining cutting, laser welding, marking



Fixture design and production



in copper or graphite

Tooling repair and maintenance

Manufacturing of electrodes



CNC design, simulation, verification and integration



Optical components

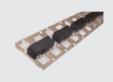


Die-cast zinc tools

Specific Tools



Transfer molding tools



Stamping Tools Progressive stamping tools for lead frames



Technical molded parts

Gearwheels, spindles, frames and holders



Various types for prototyping, molding and stamping



Low-pressure injection molding



Stamped parts for housing shields and contact pins



Insert molded parts







Development, design and construction



Injection Mold Tools

Design parts with high quality surfaces



PARTNER | SOLVE | DELIVER®

Our Approach

PARTNER // TEAMWORK

Dig deep into the customer's project and develop relationship through our thought leadership, expertise, team, and global footprint.

SOLVE // UNDERSTAND

Capabilities, lab, size, shape, power management, ranges, frequency, and more around how our capabilities can provide efficient, productive, designs & products.

DELIVER // QUALITY

Help customers win through our diverse products, dynamic capabilities, reliable high-quality magnetics solutions, and customer driven innovation and service.

Our Custom Solutions Process



- · Understand Application
- · Define Design Targets
- · No. of Switches
- Form (A,B,C,E)
- · Max Voltage, Power, & Current
- · Hot or Cold Switching
- · Life Expectancy Requirements
- · Isolation Requirements
- · Impedence Limitations
- · Temperature Range

- · Certifications & Standards
- · Open Engineering Team Dialogue
- · Footprint, Special Pin-Outs
- Optimize Efficiency
- Electrical Modeling
- · Preliminary Design Approval
- Identify Custom Components
- · Creepage & Clearance Distances
- · Generate Print & Quotation

- · Final Design Approval
- Generate BOM
- · Order Material
- Queue Samples
- · Sample Build
- Test & Report
- Application Testing
- Feedback
- · Repeat As Needed

- Production Order
- · APQP
- FAI
- DFMEA & PFMEA
- · Line Audit
- PPAP
- Delivery
- · Sustaining Engineering

Complex problems deserve custom solutions - As your "application engineer experts", we select the appropriate advanced sensing technology to meet the demands of our customers. Our versatile engineering expertise in magnetic sensing technologies and custom packaging allows us to be a one-stop-shop for your sensing requirements."







REED SWITCH TECHNOLOGY

Standex Electronics is the world's largest manufacturer of reed switches (>700M/yr) with >50% market share offering the most comprehensive listing of reed switches that cover the majority of low power switching requirements. Because reed switches are hermetically sealed (glass to metal seal) they are impervious to almost all environments. This opens up a vast number of applications where they are the only technology capable of meeting specific requirements where certain mechanical switches and semiconductor switches are environmentally limited.

Reed relays and reed sensors both use the reed switch as the heart of their switching mechanism. New applications continue to arise at a significant pace for both products because of the reed switch's unique switching capability. What is driving these new applications is the ever broadening of new reed relay, reed sensor and fluid level designs by Standex Electronics. Our solutions include KOFU (formerly OKI Sensor Device Corp.), MEDER and KENT brand reed switches...







"Standex offers the most comprehensive listing of reed switches that cover the majority of low power switching requirements"

KOFU REED SWITCHES

- Largest global production volume >500M/yr
- · Widest product range 7mm 21mm
- · Highest industry quality/long life
- · Suitable for high-rel automotive & ATE
- · Meet high voltage/breakdown requirements

MEDER REED SWITCHES

- · Mechanized manufacturing in Germany
- · World's smallest 3.95mm
- · Unique flat blade ideal for surface mounting
- · High voltage vaccuum version now available

KENT REED SWITCHES

- · Manufactured in the UK
- · Clear glass 12.7mm 20mm glass
- · Highly automated, lowest industry cost
- · Industrial grade- security, appliance, consumer



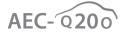
The Reed Switch was first invented by Bell Labs in the late 1930s. However, it was not until the 1940s when it began to find application widely as a sensor and a Reed Relay. Here it was used in an assortment of stepping / switching applications, early electronic equipment and test equipment. In the late 1940s Western Electric began using Reed Relays in their central office telephone switching stations, where they are still used in some areas today. The Reed Switch greatly contributed to the development of telecommunications technology.

Over the years several manufacturers have come and gone, some staying longer than they should have, tainting the marketplace with poor quality, and poor reliability. However, most of the manufacturers of Reed Switches today produce very high quality and very reliable switches. This has given rise to unprecedented growth.

Today Reed Switch technology is used in all market segments including: test and measurement equipment, medical electronics, telecom, automotive, security, appliances, general purpose, etc. Its growth rate is stronger than ever, where the world output cannot stay abreast with demand.

As a technology, the Reed Switch is unique. Being hermetically sealed, it can exist or be used in almost any environment. Very simple in its structure, it crosses many technologies in its manufacture. Critical to its quality and reliability is its glass to metal hermetic seal, where the glass and metal used must have exact linear thermal coefficients of expansion. Otherwise, cracking and poor seals will result. Whether sputtered or plated, the process of applying the contact material, usually Rhodium or Ruthenium, must be carried out precisely in ultra clean environments similar to semiconductor technology. Like semiconductors, any foreign particles present in the manufacture will give rise to losses, quality and reliability problems.

Over the years, the Reed Switch has shrunk in size from approximately 50 mm (2 inches) to 3.9 mm (0.153 inches) or less. These smaller sizes have opened up many more applications particularly in RF and fast time domain requirements.











ELECTRICAL & MECHANICAL BENEFITS

Ability to switch up to 10,000 Volts

Ability to switch currents up to 5 Amps

Ability to switch or carry as low as 10 nanoVolts without signal loss

Ability to switch or carry as low as 1 femtoAmp without signal loss

Ability to switch or carry up to 7 GigaHz with minimal signal loss

Isolation across the contacts up to 1015 W

Contact resistance (on resistance) typical 50 milliOhms (mW)

In its off state it requires no power or circuitry

Ability to offer a latching feature

Operate time in the 100 ms to 300 ms range

Ability to operate at extreme temperature ranges from -55°C to 200°C

Ability to operate in all types of environments including air, water, vacuum, oil,

fuels, and dust laden atmospheres

Ability to withstand shocks up to 200 G

Ability to withstand vibration environments of 50 Hz to 2000 Hz at up to 30 G

Long life with no wearing parts, load switching under 5 Volts at 10 mA, will operate well into the billions of operations

OUR PRODUCTS ARE RECOGNIZED*

Tested in accordance with AFC-0200 In compliance with UL, CSA, EN60950, VDE, BABT 223ZV5, ATEX & IECEx, RoHS, REACH (*not applicable to all products)

REED SWITCH SELECTION GUIDE

"Standex has the expertise and specialized equipment to ensure the highest quality during the custom reed switch manufacturing process."



Standex Reed Switches can be customized for your design needs. Some customization includes sorting specific magnetic sensitivity pull-in ranges and cutting and/or bending the Reed contact leads for either horizontal or vertical surface mount applications or other special mounting requirements. All GR/GP, KSK and ORD Reed Switch series with normally open, normally closed or SPDT switching functions can be customized. Various different pad layouts, length of soldering pin and magnetic sensitivity class are standard options when it comes to customizing a reed switch.

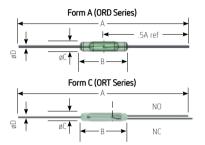
In addition to these standard options, we can also customize any switch to your own design including many value add services such as PCB assembly, epoxy sealing, conformal coating, wire termination and much more.

Custom switches can also be supplied in tape and reel or other desired packaging. Standex has the expertise and specialized equipment to ensure the highest quality during the custom reed switch manufacturing process.

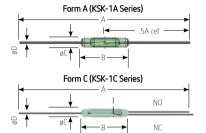
MEDED

Note: All dimensions are in mm and tolerances according to ISO 2768-m. Please refer to the product datasheets on our website for full dimensions, specifications, tolerances, etc. Not all part number combinations are possible, consult the factory for more info. We reserve the right to make any changes according to technological progress or further developments.

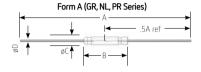












MEDER KENT					
REED SWITCHES REED SWITCHES		Super Ultraminiature <8n	nm	Ultraminiature 9-14mm	
Reed Switch Series	KSK-1A04*	KSK-1A80*	MK23-80 (SMD)	GP400*	KSK-1A87
Description	World's Smallest	Long Life/Close	Long Life/Close	Professional	Long Life
* Most Used	Flat Lead	Differential	Differential	Grade	
Dimensions in mm (inches)					
A - Overall Length	34.5 (1.358)	35.8 (1.410)	12.3 (0.484)-13.35 (0.525)	54 (2.125)	35.7 (1.405)
B - Glass Length Max.	3.95 (0.155)	7.0 (0.275)	7.0 (0.275)	10.0 (0.393)	10.0 (0.393)
C - Glass Dia. Max.	1.5 (0.059)	1.8 (0.070)	1.8 (0.070)	1.9 (0.075)	2.0 (0.078)
D - Lead Dia.	0.8 (0.031) x 0.15 (0.006) max	0.3 (0.011)	0.3 (0.011)	0.43 (0.017)	0.4 (0.015)
Specifications	•		FORM A		
Pull-In Range	5-30 AT	10-40 AT	10-40 AT	7-30 AT	10-40 AT
Rated Power Max.	3W	10W	10W	10W	10W
Switching Voltage	30VDC	170VDC	170VDC	180VDC	200VDC
Switching Current	0.3A DC	0.5A DC	0.5A DC	0.5A DC/AC	0.4A DC
Highlights	S MEDER	S MEDER	S MEDER	€ KENT	MEDER
UL Certificate NRNT2/8.E156887	c FL °us	c FL Lus	c FL °us	c FL L us	c FL Lus

Note: All dimensions are in mm and tolerances according to ISO 2768-m. Please refer to the product datasheets on our website for full dimensions, specifications, tolerances, etc. Not all part number combinations are possible, consult the factory for more info. We reserve the right to make any changes according to technological progress or further developments.

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e	e c	tro	n	i c

REED SWITCHES					
Reed Switch Series	MK23-87 (SMD)	KSK-1A35	MK23-35 (SMD)	KSK-1A35/1*	KSK-1A31
Description	Long Life	Flat Lead	Flat Lead	Mini / Flat Lead	Miniature
* Most Used				High Voltage	Mercury
Dimensions in mm (inches)					
A - Overall Length	14.9 (0.586)-16.6 (0.653)	34.5 (1.358)	15.75 (0.620)-19.9 (0.775)	34.5 (1.358)	41.0 (1.614)
B - Glass Length Max.	10.0 (0.393)	10.5 (0.413)	10.5 (0.413)	10.5 (0.413)	11.0 (0.433)
C - Glass Dia. Max.	2.0 (0.078)	2.1 (0.082)	2.1 (0.082)	2.1 (0.082)	2.5 (0.098)
D - Lead Dia.	0.4 (0.015)	1.2 (0.047) x 0.2 (0.008)	1.2 (0.047) x 0.2 (0.008)	1.2 (0.047) x 0.2 (0.008)	0.5 (0.019)
Specifications	0		FORM A		•
Pull-In Range	10-40 AT	10-40 AT	10-30 AT	10-40 AT	10-40 AT
Rated Power Max.	10W	20W	20W	50W	50W
Switching Voltage	200VDC	200VDC	200VDC	500VDC	500VDC
Switching Current	0.4A DC	1A DC	1A DC	2.0A DC	2.0A DC
Highlights	MEDER	<u> </u>	MEDER .	€ W MEDER	MEDER
UL Certificate NRNT2/8.E156887	c SN us	c '71 1'us	c Fl us	c SN us	c 91 0 us

electronic
REED SWITCHES



electronic REED SWITCHES REED SWITCHES			Ultraminiature 9-14mm		
Reed Switch Series	KSK-1A46	MK23-46 (SMD)	GP501*	KSK-1A66*	KSK-1E66
Description	Close	Close	High	High Automotive Grade	Latching
* Most Used	Differential	Differential	Stability		High Automotive Grade
Dimensions in mm (inches)					
A - Overall Length	44.3 (1.744)	16.9 (0.665)-18.55 (0.730)	54 (2.125)	44.3 (1.744)	44.3 (1.744)
B - Glass Length Max.	12.0 (0.472)	12.0 (0.472)	12.7 (0.5)	14.0 (0.551)	14.0 (0.551)
C - Glass Dia. Max.	2.0 (0.078)	2.0 (0.078)	2.3 (0.090)	2.2 (0.086)	2.2 (0.086)
D - Lead Dia.	0.5 (0.019)	0.5 (0.019)	0.45 (0.017)	0.5 (0.019)	0.5 (0.019)
Specifications	•	F	ORM A		∽ FORM E
Pull-In Range	10-40 AT	10-40 AT	10-35 AT	10-40 AT	30-40 AT
Rated Power Max.	10W	10W	10W	10W	10W
Switching Voltage	200VDC	200VDC	200VDC	180VDC	100VDC
Switching Current	0.5A DC	0.5A DC	0.5A DC/AC	0.5A DC	0.5A DC
Highlights	MEDER	€ MEDER	⊕ <mark>KENT</mark>	€ MEDER	<u> MEDER</u>
UL Certificate NRNT2/8.E156887	c Flu s	c FLL us	c F1 2 us	c 91 2 us	c FL us

MEDER

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		Ultraminiature 9-1		
KSK-1A66/3*	MK23-66 (SMD)	KSK-1B90U*	KSK-1C90U*	KSK-1C90F
High	High-Grade	Normally Closed	Changeover	Changeover
Performance	Automotive			NC Dog Leg Bend
44.3 (1.744)	18.8 (0.740)-20.55 (0.809)	55.1 (2.169)	55.1 (2.169)	54.5 (2.145)
14.0 (0.551)	14.0 (0.551)	14.0 (0.551)	14.0 (0.551)	14.0 (0.551)
2.2 (0.086)	2.2 (0.086)	2.54 (0.1)	2.54 (0.1)	2.54 (0.1)
0.5 (0.019)	0.5 (0.019)	0.5 (0.019)	0.5 (0.019)	0.5 (0.019)
0	— FORM A ————	→ FORM B	•	— FORM C —
10-40 AT	10-40 AT	15-45 AT	15-45 AT	15-45 AT
10W	10W	10W	10W	10W
200VDC	180VDC	175VDC	175VDC	175VDC
0.5A DC	0.5A DC	0.5A DC	0.5A DC	0.5A DC
MEDER	<u> Meder</u>	MEDER MEDER	MEDER	€ MEDER
c SM us	c FALLus	c SU us	c 5 Vius	c SV us
	High Performance 44.3 (1.744) 14.0 (0.551) 2.2 (0.086) 0.5 (0.019) 10-40 AT 10W 200VDC 0.5A DC	High Performance Automotive 44.3 (1.744) 188 (0.740)-20.55 (0.809) 14.0 (0.551) 14.0 (0.551) 2.2 (0.086) 2.2 (0.086) 0.5 (0.019) 0.5 (0.019) - FORM A 10-40 AT 10-40 AT 10W 10W 200VDC 180VDC 0.5A DC 0.5A DC	KSK-1A66/3* MK23-66 (SMD) KSK-1B90U* High High-Grade Normally Closed Performance Automotive 44.3 (1.744) 188 (0.740)-20.55 (0.809) 55.1 (2.169) 14.0 (0.551) 14.0 (0.551) 14.0 (0.551) 2.2 (0.086) 2.2 (0.086) 2.54 (0.1) 0.5 (0.019) 0.5 (0.019) 0.5 (0.019) ○ FORM A → FORM B 10-40 AT 15-45 AT 10W 10W 10W 200VDC 180VDC 175VDC 0.5A DC 0.5A DC 0.5A DC 0.5A DC 0.5A DC 0.5A DC	High Performance Automotive 44.3 (1.744) 18.8 (0.740)-20.55 (0.809) 55.1 (2.169) 55.1 (2.169) 14.0 (0.551) 14.0 (0.551) 14.0 (0.551) 14.0 (0.551) 2.2 (0.086) 2.54 (0.1) 2.54 (0.1) 2.54 (0.1) 0.5 (0.019) 0.5 (

MEDER KENT			
REED SWITCHES REED SWITCHES		Ultraminiature 9-1	4mm
Reed Switch Series	MK23-90 (SMD)	GP560*	PR560
Description	Changeover	High	AC Line
* Most Used	NC Dog Leg Bend	Stability	Voltage
Dimensions in mm (inches)			
A - Overall Length	24.9 (0.980)-25.9 (1.019)	54 (2.125)	54 (2.125)
B - Glass Length Max.	14.0 (0.551)	14.2 (0.559)	14.2 (0.559)
C - Glass Dia. Max.	2.54 (0.1)	2.3 (0.090)	2.3 (0.090)
D - Lead Dia.	0.5 (0.019)	0.6 (0.023)	0.6 (0.023)
Specifications	FORM C	0	FORM A ————
Pull-In Range	15-45 AT	10-50 AT	20-40 AT
Rated Power Max.	10W	10W	10W
Switching Voltage	175VDC	200VDC	100VDC/250VAC
Switching Current	0.5A DC	1.0A DC/AC	1.0A DC/AC
Highlights	MEDER MEDER	€ KENT	™ KENT
UL Certificate NRNT2/8.E156887	c SL us	c FL °us	c FN us

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electronic RENI							
REED SWITCHES REED SWITCHES	Miniature 16-21mm						
Reed Switch Series	KSK-1A55	KSK-1A82	GR100	NL126	PR126		
Description	Lamp Load	High Current	Medium Power	Lamp	Line		
* Most Used			Professional Grade	Load	Voltage		
Dimensions in mm (inches)							
A - Overall Length	44.1 (1.736)	44.1 (1.736)	54 (2.125)	54 (2.125)	54 (2.125)		
B - Glass Length Max.	16.5 (0.649)	16.5 (0.649)	20.3 (0.799)	20.3 (0.799)	20.3 (0.799)		
C - Glass Dia. Max.	2.8 (0.110)	2.8 (0.110)	2.5 (0.098)	2.5 (0.098)	2.5 (0.098)		
D - Lead Dia.	0.6 (0.023)	0.6 (0.023)	0.6 (0.023)	0.7 (0.027)	0.7 (0.027)		
Specifications	0		FORM A -				
Pull-In Range	15-60 AT	30-40 AT	10-40 AT	20-50 AT	20-50 AT		
Rated Power Max.	50W	120W	10W	50W	70W		
Switching Voltage	100VDC	150VDC	100VDC/150VAC	200VDC/150VAC	300VAC/200VDC		
Switching Current	0.5A DC	2.0A DC	1.0A DC	1.5A DC/AC	1.5A DC/AC		
Highlights	W MEDER	(W) MEDER	KENT	W KENT	W KENT		
UL Certificate NRNT2/8.E156887	c FN us	c 500 us	c 51 2°us	c FW us	c SV us		
UL Certificate NRN12/8.E15688/	c 744 us	c 911 us	c All us	c 744 us	c 744 us		

MEDER electronic					
REED SWITCHES			Miniature 16-21mm	า	
Reed Switch Series	KSK-1A53	KSK-1A52	MK23-52 (SMD)	MK23-85 (SMD)	KSK-1A85
Description	High	High Breakdown	High Breakdown	Vacuum	Vacuum
* Most Used	Frequency	Voltage	Voltage	High Power	High Power
Dimensions in mm (inches)					
A - Overall Length	55 (2.165)	55.4 (2.181)	27.9 (1.098)-29.6 (1.165)	27.9 (1.098)-29.6 (1.165)	55.5 (2.185)
B - Glass Length Max.	20.5 (0.807)	21.0 (0.826)	21.0 (0.826)	21.0 (0.826)	21.0 (0.826)
C - Glass Dia. Max.	2.8 (0.110)	2.75 (0.108)	2.75 (0.108)	2.75 (0.108)	2.75 (0.108)
D - Lead Dia.	0.6 (0.023)	0.6 (0.023)	0.6 (0.023)	0.6 (0.023)	0.6 (0.023)
Specifications	0		FORM A		
Pull-In Range	-	15-70 AT	15-70 AT	15-55 AT	15-55 AT
Rated Power Max.	10W	50W	50W	100W	100W
Switching Voltage	200VDC	350VDC	350VDC	1,000VDC	1,000VDC
Switching Current	1.0A DC	0.5A DC	0.5A DC	1.0A DC	1.0A DC
Highlights	MEDER	(W) MEDER	(W) MEDER	W A MEDER	W A MEDER
UL Certificate NRNT2/8.E156887	c 91 1 us	c AL °us	c FU us	c Fl us	c FLI us





MEDER VENT

Note: All dimensions are in mm and tolerances according to ISO 2768-m. Please refer to the product datasheets on our website for full dimensions, specifications, tolerances, etc. Not all part number combinations are possible, consult the factory for more info. We reserve the right to make any changes according to technological progress or further developments.

MEDER electronic

REED SWITCHES					
Reed Switch Series	KSK-1B85	KSK-1E85	KSK-1C10	KSK-1A33	KSK-1A83
Description	Normally Closed	Latching	High Current	High Current	High Current
* Most Used	Latching		Changeover		Flat Lead
Dimensions in mm (inches)					
A - Overall Length	55.5 (2.185)	55.5 (2.185)	86.1 (3.390)	79.0 (3.110)	81.6 (3.212)
B - Glass Length Max.	21.0 (0.826)	21.0 (0.826)	34.3 (1.350)	52.0 (2.047)	53.4 (2.102)
C - Glass Dia. Max.	2.75 (0.108)	2.75 (0.108)	5.16 (0.203)	5.4 (0.212)	5.4 (0.212)
D - Lead Dia.	0.6 (0.023)	0.6 (0.023)	1.01 (0.040)	0.5 (0.019)	2.49 (0.098) x 0.54 (0.213)
Specifications	FORM B	FORM E	FORM C	•	— FORM A —
Pull-In Range	15-55 AT	30-55 AT	60-80 AT	80-100 AT	100-150 AT
Rated Power Max.	100W	100W	100W	50W	50W
Switching Voltage	350VDC	350VDC	500VDC	10,000VDC	7,500VDC
Switching Current	1.0A DC	1.0A DC	3.0A DC	3.0A DC	3.0A DC
Highlights	W A MEDER	W A MEDER	W FIRE	W A MEDER	W A MEDER
UL Certificate NRNT2/8.E156887	c FN us	c FLL us	c 'All 'us	c SU us	c SU us



REED SWITCHES		
Reed Switch Series	KSK-1A69	KSK-1A54
Description	High Current	High
* Most Used	Flat Lead	Frequency
Dimensions in mm (inches)		
A - Overall Length	81.6 (3.212)	81.6 (3.212)
B - Glass Length Max.	53.4 (2.102)	53.4 (2.102)
C - Glass Dia. Max.	5.4 (0.212)	5.4 (0.212)
D - Lead Dia.	2.49 (0.098) x 0.54 (0.213)	1.3 (0.051)
Specifications	•—— F	ORM A ———
Pull-In Range	95-170 AT	-
Rated Power Max.	50W	25W
Switching Voltage	10,000VDC	500VDC
Switching Current	3.0A DC	1.5A DC
Highlights	W A MEDER	MEDER
UL Certificate NRNT2/8.E156887	c 71 us	c 71 0s











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KOFU	J
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REED SWITCHES	Supe	r Ultraminiature <8mm		Ultraminiature 9-	14mm
Reed Switch Series	ORD213*	ORD311*	ORD211*	ORD219*	ORD312*
Description * Most Used			•		
Dimensions in mm (inches)					
A - Overall Length	35.8 (1.409)	35.8 (1.409)	35.7 (1.405)	44.3 (1.744)	44.3 (1.744)
B - Glass Length Max.	7.0 (0.275)	7.0 (0.275)	10.0 (0.393)	12.0 (0.472)	12.0 (0.472)
C - Glass Dia. Max.	1.8 (0.070)	1.8 (0.070)	2.0 (0.078)	2.0 (0.078)	2.0 (0.078)
D - Lead Dia.	0.3 (0.011)	0.33 (0.013)	0.4 (0.015)	0.5 (0.019)	0.5 (0.019)
Specifications	0		FORM A		
Pull-In Range	10-40 AT	10-40 AT	10-40 AT	10-40 AT	10-40 AT
Rated Power Max.	1W	10W	1W	10W	30W
Switching Voltage	24VAC/DC	100VAC / DC	24VAC/DC	100VAC / DC	200VDC / 100VAC
Switching Current	0.1A DC	0.5A DC	0.1A DC	0.5A DC	0.5A DC
Highlights	KOFU	<u> </u>	€ KOFU	€ KOFU	€ KOEU
UL Certificate NRNT2.E70063	71	71	91	7U	91

KOFII

NUFU					
REED SWITCHES			Ultraminiature 9-14		
Reed Switch Series	ORD221	ORD2221	ORD228VL*	ORD324*	ORD324H
Description	Offset	Offset	High Automotive	High Performance	High Performance
* Most Used		Long Lead	Grade		Long Lead
Dimensions in mm (inches)		-			
A - Overall Length	44.2 (1.740)	56.7 (2.232)	44.3 (1.744)	44.3 (1.744)	56.7 (2.232)
B - Glass Length Max.	13.0 (0.512)	13.0 (0.512)	14.0 (0.551)	14.0 (0.551)	14.0 (0.551)
C - Glass Dia. Max.	2.3 (0.090)	2.3 (0.090)	2.2 (0.086)	2.2 (0.086)	2.2 (0.086)
D - Lead Dia.	0.35 (0.014) x 0.6 (0.024)	0.35 (0.014) x 0.6 (0.024)	0.5 (0.019)	0.5 (0.019)	0.5 (0.019)
Specifications	•		FORM A		
Pull-In Range	10-30 AT	10-30 AT	10-40 AT	10-40 AT	10-40 AT
Rated Power Max.	10W	10W	10W	10W	10W
Switching Voltage	100VAC / DC	100VAC / DC	100VAC / DC	200VDC / 150VAC	200VDC / 150VAC
Switching Current	0.3A DC	0.3A DC	0.5A DC	0.5A DC	0.5A DC
Highlights	€ <mark>KOFU</mark>	∱ <mark>KOFU</mark>	€ KOFU	€ <mark>KOFU</mark>	€ KOFU
UL Certificate NRNT2.E70063	7 1	91	5 1	71	91

Note: All dimensions are in mm and tolerances according to ISO 2768-m. Please refer to the product datasheets on our website for full dimensions, specifications, tolerances, etc. Not all part number combinations are possible, consult the factory for more info. We reserve the right to make any changes according to technological progress or further developments.

REED SWITCHES	Ult	raminiature 9-14mm		Miniature 16-21m	ım
Reed Switch Series	ORT551	ORT551-1	ORD2211	ORD2211H	ORD9215
Description	Changeover	Changeover	Lamp Load	Lamp Load	General Purpose Miniature
* Most Used		NC Dog Leg Bend		Long Lead	
Dimensions in mm (inches)					
A - Overall Length	56.1 (2.208)	55.1 (2.169)	44.1 (1.736)	57.0 (2.244)	44.1 (1.736)
B - Glass Length Max.	14.0 (0.551)	14.0 (0.551)	16.5 (0.649)	16.5 (0.649)	17.0 (0.668)
C - Glass Dia. Max.	2.54 (0.1)	2.54 (0.1)	2.8 (0.110)	2.7 (0.106)	2.8 (0.110)
D - Lead Dia.	0.5 (0.019)	0.5 (0.019)	0.6 (0.023)	0.6 (0.023)	0.5 (0.019)
Specifications	0	— FORM C ————		———— FORM A —	•
Pull-In Range	10-30 AT	10-30 AT	20-40 AT	20-40 AT	10-50 AT
Rated Power Max.	3W	3W	50W	50W	10W
Switching Voltage	30VAC / DC	30VDC	100VAC / DC	100VAC / DC	100VAC / DC
Switching Current	0.2A DC	0.2A DC	0.5A DC inrush 3A	0.5A DC inrush 3A	0.4A DC
Highlights	COFU KOFU	→ KOFU	(W) KOFU	W KOFU	KOFU
UL Certificate NRNT2.E70063	91	FL	A L	71	91

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N	U.	F.	U

NUFU			
REED SWITCHES		Miniature 16-21mı	m
Reed Switch Series	ORD229	ORD2210	ORD2210V
Description	Pressurized		Vaccuum
* Most Used	High Breakdown Voltage		High Breakdown Voltage
Dimensions in mm (inches)			
A - Overall Length	55.4 (2.181)	55.4 (2.181)	55.4 (2.181)
B - Glass Length Max.	21.0 (0.826)	21.0 (0.826)	21.0 (0.826)
C - Glass Dia. Max.	2.75 (0.108)	2.75 (0.108)	2.75 (0.108)
D - Lead Dia.	0.6 (0.023)	0.6 (0.023)	0.6 (0.023)
Specifications	0	FORM A	
Pull-In Range	20-60 AT	15-60 AT	20-60 AT
Rated Power Max.	50W	50W	100W
Switching Voltage	350VDC / 300VAC	200VDC / 150VAC	350VDC / 300VAC
Switching Current	0.7A DC / 0.5A AC	1.0A DC / 0.7A AC	1.0A DC
Highlights	(W) KOFU	(w) A KOFU	(w) A KOFU
UL Certificate NRNT2.E70063	71	71	'AL

ORD/ORT switches are measured with Standex Electronics Japan (KOFU) standard coils. Pull-In value is measured with tolerances of +/-2AT

Standex | Strong.

CUSTOM SENSORS

"Complex problems deserve custom solutions"

Standex Electronics incorporates our magnetic reed switches into a wide variety of custom proximity sensors and switches. The reed sensors come in hundreds of different sizes and shapes to meet a multitude of different application requirements. Customers have the opportunity to work with our engineers to design or select the best packaging concept that will line up with their application.

Our unique and patented production process allows us to produce not only very small reed switches, but when we incorporate these into proximity sensors the result is a small sensor with big performance impact.

These ultra-miniature components allow big improvements in the performance of diverse products within medical devices, security systems, safes, and industrial control applications.





REED SENSORS

 $MK24 - \underline{B} - \underline{O} - \underline{OE}$

Surface Mount (SMD)

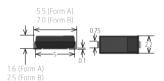
Rated Power Max. 3W/30VDC/0.3A | Operating Range 5-30 AT | Contact Form A, B

- 1 Sensitivity Range AT: A=5-10, B=10-15, C=15-20, D=20-25, +5AT spans
- 2 Lead Design: 1 (Axial), 2 (Gull-Wing), 3 (J-Lead)
- Contact Form B (Normally Closed) 3 Option:
 - On/Off control switch, position detection
 - · Portable medical device, white goods, telecomm, security
 - Supplied in tape and reel according to IEC 286/part 3
 - · Worlds smallest SMD reed sensor



Highlights





MK31 - \underline{B} - $\underline{3}$

26

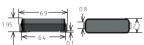
Surface Mount (SMD)

Rated Power Max. 3W/30VDC/0.3A | Operating Range 5-30 AT | Contact Form A

- 1 Sensitivity Range AT: B=10-15, C=15-20, D=20-25, ...+5AT increments
- 3 (J-Lead) 2 Lead Design:
- · On/Off control switch, position detection
- · Portable medical device, white goods, telecomm, security
- Supplied in tape and reel according to IEC 286/part 3
- · J-lead, UL



Highlights



MK23 - $\underline{000}$ - $\underline{0}$ - $\underline{0}$

Surface Mount (SMD)

Highlights

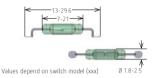
C FALCUIS

Highlights

Rated Power Max. 100W/1000VDC/1A | Operating Range 10-60 AT | Contact Form A, C

- Switch Model: 35, 46, 52, 66, 80, 85, 87, 90 (Form C), 501
- 2 Sensitivity Range AT: B=10-15, C=15-20, D=20-25, ...+5AT increments
- 1 (Axial), 2 (Gull-Wing), 5 (Helix) 3 Lead Design:
- On/Off control switch, position detection
- · Telecomm, white goods, industrial, security
- Supplied in tape and reel according to IEC 286/part 3
- Axial, Gull-Wing, inverse Gull-Wing, or helix lead, UL





MK17 - B - 0

Surface Mount (SMD)

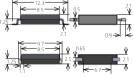
Rated Power Max. 10W/170VDC/0.25A | Operating Range 10-40 AT | Contact Form A

- Sensitivity Range AT: B=10-15, C=15-20, D=20-25, ...+5AT increments
- 2 Lead Design: 1 (Axial), 2 (Gull-Wing), 3 (J-Lead)
- · On/Off control switch, position detection
- · Portable medical device, white goods, telecomm, security
- Supplied in tape and reel according to IEC 286/part 3
- · Axial, Gull-Wing or J-lead, UL

























\$ Best Value A High Voltage Industrial Security Y Telecomm White Goods Wedical Voltage Industrial Security Telecomm White Goods Wedical Security Se

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Surface Mount (SMD)

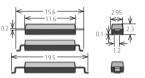
Rated Power Max. 20W/200VDC/1.0A | Operating Range 10-30 AT | Contact Form A

- 1 Sensitivity Range AT: B=10-15, C=15-20, D=20-25, ...+5AT increments
- 2 Lead Design: 1 (Axial), 2 (Short Gull-Wing), 4 (Long Gull-Wing)
- · On/Off control switch, position detection
- Portable medical device, white goods, telecomm, security
- Supplied in tape and reel according to IEC 286/part 3
- · Axial or Gull-Wing lead, UL



Highlights







Surface Mount (SMD)

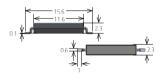
Rated Power Max. 10W/200VDC/0.5A | Operating Range 10-60 AT | Contact Form A

- 1 Sensitivity Range AT: B=10-15, C=15-20, D=20-25, ...+5AT increments
- 1 (Axial), 2 (Gull-Wing) 2 Lead Design:
- On/Off control switch, position detection
- Portable medical device, white goods, telecomm, security
- Supplied in tape and reel according to IEC 286/part 3
- · Axial or Gull-Wing lead, UL



Highlights





MK23 - $\underline{501}$ - $\underline{\underline{B}}$ - $\underline{\underline{0}}$ "Helix"

Surface Mount (SMD)

Rated Power Max. 10VA/200VDC/0.5A | Operating Range 7-30 AT | Contact Form A

- Sensitivity Range AT: B=10-15, C=15-20, D=20-25, E=25-30
- 2 Lead Design: 5 (Helix)
 - On/Off control switch, position detection
 - · Telecomm, white goods, industrial, security
- Supplied in tape and reel according to IEC 286/part 3
- · Axial or Helix lead UI



Highlights

Highlights





MK15 -<u>B</u> - <u>0</u>

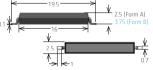
Surface Mount (SMD)

Rated Power Max. 10W/200VDC/0.5A | Operating Range 10-60 AT | Contact Form A, B

- Sensitivity Range AT: B=10-15, C=15-20, D=20-25, ...+5AT increments
- 1 (Axial), 2 (Gull-Wing) 2 Lead Design:
- · On/Off control switch, position detection
- · Telecomm, white goods, industrial, security
- Supplied in tape and reel according to IEC 286/part 3
- · Axial or Gull-Wing lead, high power switch, UL























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MK01-X

Surface Mount (SMD)

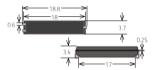
Rated Power Max. 10VA/200VDC/0.5A | Operating Range 10-60 AT | Contact Form A, B, C

- 1 Sensitivity Range AT: B=10-15, C=15-20, D=20-25, E=25-30 (Form A,B) H=15-20, I=20-25, K=25-30 (Form C)
- On/Off control switch, position detection
- · Telecomm, white goods, industrial, security
- · Supplied in tape and reel according to IEC 286/part 3
- J-Lead, high power switch, UL



Highlights





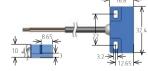
MK02 $/\frac{0}{1} - \frac{1}{2} \times \frac{X}{3} \times \frac{00}{4} - \frac{0000}{5} \times \frac{X}{\text{Termination}}$

Rated Power Max. 10W/200VDC/0.5A | Operating Range 4.5-15 MM

 Operation Series: 	0, 1, 2, 3, 4	Highlights
2 Contact Quantity:	1	9 9
3 Contact Form:	А, В, С	c F Wils
4 Switch Model:	66, 90	IP67
5 Cable Length (mm):	200, 300, 500, 1000, 1500, 2000, 3000, 5000	
Integrated mannet (Only MKO2/4 requires ext_magnet)	

· Front or above operation



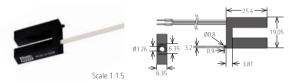


MK28 - $\frac{1}{1}$ $\frac{X}{2}$ - $\frac{000}{3}$ $\frac{X}{Terminatio}$

Rated Power Max. 10W/175VDC/0.5A | Operating Range Exact

1	Contact Quantity:	1	Highlights
2	Contact Form:	A, B, C	5 5
	Switch Model:	90	
3	Cable Length (mm):	500	

- Vane operated screw mount proximity/motion sensor (integrated magnet)
- · Automotive, industrial automation equipment, robotics, harsh environments



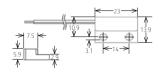


Screw Flange

Pated Power May 10W//00VDC/0.5A | Operating Pages 10-60 AT

1	Contact Quantity:	1	Highlights
2	Contact Form:	A, B, C	
3	Switch Model:	66, 90	c FII °us
4	Sensitivity Range AT	: B=10-15, C=15-20, D=20-25,+5AT increments	MAA
5		200, 300, 500, 1000, 1500, 2000, 3000, 5000	
*M	agnet sold separate		





Position, level. and end limit sensing





























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Screw Flange

Rated Power Max. 10W/400VDC/0.5A | Operating Range 10-60 AT

1 Contact Quantity:	1
2 Contact Form:	A, B, C
3 Switch Model:	66, 90
4 Sensitivity Range AT	: B=10-15, C=15-20, D=20-25,+5AT increments
5 Cable Length (mm):	200, 300, 500, 1000, 1500, 2000, 3000, 5000



Position, level, and end limit sensing

Highlights c **FLI**° iis



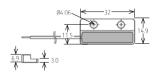


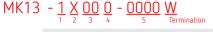
Screw Flange

Rated Power Max. 10W/400VDC/0.5A | Operating Range 10-60 AT

1 Contact Quantity:	1	Highlights
2 Contact Form:	A, B, C	3 3
3 Switch Model:	66, 90	e FAL IIS
4 Sensitivity Range AT	: B=10-15, C=15-20, D=20-25,+5AT increments	MAA
5 Cable Length (mm):	200, 300, 500, 1000, 1500, 2000, 3000, 5000	
*Mannet sold senarate		





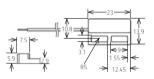


Screw Flange

Rated Power Max. 10W/400VDC/0.5A | Operating Range 10-60 AT

	Contact Quantity:	1	Highlights
	Contact Form:	A, B, C	3 3
	Switch Model:	66, 90	c FN °us
	Sensitivity Range AT:	B=10-15, C=15-20, D=20-25,+5AT increments	
	Cable Length (mm):	200, 300, 500, 1000, 1500, 2000, 3000, 5000	
Ma	agnet sold separate		1 1 1 1 0





Position, level, and end limit sensing

MK26 - $\frac{1}{1}$ $\frac{X}{2}$ $\frac{00}{3}$ $\frac{0}{4}$ - $\frac{0000}{5}$ $\frac{W}{Termination}$

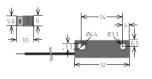
Screw Flange

Rated Power Max. 100W/1000VDC/1.0A | Operating Range 10-60 AT

1 Conta	t Quantity:	1	Highlights
2 Contai	t Form:	A, B, C	
3 Switch	Model:	66, 90	(IP67) **
4 Sensit	vity Range AT:	B=10-15, C=15-20, D=20-25,+5AT increments	A A
5 Cable	Length (mm):	200, 300, 500, 1000, 1500, 2000, 3000, 5000	
6 Termir	ation:	W	

^{*}Magnet sold separate





Position, level, and end limit sensina





Position, level. and end limit

sensing









^{*}Magnet sold separate



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Screw Flange

Highlights

40mm

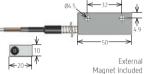
Rated Power Max. 100W/1000VDC/1.0A | Operating Range 10-60 AT

	Lontact Quantity:	
2	Contact Form:	A
3	Switch Model:	66, 85
4	Sensitivity Range AT	B=10-15, C=15-20, D=20-25,+5AT increments

5 Cable Length (mm): 500

^{*}Magnet included





Position, level. and end limit sensing up to

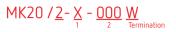
MK21 $/X_1 - \frac{1}{2} \frac{X}{3} \frac{00}{4} \frac{0}{5} - \frac{0000}{6} \frac{W}{Termination}$

Scale 1:2

Screw Flange

Rated Power Max. 100W/1000VDC/1.0A | Operating Range 10-60 AT

1 Ca	ase Version:	P=Potted, M=Molded (M = High Temp +150°C)	Highlights
2 Co	ontact Quantity:	1	5 5
3 Co	ontact Form:	A, B, C	c SU
4 S\	witch Model:	66, 90	(1967)
5 Se	ensitivity Range AT:	B=10-15, C=15-20, D=20-25,+5AT increments	6
6 Ca	able Length (mm):	500, 1000, 1500, 2000, 3000, 5000	□ 11
*Mag	net sold separate		
		← 28.5 →	
- MENSOR	STA		Position, level,



Rated Power Max. 3W/30VDC/0.25A | Operating Range 10-30 AT

Contact Quantity:	.1
Contact Form:	A
Switch Model:	04
1 Sensitivity Range AT:	B=10-15, D=20-25
2 Cable Length (mm):	100, 200, 300, 500
aterenas blos tanneM*	



2 7mm Position, level. and end limit sensing

∌ 👚

Highlights C TAL'IIS

MK20 /1 - X - 000 WTermination

Rated Power Max. 10W/30VDC/0.25A | Operating Range 10-60 AT

Contact Quantity:	1
Contact Form:	A
Switch Model:	80
1 Sensitivity Range AT:	B=10-15, C=15-20, D=20-25, E=25-30
2 Cable Length (mm):	100, 200, 300, 500
*Magnet sold separate	





Highlights c FLI°















and end limit sensing

















SOLUTIONS | Reed Sensors

Note: All dimensions are in mm and tolerances according to ISO 2768-m. Please refer to the product datasheets on our website for full dimensions, specifications, tolerances, etc. Not all part number combinations are possible, consult the factory for more info. We reserve the right to make any changes according to technological progress or further developments. All product images are scaled 1.1 unless otherwise noted.

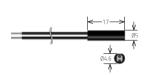




Rated Power Max. 10W/200VDC/0.5A | Operating Range 10-60 AT

	CUITALL QUAITITY.	
	Contact Form:	A
	Switch Model:	87
1	Sensitivity Range AT:	B=10-15, C=15-20, D=20-25, E=25-30
2	Cable Length (mm):	100, 200, 300, 500, 1000, 1500

Contact Quantibe



Highlights

C TIL MA A

5.0mm Position, level.

sensing

and end limit



Rated Power Max. 10W/400VDC/0.5A | Operating Range 10-60 AT

2 Contact Form: A, B, C		
3 Switch Model: 66, 90		
4 Sensitivity Range AT: B=10-15, C=15-20, D=20	-25,+5AT increments	
5 Cable Length (mm): 200, 300, 500, 1000, 1500), 2000, 3000, 5000	

^{*}Magnet sold separate





5.75mm Position, level. and end limit sensing

Highlights

Highlights

 $MK14 - \underbrace{1}_{1} \underbrace{X}_{2} \underbrace{00}_{3} \underbrace{0}_{4} - \underbrace{0000}_{5} \underbrace{W}_{\text{Termination}}$

Rated Power Max. 10W/400VDC/0.5A | Operating Range 10-60 AT

1 Contact Quantity:	1	Highlights
2 Contact Form:	A, B, C	3 3
3 Switch Model:	66, 90	c FL ° _{IIS}
4 Sensitivity Range AT	: B=10-15, C=15-20, D=20-25,+5AT increments	AA
5 Cable Length (mm):	200, 300, 500, 1000, 1500	nos

*Magnet sold separate





4.0mm Position, level, and end limit sensina MK08 - $\frac{1}{1} \times \frac{X}{2} \times \frac{00}{3} = \frac{0000}{4} \times \frac{W}{\text{Termination}}$

Rated Power Max. 60W/400VDC/1.0A | Operating Range 10-60 AT

1	Contact Quantity:	1	
2	Contact Form:	A, B	
3	Switch Model:	66, 85	
4	Cable Length (mm):	200, 300, 500, 1000, 1500	
(KE	MA 00ATEX1112 X, II	ECEx KEM09.0006 X according to DIN EN 60062)	
		100	
		<u> </u>	
		A A A A)i

















^{*}Magnet sold separate

Threaded Barrel



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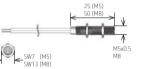
$MK11 - \frac{1}{2} \underset{3}{X} \underset{0}{\underline{0}} \underset{0}{\underline{0}} - \underset{6}{\underline{0000}} \underset{\text{Termination}}{\underline{W}}$

Threaded Barrel

Rated Power Max. 10W/200VDC/0.5A | Operating Range 10-60 AT

	Case, Thread Size:	Stainless Steel M5 or M8	Highlights
1	Contact Quantity:	1	3 3
2	Contact Form:	А, В, С	c All us
3	Switch Model:	66, 85, 90	(IP67) [III]
4	Sensitivity Range AT	C=15-20, D=20-25, E=25-30,+5AT increments	4 6 4
5	Cable Length (mm):	200, 300, 500, 1000, 1500, 2000, 3000, 5000	$\Delta \oplus \mathbf{n}$
*[\	lagnet sold separate		





Position, level, and end limit detection and sensing adjustment

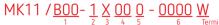
MK11 / $M8 - \frac{1}{1} \times \frac{1}{2} \times \frac{00}{3} \times \frac{0}{4} - \frac{1}{1} \times \frac{1}{2} \times \frac$

Scale 1:15

Threaded Barrel

Pated Power May 100W/1000VDC/1 0A | Operating Pages 10, 50 AT

ка	ted Power Max. Tuuv	V/ TUUUVUC/ T.UA Uperating Range TU-60 AT	
1	Case, Thread Size: Contact Quantity:	Plastic M8	Highlights
2	Contact Form: Switch Model:	A, B, C 66, 85, 90	c TV us
4		C=15-20, D=20-25, E=25-30,+5AT increments 200, 300, 500, 1000, 1500, 2000, 3000, 5000	△ ↑ ↑
*M	agnet sold separate	_	
F		38 38	Position, level, and end limit detection and



Rated Power Max. 100W/1000VDC/1.0A | Operating Range 10-60 AT

1	Case, Thread Size:	B=Brass, 6=M6, 8=M8, 10=M10, 12=M12	Highlights
2	Contact Quantity:	1	3 3
3	Contact Form:	A, B, C	c FN °us
4	Switch Model:	66, 85, 90	(P67) [II] X
5	Sensitivity Range AT	: C=15-20, D=20-25, E=25-30,+5AT increments	<u> </u>
6	Cable Length (mm):	200 300 500 1000 1500 2000 3000 5000	A 🗗 🏗







Position, level, and end limit detection and sensing adjustment

MK07 - $\frac{1}{2} \times \frac{X}{3} \times \frac{00}{4} \times \frac{0}{5} - \frac{0000}{6}$

Threaded Barrel

	Case, Thread Size:	Plastic M8	Highlights
1	Contact Quantity:	1	
2	Contact Form:	А, В	c FII ° IIS
3	Switch Model:	66, 85, 90	
4 5		T: C=15-20, D=20-25, E=25-30,+5AT increments 200, 300, 500, 1000, 1500	
*	lagnet sold separate		Position, level
		013 39.5 3 6 31.5 3	and end limil sensing













sensing adjustment











Scale 1:1.5





Thread M8 x 0.75, SW 12

Scale 1:1.5

SOLUTIONS | Reed Sensors

Note: All dimensions are in mm and tolerances according to ISO 2768-m. Please refer to the product datasheets on our website for full dimensions, specifications, tolerances, etc. Not all part number combinations are possible, consult the factory for more info. We reserve the right to make any changes according to technological progress or further developments. All product images are scaled 1:1 unless otherwise noted.



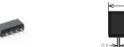
MK10 -<u>C</u> - <u>270</u>

Rated Power Max. 10W/170VDC/0.25A | Operating Range 10-40 AT | Contact Form A

Sensitivity Range AT: B=10-15, C=15-20, D=20-25, E=25-30

Highlights

- 2 Resistance O 270 (others available)
- · On/Off control switch, position detection
- · Level sensing applications
- Excellent for low power operation







MK06 -<u>00</u>-X

Rated Power Max. 10W/170-200VDC/0.25-0.5A | Operating Range 10-60 AT

1 Package Length (mm): 4=12.06, 5=14.30, 6=17.24,

7=19.78, 8=22.32, 10=28.50

2 Sensitivity Range AT: B=10-15, C=15-20, D=20-25, E=25-30 (Form A,B)

H=15-20, I=20-25, K=25-30 (Form C)

66, 87, 90 (Form E Latching option)



On/Off control switch, position detection 1inch (2.54mm) pin spacing

Highlights

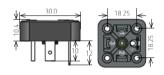
MK09 - $\frac{1}{1}$ $\frac{A}{2}$ $\frac{00}{3}$ - $\frac{0}{h}$

Rated Power Max. 10W/180VDC/1.25A | Operating Range 10-30 AT

			 Highlights
1	Contact Quantity:	1	
2	Contact Form:	А, В, С	c FL IIs
3	Switch Model:	66, 84, 90	 Inf st

Sensitivity Range AT: B=10-15, C=15-20, D=20-25, E=25-30 *Reed sensor integrated into a standard Hirschmann connector

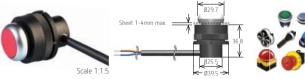




MK25 $-\frac{1}{1} \times \frac{X}{2} \times \frac{00}{3} - \frac{0000}{4} \times \frac{W}{Termination}$

Rated Power Max. 10W/400VDC/0.5A | Push Button Reed Sensor/Contactless Switching

				-
1	Contact Quantity:	1	Operate -40°C to +60°C	Highlights
2	Contact Form:	A, B, C	(KEMA 05ATEX1206 X	
3	Switch Model:	46, 90	according to EN 60062)	ε~
4	Cable Length (mm):	200, 300, 500	0, 1000, 1500, 2000, 3000, 5000	
*E	Button Accessories Sol	d Separate		



Button plates, emergency stop buttons, etc. can be provided with laser inscriptions as required. The information is burnt into the surface and thus, unlike with print-inscribed elements, is very durable.









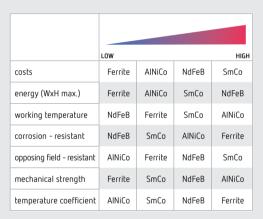








MAGNETS



Reed Switch requires either a permanent magnet or magnetic field in order to activate the switch, thus it is commonly called a magnetic reed switch. Magnets have reversible and irreversible demagnetization specifications. Engineers should consider shock, vibration, strong external magnetic fields as well as high

temperatures in their designs. All these factors influence the magnetic force and the long term stability in different ways.

Preferably the magnet is mounted on the moving part of the application. Professional tuning of the magnet and reed switch pairing can improve the functionality of the whole sensor-magnet system. We offer permanent magnets in various standard housings for quick mounting or as is.

We offer the following types of permanent magnets:

- AlNiCo (Aluminum Nickel, Cobalt, Iron and Titanium)
- SmCo (Samarium Cobalt) & NdFeB (Neodymium) - rare earth
- · Hf hard ferrite

These are some of our most widely used models, others available as required.

Dimensions in mm

AlNiCo

AINiCo Ø2.5 x 12.7 AINiCo Ø3.0 x 12.0 AINiCo Ø4.0 x 19.0 AINiCo Ø5.0 x 4.0 AINiCo Ø5.0 x 20.0 AINiCo Ø5.5 x 22.0 AINiCo Ø7.5 x 27.0

AlNiCo 3 2 x 3 2 x 19 0



Rare Earth

SmCo5 Ø1.9 x 3 SmCo5 Ø3 x 4 NdFeB N35 Ø4 x 19 NdFeB N35H Ø4 x 19 NdFeB N45 Ø4 x 19 NdFeB 250/175H Ø6 x 10 NdFeB 250/175H 10 x 5 x 1.9



Hard Ferrite

Hf 28/26 2.6 x 2.6 x 4.0 Hf 28/26 3.5 x 1.8 x 1.8 Hf 28/26 6.7 x 6.7 x 2.7



SOLUTIONS | Magnets

Note: All dimensions are in mm and tolerances according to ISO 2768-m. Please refer to the product datasheets on our website for full dimensions, specifications, tolerances, etc. Not all part number combinations are possible, consult the factory for more info. We reserve the right to make any changes according to technological progress or further developments. All product images are scaled 1:1 unless otherwise noted.

Dimensions in mm (inches) L - 32.4 (1.275) L - 23 (0.905) L - 23 (0.905) L - 23.2 (0.913) L - 28.6 (1.125) W - 16.7 (0.657) W - 13.9 (0.547) W - 19.6 (0.771) W - 19 (0.748) H - 10 (0.393) H - 5.9 (0.232) H - 5.9 (0.232) H - 6.35 (0.25)	M04	M13	M05	M21/P(1,2)	Magnets in Housings
W - 16.7 (0.657) W - 13.9 (0.547) W - 13.9 (0.547) W - 19.6 (0.771) W - 19 (0.748)					
	L - 23 (0.905)	L - 23 (0.905)	L - 23.2 (0.913)	L - 28.6 (1.125)	
H - 10 (0.393) H - 5.9 (0.232) H - 5.9 (0.232) H - 5.9 (0.232) H - 6.35 (0.25)	W - 13.9 (0.547)	W - 13.9 (0.547)	W - 19.6 (0.771)	W - 19 (0.748)	
This are started to the start of the start o	H - 5.9 (0.232)	H - 5.9 (0.232)	H - 5.9 (0.232)	H - 6.35 (0.25)	
	sharped Mich	Magail M.2	store Mit.	materials.	
		L - 23 (0.905) W - 13.9 (0.547)	L - 23 (0.905) L - 23 (0.905) W - 13.9 (0.547) W - 13.9 (0.547)	L - 23 (0.905) L - 23 (0.905) L - 23.2 (0.913) W - 13.9 (0.547) W - 13.9 (0.547) W - 19.6 (0.771)	L - 23 (0.905) L - 23 (0.905) L - 23.2 (0.913) L - 28.6 (1.125) W - 13.9 (0.547) W - 13.9 (0.547) W - 19.6 (0.771) W - 19 (0.748)

M27	M11(B)	M11(S)	M11(P)	M03	Magnets in Housings
Dimensions in mm (inch	es)				
L - 50.0 (1.969)	L - 38 (1.496)	L - 25 (0.984)	L - 38 (1.496)	L - 25 (0.984)	
W - 20.0 (0.787)	Ø - M6-M12	Ø - M5 x 0.5 / M8 x 0.5	Ø - M8 x 1.25	Ø - M5 x 0.5	
H - 10.0 (0.394)	-	-			
Scale 1:1.5	Scale 1:2.25				
		H	B.	Magnet NOS	

SENSOR ACTIVATION DISTANCES

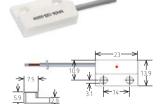
Reed Sensor	Magnetic Sensitivity				lovemo ance in				and M out Dis		ent in mm	Resulting from position and movement of the actuator magnet.	
	mT	D1	D2	D3	D4	D5	D1	D2	D3	D4	D5		
K03 -1A66 <u>B</u> -500W	> 1.70	15.0	6.5	9.3	8.5	8.5	17.5	8.0	11.4	10.1	10.1		
K03 -1A66 <u>C</u> -500W	> 2.30	13.0	4.4	7.4	7.2	7.2	16.5	6.5	9.9	9.5	9.5	/	/ D1/D
1K03 -1A66 <u>D</u> -500W	> 2.70	11.0	4.0	5.7	6.5	6.5	14.5	5.5	8.5	9.0	9.0	D1/D2	14
1K03 -1A66 <u>E</u> -500W	> 3.10	10.0	3.5	4.5	5.7	5.7	13.5	5.0	8.0	8.5	8.5		
1K04 -1A66 <u>B</u> -500W	> 1.70	15.0	6.5	9.3	8.5	8.5	17.5	8.0	11.4	10.1	10.1		19
4K04 -1A66 <u>C</u> -500W	> 2.30	13.0	4.4	7.4	7.2	7.2	16.5	6.5	9.9	9.5	9.5		3
MK04-1A66 <u>D</u> -500W	> 2.70	11.0	4.0	5.7	6.5	6.5	14.5	5.5	8.5	9.0	9.0	D3	
MK04-1A66 <u>E</u> -500W	> 3.10	10.0	3.5	4.5	5.7	5.7	13.5	5.0	8.0	8.5	8.5		
1K05 -1A66 <u>B</u> -500W	> 1.70	15.0	6.5	9.3	8.5	8.5	17.5	8.0	11.4	10.1	10.1		
MK05 -1A66 <u>C</u> -500W	> 2.30	13.0	4.4	7.4	7.2	7.2	16.5	6.5	9.9	9.5	9.5		
1K05 -1A66 <u>D</u> -500W	> 2.70	11.0	4.0	5.7	6.5	6.5	14.5	5.5	8.5	9.0	9.0	D2 D1	D2
IK05-1A66 <u>E</u> -500W	> 3.10	10.0	3.5	4.5	5.7	5.7	13.5	5.0	8.0	8.5	8.5		
1K11/M8 -1A66 <u>B</u> -500W	> 1.70	15.0	6.5	9.3	8.5	8.5	17.5	8.0	11.4	10.1	10.1		
IK11/M8-1A66 <u>C</u> -500W	> 2.30	13.0	4.4	7.4	7.2	7.2	16.5	6.5	9.9	9.5	9.5		
4K11/M8 -1A66 <u>D</u> -500W	> 2.70	11.0	4.0	5.7	6.5	6.5	14.5	5.5	8.5	9.0	9.0		
4K11/M8 -1A66 <u>E</u> -500W	> 3.10	10.0	3.5	4.5	5.7	5.7	13.5	5.0	8.0	8.5	8.5	<u> </u>	
4K13 -1A66 <u>B</u> -500W	> 1.70	15.0	6.5	9.3	8.5	8.5	17.5	8.0	11.4	10.1	10.1	T	
4K13 -1A66 ⊆ -500W	> 2.30	13.0	4.4	7.4	7.2	7.2	16.5	6.5	9.9	9.5	9.5	D4 D4	
MK13-1A66 <u>D</u> -500W	> 2.70	11.0	4.0	5.7	6.5	6.5	14.5	5.5	8.5	9.0	9.0		
1K13 -1A66 E -500W	> 3.10	10.0	3.5	4.5	5.7	5.7	13.5	5.0	8.0	8.5	8.5		
All distance data above are valid for the magnets below:	4003004003 / Pt 2500000002 / M 2500000004 / M	erm. mag 02		:		9.7	25000 25000	000005	/ M05 / M13	, 0.5	0.5		

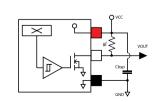
HALL EFFECT SENSORS

tandex Electronics' Hall Effect Sensor series offer solid state reliability, low power consumption, and consistent activation points over a wide temperature range in a rugged and environmentally isolated package. Micro-Power versions operate on 2.5-3.5V battery voltage with only 5µA average supply current vs. the industry average of 5mA.

Custom options include: output- switch, latch, etc., high temperature resistance, package design and much more.

 $MH04 - \underbrace{00}_{1} \underbrace{X}_{2} - \underbrace{000}_{3} \underbrace{W}_{\text{Termination}}$ Standard Power 3-24VDC/4mA (V_{rr} =12V) | Micro Power 2.5-3.5V/10 μ A (V_{rr} =3.5V) 11 = Standard Power, 10 = Micro Power Power Version: Highlights Function: Switch, *Latch (*Standard Power only) 3 Cable Length (mm): 300, 500, other lengths as needed

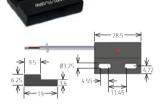


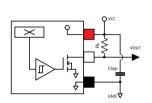


MH21 - 00 X - 000 W

Standard Power 3-24VDC/4mA (V_{cr} =12V) | Micro Power 2.5-3.5V/10 μ A (V_{cr} =3.5V)

1	Power Version:	11 = Standard Power, 10 = Micro Power	Highlights
2	Function:	Switch, *Latch (*Standard Power only)	
3	Cable Length (mm):	300, 500, other lengths as needed	A - *
	_		<i>→</i> ••••••••••••••••••••••••••••••••••••

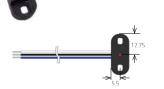


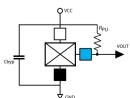


MH32 - $\frac{00}{1}$ $\frac{X}{2}$ - $\frac{000}{3}$

Standard Power 2.7-2(VDC / 25mA (V = 12V) | Micro Power 2.5-3.5V / 10uA (V = 3.5V)

Sto	iliualu Fuwel 2.7-24	VDC/23IIIA (V _{CC} =12V) MICIO FOWEI 2.3-3.3V/ TOPA	(v _{cc} =3.3v)
1	Power Version:	11 = Standard Power, 10 = Micro Power	Highlights
2	Function:	Bipolar Switch, *Bipolar Latch (*Standard Power only)	
3	Cable Length (mm):	300, 500, other lengths as needed	A - *
6			\$



















FLUID SENSORS & FLOATS

tandex Electronics supplies fluid level sensors that use a wide range of technologies - from magnetic Reed Switch technology to conductive technology. Standex Electronics designs fluid level sensors that are appropriate for each individual application. From basic sensors which are driven by external electronics to turnkey sensor systems with switched outputs, Standex Electronics delivers solutions to the most demanding fluid level sensing applications.

LS01 $-\frac{1}{1} \times \frac{X}{2} \times \frac{00}{3} - \frac{PX}{4} - \frac{0000}{5} \times \frac{W}{Ter}$

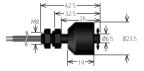
Single Level

Rated Power Max. 100/400VDC/1.0A | Vertical Mount

1	Contact Quantity:	1	3	Switch Model:	66, 85, 90	Highlights
2	Contact Form:	A, B, C	4	Material:	PA, PP	

- 5 Cable Length (mm): 500, 1000, 5000
- · Compact Single Level Vertical Mount Level Sensor High power switch option, other cables and connectors
- · Shaft: PA or PP. Float: PA. PP. NBR





Level control. detection and monitoring

金 *

T---

LS02 - $\frac{1}{1} \times \frac{X}{2} \times \frac{00}{3} - \frac{PX}{4} - \frac{0000}{5} \times \frac{W}{100}$

Single Level

Highlights

Level control. detection and monitoring

Highlights

8米。

Rated Power Max. 100/400VDC/1.0A | Vertical Mount

1	Contact Quantity:	1	3	Switch Model:	66, 85, 90
2	Contact Form:	A, B, C	4	Material:	PA, PP
5	Cable Length (mm):	500, 1000,	5000)	

- IP68-only up to screw in thread
- Compact Single Level Vertical Mount Level Sensor
- · High power switch option, other cables and connectors
- · Shaft: PA or PP. Float: PA. PP. NBR



LS02 $-\frac{1}{1} \times \frac{X}{2} \times \frac{00}{3} - \frac{S}{4} - \frac{0000}{5} \times \frac{W}{100}$

Single Level

Rated Power Max. 100/400VDC/1.0A | Vertical Mount

1	Contact Quantity:	1	3	Switch Model:	66, 85, 90
2	Contact Form:	A, B, C	4	Material:	S=Stainless
5	Cable Length (mm):	500, 1000,	5000)	

- IP68-only up to screw in thread, High temp up to 120°C
- · Compact Single Level Vertical Mount Level Sensor
- · High power switch option, other cables and connectors
- Shaft/Float: S=Stainless Steel





Level control, detection and monitoring











SOLUTIONS | Fluid Sensors & Floats

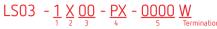
Note: All dimensions are in mm and tolerances according to ISO 2768-m. Please refer to the product datasheets on our website for full dimensions, specifications, tolerances, etc. Not all part number combinations are possible, consult the factory for more info. We reserve the right to make any changes according to technological progress or further developments. All product images are scaled 1.1 unless otherwise noted.



Level control,

detection and

monitoring



Single Level

Highlights

Level control, detection and monitorina

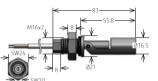
Rated Power Max. 100/400VDC/1.0A	Horizontal Mount

1	Contact Quantity:	1	3	Switch Model:	66, 85, 90
2	Contact Form:	A, B, C	4	Material:	PA, PP

- 5 Cable Length (mm): 500, 1000, 5000
- · IP68-only up to screw in thread
- · Compact Single Level Horizontal Mount Level Sensor
- · High power switch option, other cables and connectors
- · Shaft/Float: PA. PP

Tank Wal





Standard Version GZ Version DK Version DL Version

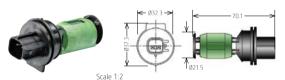
KSS - BV00000

Single Level

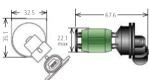
Rated Power Max. 100/400VDC/1.0A | Horizontal Mount

1	Contact Quantity:	1	Highlights
2	Contact Form:	A, B	
3	Shaft/Float	PP	₩+

- · Compact Single Level Horizontal Mount Level Sensor
- · Mounted from the outside
- · Ideal in blow or injection molded bottles
- Mates with Yazaki 7283-6434-40 and Packard 12162193 connector







Tank Wall











SOLUTIONS | Fluid Sensors & Floats



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1 Contact Quantity:

LS04 - $\frac{1}{1} \times \frac{X}{2} \times \frac{00}{3} - \frac{0}{4} - \frac{0000}{5} \times \frac{W}{Teritor}$

Rated Power Max. 100/400VDC/1.0A | Horizontal Mount

- Contact Quantity: 3 Switch Model 66.85.90 4 Shaft Length (mm): 0, 2, 4, 5 2 Contact Form: A, B, C
- 5 Cable Length (mm): 500, 1000, 5000 0=255, 2=130, 4=178, 5=190
- · Up to 6 floats, 1W-100W rated power, other cables, connectors
- · Reservoir, tank, bottle or other container mounting configurations

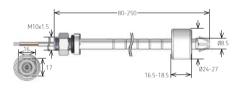


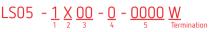
Highlights

Single, multi and continuous level control. detection and monitoring



Scale 1:15





66 85 90

Rated Power Max. 100/400VDC/1.0A | Vertical Mount

	Contact Form:		Shaft Length (mm):	1, 2, 5, 7
	6 11 1 11 /			450 7 220

3 Switch Model

- 5 Cable Length (mm): 500, 1000, 5000 1=55, 2=114, 5=152, 7=220
 - · Multiple floats with a minimum 1.5" spacing
 - 1W-100W rated power, other cables, connectors
 - · Shaft: SS. Floats: PA. PP. NBR. or SS
 - High temp up to 200°C (SS) and pressure up to 12 bar

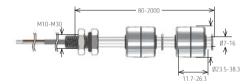


Scale 1:15

Single, multi and continuous level control. detection and monitoring

Highlights

AA





























SOLUTIONS | Fluid Sensors & Floats

Note: All dimensions are in mm and tolerances according to ISO 2768-m. Please refer to the product datasheets on our website for full dimensions, specifications, tolerances, etc. Not all part number combinations are possible, consult the factory for more info. We reserve the right to make any changes according to technological progress or further developments. All product images are scaled 1:1 unless otherwise noted.



Series	Material	Outside Dia. mm (inches)	Inside Dia. mm (inches)	Height mm (inches)	Use with sensor	Additional Floats Information
MS01-NBR	NBR	24.5 (0.964)	8 (0.314)	19.0 (0.748)	1001 1002 1002 0	Excellent registrates to patroloum derived liquids
MS02-NBR	NBR	25.0 (0.984)	9.15 (0.360)	16.5 (0.649)	LS01, LS02, LS02-S LS04, LS05	Excellent resistance to petroleum derived liquids
MS18-NBR	NBR	28.5 (1.122)	9 (0.354)	16.5 (0.649)	L304, L303	High buoyancy and excellent resistance to petroleum derived liquids
MS01-PA	PA	23.5 (0.925)	8.5 (0.334)	19.0 (0.748)	1001 1002 0	
MS02-PA	PA	25.0 (0.984)	9.15 (0.360)	16.55 (0.651)	LS01, LS02-S LS05	High strength to weight ratio, shock and abrasion resistant
MS07-PA	PA	36.0 (1.417)	16.15 (0.635)	19.0 (0.748)	L303	
MS01-PP	PP	23.5 (0.925)	8.4 (0.330)	19.0 (0.748)		Highly resistant to chemical solvents, bases and acids
MS02-PP	PP	25.2 (0.992)	9.15 (0.360)	16.55 (0.651)		rigilly resistant to chemical solvents, bases and acids
MS02/R-PP	PP	25.0 (0.984)	9.15 (0.360)	16.55 (0.651)	LS01, LS02 LS02-S	Highly resistant to chemical solvents, bases and acids Magnet direction radial
MS03-PP	PP	27.0 (1.062)	11 (0.433)	11.7 (0.460)	LS04, LS05	
MS04-PP	PP	18.5 (0.728)	10.2 (0.401)	20.0 (0.787)		Highly resistant to chemical solvents, bases and acids
MS08-PP	PP	20.0 (0.787)	9.15 (0.360)	16.0 (0.630)		
MS06-PP	PP	30.0 (1.181)	N/A	8.0 (0.314)	All Reed Sensors	Highly resistant to chemical solvents, bases and acids; also for food and beverage industry
B12469	PP	32.6 (1.283)	N/A	22.9 (0.901)	R12468	Float located in bottle assembly, specific gravity per application
B12482	PP	42.0 (1.653)	11.4 (0.448)	25.0 (0.984)	R12481	Float located in bottle assembly, specific gravity per application
B12450	PP	L - 17.5 (0.688)	W - 13.4 (0.527)	24.9 (0.980)	R11744/R12180	Float located in bottle assembly, operates with fluid specific gravity at 0.79 min
MS09-S	V2A	24.0 (0.944)	9.5 (0.374)	24.0 (0.944)	LS02-S	Designation to high temperatures and ideal for food and housesses industry.
MS10-S	V2A	38.3 (1.507)	9.5 (0.374)	26.3 (1.035)	LS05	Resistant to high temperatures and ideal for food and beverage industry

PA (Polyamide) | PP (Polypropylene) | NBR (Nitrile Butadiene Rubber) | V2A (Stainless Steel)



Standex | Smart.

CUSTOM FLUID LEVEL & FLOW SENSORS

"Complex problems deserve custom solutions"

The fluid level reed sensors sense level changes in liquid in an assortment of liquid mediums. The sensors generally have an attached float with an embedded magnet that moves up and down on a encased stem where the reed switches are housed. The reed switches will change their closure state when the float comes within their magnetic influence. The closure initiates a sequence of events alerting the change of the liquid level.

We offer an extensive selection of different reed sensor packages, switch configurations, stem lengths, float density sensitivities allowing for diverse applications. Our engineers are ready to match custom designs to stringent requirements.

Our reed sensors are used in the automotive industry to measure fuel, oil, brake fluid, radiator, windshield washer level, and other fluids. They are also found in recreational vehicles, such as jet skis, sensing oil and fuel levels. Wherever a liquid exists or can accumulate, Standex Electronics offers a sensing solution.







HVAC/R Series Flood Prevention Switches -Reed Technology

Truly Reliable, Plug-N-Play and Hassle Free

Standex Electronics provides the HVAC industry with high performing Flood Prevention Switches (FPS's) that are easy to install and service. Our expertise and capabilities allow for reliable innovations that prevent overflowing that causes damage to floors, walls, ceilings and the like. For example, if water levels in

rose due to a clogged air conditioning condensate, the switch shuts off the system.

Pressure Differential Sensors - Reed Technology

Differential pressure sensors are utilized in the hydraulics industry to alert equipment operators that their hydraulic fluid filter has reached the end of its life. Standex Electronics designs and manufactures many configurations of these "filter bypass" sensors with options for custom connection methods, varying trip and reset pressures, NO/NC/SPDT switch configurations, mounting and sealing to the filter head. The hermetically sealed reed switch contacts are more reliable in these applications than other technologies such as open mechanical contacts, visual pop-up indicators, or



snap action switch assemblies. The contact quality, switching life and non-intrusive sensing arrangement of reed switches increases indicator reliability. We partner with the customer to design and validate the custom indicators to specific OEM requirements, often creating a proprietary product line for each customer.

Fluid Level Sensors - Conductive Technology

Standex Electronics manufactures state-of-theart conductive liquid sensors that detect changes in levels without the use of a float. These sensors are used generally in water based conductive fluids when the application cannot use a float based system. Our conductive fluid level sensors have a patented false full protection and current level shift to indicate fluid level. They guard against electrolysis and conduction paths along the sensor packaging with high quality performance. Applications include the measurement of syrups and juices in the food industry, measurement of liquid soaps in washing applications, liquid waste products, storm drains, bilge pumps, sump water, and many other functions.





Flow Sensors - Reed Technology

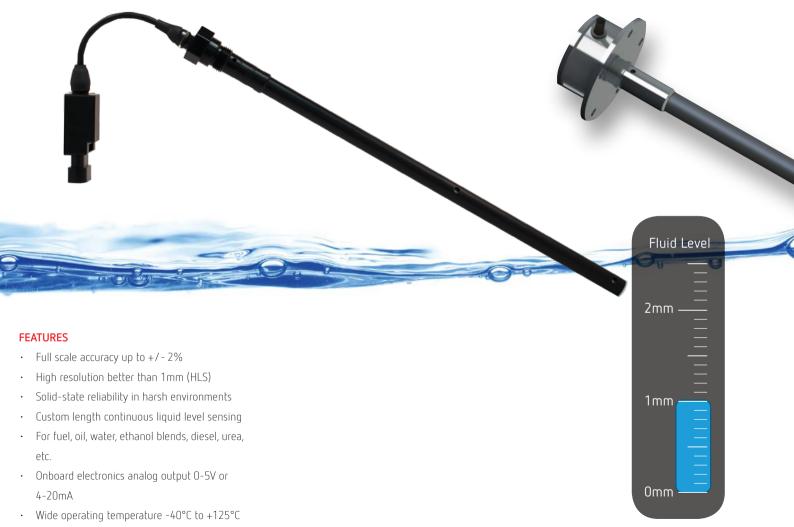
Standex Electronics designs and manufactures custom reed switch and magnet based flow switches for specific customer applications. The designs often include harsh environments, significant durability requirements, and precise flow rate switching.

Designs can be intrusive or non-intrusive with multiple custom packaging options for terminating and wiring and add-ons for temperature sensing, salinity, and multiple trip points.

Utilizing our vast experience in reed switch application engineering, mechanical packaging, and related manufacturing process, Standex Electronics provides quality flow switching products for markets such as home appliances and pool/spa.

Advanced Fluid Level Sensors - Hall Effect & Capacitive Technology

Standex Electronics Solid State Hall Effect Level Sensors (HLS) and Capacitive Level Sensors (CLS) are custom designed solutions for continuous fluid level monitoring. These smart sensors have an integrated onboard microcontroller with calibrated and programmable output for various tank geometries. Our patent pending & revolutionary designs can be configured in either engineering plastic or stainless-steel housings with PP, PA, NBR, and stainless floats as well as multiple mounting options.



Can meet IP67 requirements

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