

Reed Switches

Standex Designed and Manufactured Switching Solutions



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Standex Engineering & Manufacturing Legacy



*Center of Excellence - Engineering heritage
feeding one manufacturing platform*

OUR STORY

Standex Detect designs, manufactures, and qualifies reed switches in our own global facilities.

Our legacy brands—MEDER, OKI/KOFU, Sensor Solutions, and Sanyu represent engineering centers of excellence, unified under one manufacturing, quality, and testing system.

We build the reed switch, the sensor and relay, the tooling, and the test infrastructure—end to end **delivering the right design at the right time and at the optimal cost.**

This combination of scale, technical expertise, and global reach enables Standex Detect to support customers across a wide range of critical industries.

Standex Detect operates under the strategic leadership and corporate governance of Standex Electronics and Standex International Corporation (NYSE: SXI).



PRODUCTS

Proven performance
across three core
product categories:



From Reed Switch to Qualified System-Level Solution

Reed
metallurgy

Switch
fabrication

Relay
design

Coil
winding

Packaging

Testing

Customer
application

- **Reed Switches** - Hermetically sealed magnetic sensors delivering precise, reliable switching in compact form factors. Available across a wide range of sizes and power ratings to support applications from low-power miniaturized devices to high-voltage systems.
- **Sensors** - Reed- and Hall-effect-based sensors providing accurate, contactless position, proximity, and speed sensing. Designed for harsh environments across automotive, transportation, renewable energy, industrial, and medical markets.
- **Relays** - Electromagnetic and solid-state relay solutions with excellent signal integrity. Our portfolio of reed, Photo-MOSFET, and optocoupler relays supports high-reliability switching for ATE, semiconductor test, EV, data centers, renewable energy, battery management, medical and industrial automation applications.

WHY ENGINEERS CHOOSE US AS THEIR MANUFACTURING PARTNER

World's largest reed switch manufacturer (>700M/year), proprietary life-cycle test systems, in-house tooling and automation



Custom Engineered

Designed to your exact mechanical, magnetic, electrical, environmental and cost requirements.



Proven Reed Switch Manufacturing Reliability

Industry-leading hermetic sealing and proven performance in extreme environments.



Multi-Technology Expertise

Reed, Hall-effect, solid-state, and hybrid technologies in one integrated partner.



Application Leadership

High-reliability reed switches, sensors, relays for critical application requiring precision and reliability.



Global Manufacturing

Manufacturing across the U.S., Germany, China, Mexico, Japan, India & the U.K. for reduced supply-chain risk.



Co-Engineering Partnership

Direct integration with customer engineering teams from concept to production.

The Standex Detect Advantage : End-to-end design, unmatched reliability, and global scale engineered into every solution.

- 35,000+ custom solutions delivered
- Global manufacturing across 3 continents
- Decades of reed, sensor, and relay manufacturing leadership
- World's largest manufacturer of reed switches
- Proprietary life-cycle test systems
- In-house tooling and automation

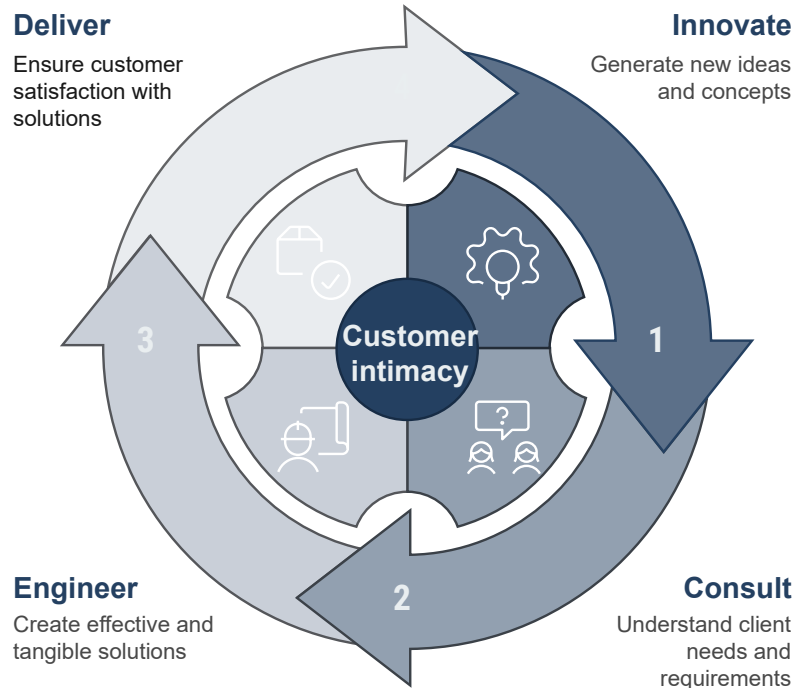
APPROACH

Partnering to Engineer What's Next

At Standex Detect, we go beyond components we engineer complete sensing, switching, and control solutions. Our global team collaborates with customers from concept through production, using deep technical expertise to transform application challenges into optimized, manufacturable designs.

Engineering Control from Design Through Production

- Application-specific magnetic design
- Testing based on real operating loads and lifetime requirements
- Coil, shielding, insulation, and creepage optimized for your system
- PPAP, qualification, and change control managed through a single partner



CAPABILITIES

Proprietary Tooling, Test, and Automation

SCAN TO
EXPLORE OUR
TOOL SHOP
CAPABILITIES



IATF 16949
CERTIFIED



MANUFACTURING

Automated Optical Inspection (AOI)
Auto AT Switch Sorting
SMT Line with Pick & Place & Reflow
Reed Switch Manufacturing
Reed Relay Design & Manufacturing
Automatic CNC Winding & Termination
Bobbin, Layer, & Self-Supporting Winding
Thermoplastic & Thermoset Overmolding
Wave & Selective Soldering
Low Pressure (Hot Melt) & Injection Molding
Potting - 2 Component
Reflow Oven – Multiple Zone Convection
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, ISO9001 & IATF16949 Certifications
ITAR Compliance
Automotive Core Tools
RoHS, REACH, UL, ATEX, IEC-60810-4, IECEx,
VDE, Vds, AEC-Q

TESTING & LAB CAPABILITIES

High Voltage/Partial Discharge Testing
Specialized Lab Testing Equipment:
Network Analyzers, Nanovoltmeters, Gauss /
Teslameters, Fluxmeters, Picoammeters
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

REED SWITCH TECHNOLOGY

Fast, precise, and reliable switching for demanding applications

Standex Detect is one of the world’s largest manufacturers of reed switches and recognized to offer the highest quality and most comprehensive listing of reed switches, covering a broad range of switching and sensing applications.

WHY REED SWITCHES

- Hermetically sealed contacts for stable long-term performance
- Very low leakage for precision measurement systems
- Low capacitance for fast settling and signal integrity
- Long life up to billions of operations
- High isolation capability for kV-level applications

PERFORMANCE SNAPSHOT

Switching voltage:	up to 10 kVDC
Breakdown voltage:	up to 20 kVDC
Insulation resistance:	$>10^{15} \Omega$
Open contact capacitance:	$< 0.2 \text{ pF}$ performance
Life expectancy:	> 1 billion cycles

STANDEX DETECT DIFFERENTIATION

Highly automated reed switch manufacturing for consistent quality and supply

Proprietary life cycle testing with real-time load monitoring

Broad portfolio covering RF, high voltage and low-level switching

Custom engineering support for application-specific designs

DESIGN FEATURES AND BENEFITS

- **Magnetic Switching Point Calibration:** Precisely calibrated pull-in and drop-out thresholds to match specific magnetic field strengths.
- **Hermetically Sealed Construction:** Protects against dust, moisture, and contaminants for superior reliability.
- **Multiple Contact Forms:** Available in Form A (NO), Form B (NC), and Form C (changeover) configurations.
- **Custom Lead Options:** Straight, bent, and lead length options for through-hole, surface mount, or special applications.
- **Miniaturized and High-Power Options:** Engineered for designs ranging from ultraminiature low-power to high-voltage systems.
- **Durability and Longevity:** Proven operation into the billions of switching cycles.
- **Integration Support:** Optional services such as epoxy sealing, conformal coating, and tape-and-reel packaging.

C **UL**® US



REACH
COMPLIANCE

AEC-Q200



AEC-Q101



MK01-H

• MK15-B-2-0E

MK15-B-2

MK22-B-2

MK16-B-2

MK17-B-2

MK17-B-3

MK18-B-3

MK19-B-3



REED SWITCH SELECTION GUIDE

We are the World’s Largest Manufacturer of High-Quality Reed Switches

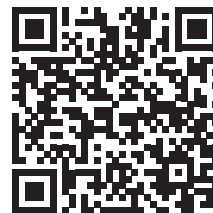
Standex Detect reed switches feature industry-leading hermetic sealing, glass-to-metal processing, and proven reliability in extreme environments. When activated by a magnetic field, they provide an effective method for detecting metal, movement, proximity, liquid level, and flow. With options across multiple sizes, power ratings, and contact forms, our reed switches meet the needs of designs ranging from ultraminiature low-power electronics to high-voltage and high-power systems.

Selection Guides Are Starting Points—not Limitations

		SUPER ULTRAMINI				ULTRAMINIATURE 9-17mm																HIGH POWER (>50W)								
		≤8mm																												
		NEW																												
SWITCH SERIES		KSK-1A80	ORD311	ORD213	ORD3171	KSK-1A87	ORD211	ORD611	KSK-1A35	KSK-1A46	ORD219	ORD312	GP501	ORD221	ORD228VL	KSK-1A66	KSK-1A66/3	ORD624	ORD324	PR560	GP560	ORD325	ORD2211	PR126	NL126	KSK-1A52	MK23-52	KSK-1E85	ORD229	ORD2210V
KEY ATTRIBUTES	Glass/Body Length (mm)	7	7	7	7	10	10	10	10.5	12	12	12	12.7	13	14	14	14	14	14	14.2	14.2	17	16.5	20.3	20.3	21	21	21	21	21
	Long Lifetime (Application dependent)																													
	High-Grade Automotive																													
	High Breakdown Voltage																													
	High In-Rush Current (Lamp Load)																													
	High Power Rating (>20W)																													
	High Carry Current (>2A)																													
	Close Differential																													
	High Stability																													
	AC Line Voltage																													
	Flat Lead																													
	Normally Closed (Form B)																													
	Changeover (Form C)																													
	Bistable / Latching (Form E)																													
Mounting		Axial	Axial	Axial	Axial	Axial	Axial	Axial	Axial	Axial	Axial	Axial	Axial	Axial	Axial	Axial	Axial	Axial	Axial	Axial	Axial	Axial	Axial	Axial	Axial	Axial	SMD	Axial	Axial	Axial
Details on Page #		14	14	14	14	14	14	14	15	15	15	15	15	15	15	16	16	16	16	16	16	16	17	17	17	17	17	17	17	17

Can't find the exact fit?

60%+ of our programs begin with a standard series and end with a custom-engineered sensor or relay designed, validated, and manufactured by Standex Detect.



START A
CONVERSATION

Selection Guides Are Starting Points—not Limitations

		HIGH VOLTAGE (>1 kVDC)			MOLDED SURFACE MOUNT								BARE-GLASS SURFACE MOUNT								SPECIAL						NEW
SWITCH SERIES		KSK-1A35/1	KSK-1A85	MK23-85	MK24	MK31	MK17	MK16	MK22	MK01	MK15	MK30	MK23-80	MK23-87	MK33-87	MK23-35	MK23-46	MK23-66	MK33-66	MK23-90	KSK-1E66	KSK-1C90U	KSK-1C90F	KSK-1B90	ORT551	ORT651	
KEY ATTRIBUTES	Glass/Body Length (mm)	10.5	21	21	5	6.4	8.5	11.6	11.6	18	16	22.5	7	10	10	10.5	12	14	14	14	14	14	14	14	14	14	
	Long Lifetime (Application dependent)																										
	High-Grade Automotive																										
	High Breakdown Voltage																										
	High In-Rush Current (Lamp Load)																										
	High Power Rating (>20W)																										
	High Carry Current (>2A)																										
	Close Differential																										
	High Stability																										
	AC Line Voltage																										
	Flat Lead																										
	Normally Closed (Form B)																										
	Changeover (Form C)																										
Bistable / Latching (Form E)																											
Mounting		Axial	Axial	SMD	SMD	SMD	SMD	SMD	SMD	SMD	SMD	SMD	SMD	SMD	SMD	SMD	SMD	SMD	SMD	SMD	Axial	Axial	Axial	Axial	Axial	Axial	
Details on Page #		18	18	18	18	18	18	18	19	19	19	19	19	19	19	20	20	20	20	20	20	21	21	21	21	21	

SUPER ULTRAMINIATURE <8MM					ULTRAMINIATURE 9-17MM		
Switch Series (*Most Used)	KSK-1A80*	ORD311*	ORD213*	ORD3171	KSK-1A87	ORD211*	ORD611
							
Highlights	• 7mm • Long Life • Close Differential	• 7mm • High Power	• 7mm • Standard	• 7mm • High Power	• 10mm • Standard	• 10mm • Standard	• 10mm • General Purpose
DIMENSIONS IN MM (INCHES)							
Overall Length	35.8 (1.409)	35.8 (1.409)	35.8 (1.409)	35.8 (1.409)	35.7 (1.405)	35.7 (1.405)	35.7 (1.405)
Glass Length Max.	7.0 (0.275)	7.0 (0.275)	7.0 (0.275)	7.0 (0.275)	10.0 (0.393)	10.0 (0.393)	10.0 (0.393)
Glass Dia. Max.	1.8 (0.070)	1.8 (0.070)	1.8 (0.070)	1.8 (0.070)	2.0 (0.078)	2.0 (0.078)	2.0 (0.078)
Lead Dia.	0.3 (0.011)	0.33 (0.013)	0.3 (0.011)	0.4 (0.015)	0.4 (0.015)	0.4 (0.015)	0.4 (0.015)
SPECIFICATIONS							
Contact Form	A	A	A	A	A	A	A
Pull-In Range	10-60 AT	10-40 AT	10-40 AT	10-30 AT	10-45 AT	10-40 AT	8-40 AT
Power Rating Max.	10W	10W	1W	10W	10W	1W	10W
Switching Voltage Max.	170VDC	100VAC / DC	24VAC/DC	170VDC	200VDC	24VAC/DC	200VDC/150AC
Switching Current Max.	0.5A DC	0.5A DC	0.1A DC	0.5A DC	0.5A DC	0.1A DC	0.3A DC
Compliance and Packaging							
Product Page/Datasheet Link							

ULTRAMINIATURE 9-17MM

Switch Series (*Most Used)	KSK-1A35	KSK-1A46	ORD219*	ORD312	GP501*	ORD221	ORD228VL
							
Highlights	• 10.5mm • Flat Lead	• 12mm • Close Differential	• 12mm • Standard	• 12mm • High Power	• 12.7mm • High Stability	• 13mm • Offset	• 14mm • High-Grade Automotive
DIMENSIONS IN MM (INCHES)							
Overall Length	34.5 (1.378)	44.3 (1.744)	44.3 (1.744)	44.3 (1.744)	54 (2.125)	44.2 (1.740)	44.3 (1.744)
Glass Length Max.	10.5 (0.413)	12.0 (0.472)	12.0 (0.472)	12.0 (0.472)	12.7 (0.500)	13.0 (0.512)	14.0 (0.551)
Glass Dia. Max.	2.2 (0.087)	2.0 (0.078)	2.0 (0.078)	2.0 (0.078)	2.3 (0.090)	2.3 (0.090)	2.2 (0.087)
Lead Dia.	1.2 (0.047) x 0.2 (0.008)	0.5 (0.019)	0.5 (0.019)	0.5 (0.019)	0.45 (0.017)	0.35 (0.014) x 0.6 (0.024)	0.5 (0.019)
SPECIFICATIONS							
Contact Form	A	A	A	A	A	A	A
Pull-In Range	5-35 AT	9-35 AT	10-40 AT	10-40 AT	10-35 AT	10-30 AT	10-40 AT
Power Rating Max.	20W	10W	10W	30W	10W	10W	10W
Switching Voltage Max.	200VDC	200VDC	100VAC / DC	200VDC / 100VAC	200VDC	100VAC / DC	100VAC / DC
Switching Current Max.	1.0A DC	0.1A DC	0.5A DC	0.5A DC	0.5A DC	0.3A DC	0.5A DC
Compliance and Packaging							
Product Page/Datasheet Link							

ULTRAMINIATURE 9-17MM

Switch Series (*Most Used)	KSK-1A66	KSK-1A66/3	ORD624*	ORD324*	PR560	GP560	ORD325
							
Highlights	• 14mm • High-Grade Automotive	• 14mm • HighPerformance	• 14mm • General Purpose	• 14mm • HighPerformance	• 14.2mm • AC Line Voltage	• 14.2mm • High Stability	• 17mm • Standard
<u>DIMENSIONS IN MM (INCHES)</u>							
Overall Length	44.3 (1.744)	44.3 (1.744)	44.3 (1.744)	44.3 (1.744)	54 (2.125)	54 (2.125)	44.1 (1.736)
Glass Length Max.	14.0 (0.551)	14.0 (0.551)	14.0 (0.551)	14.0 (0.551)	14.2 (0.559)	14.2 (0.559)	17.0 (0.668)
Glass Dia. Max.	2.2 (0.087)	2.2 (0.087)	2.2 (0.087)	2.2 (0.087)	2.3 (0.090)	2.3 (0.090)	2.8 (0.110)
Lead Dia.	0.5 (0.019)	0.5 (0.019)	0.5 (0.019)	0.5 (0.019)	0.6 (0.023)	0.6 (0.023)	0.5 (0.019)
<u>SPECIFICATIONS</u>							
Contact Form	A	A	A	A	A	A	A
Pull-In Range	10-55 AT	10-40 AT	7-30 AT	10-40 AT	20-40 AT	10-50 AT	10-50 AT
Power Rating Max.	10W	10W	10W	10W	10W	10W	10W
Switching Voltage Max.	180VDC	200VDC	200VDC / 150VAC	200VDC / 150VAC	250V DC	200VDC	200VDC/150VAC
Switching Current Max.	0.5A DC	0.5A DC	0.5A DC	0.5A DC	1.0A DC	1.0A DC	1.0A DC
Compliance and Packaging							
Product Page/Datasheet Link							

REED SWITCHES

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.

HIGH POWER (>50W)								
Switch Series (*Most Used)	ORD2211	PR126	NL126	KSK-1A52	MK23-52	KSK-1E85	ORD229	ORD2210V
								
Highlights	• 16.5mm • Lamp Load	• 20.3mm • AC Line Voltage	• 20.3mm • Lamp Load	• 21mm • High Breakdown Voltage	• 21mm • High Breakdown Voltage • Surface Mount	• 21mm • Latching / Bistable	• 21mm • Pressurized High Breakdown Voltage	• 21mm • Vacuum High Breakdown Voltage
DIMENSIONS IN MM (INCHES)								
Overall Length	44.1 (1.736)	54 (2.125)	54 (2.125)	55.4 (2.181)	29.3 (1.153)	24.0 (0.944)-55.4 (2.185)	55.4 (2.181)	55.4 (2.181)
Glass Length Max.	16.5 (0.649)	20.3 (0.799)	20.3 (0.799)	21.0 (0.826)	21.0 (0.826)	21.0 (0.826)	21.0 (0.826)	21.0 (0.826)
Glass Dia. Max.	2.8 (0.110)	2.5 (0.098)	2.5 (0.098)	2.75 (0.108)	2.75 (0.108)	2.8 (0.110)	2.75 (0.108)	2.75 (0.108)
Lead Dia.	0.6 (0.023)	0.7 (0.027)	0.7 (0.027)	0.6 (0.023)	0.6 (0.023)	0.6 (0.023)	0.6 (0.023)	0.6 (0.023)
SPECIFICATIONS								
Contact Form	A	A	A	A	A	E	A	A
Pull-In Range	20-40 AT	20-50 AT	20-50 AT	15-50 AT	15-25 AT	30-50 AT	20-60 AT	20-60 AT
Power Rating Max.	50W	70W	50W	50W	50W	100W	50W	100W
Switching Voltage Max.	100VAC / DC	300VDC	200VDC	350V DC	350V DC	350VDC	350VDC / 300VAC	350VDC / 300VAC
Switching Current Max.	0.5A DC inrush 3A	1.5A DC	1.5A DC	0.5A DC	0.5A DC	1.0A DC	0.7A DC/ 0.5A AC	1.0A DC
Compliance and Packaging								
Product Page/Datasheet Link								

Switch Series (*Most Used)	HIGH VOLTAGE (>1 kVDC)			MOLDED SURFACE MOUNT			
	KSK-1A35/1*	KSK-1A85	MK23-85	MK24	MK31	MK17	MK16
							
Highlights	• 10.5mm • Mini Flat Lead • High Voltage	• 21mm • Vacuum High Power	• 21mm • Vacuum High Power • Surface Mount	• 5.5mm • Worlds Smallest SMD Reed Sensor • Form B option	• 6.9mm	• 9.7mm	• 15.6mm
DIMENSIONS IN MM (INCHES)							
Overall Length	34.5 (1.358)	55.4 (2.181)	29.3 (1.153)	5.5 (0.216)-7.7 (0.303)	6.9 (0.272)-9.7(0.381)	9.7 (0.381)-12.5 (0.492)	15.6 (0.614)-35.8 (1.409)
Glass/Body Length Max.	10.5 (0.413)	21.0 (0.826)	21.0 (0.826)	5.0 (0.197)	6.4 (0.252)	8.5 (0.335)	11.6 (0.457)
Glass Dia./ Body Width Max.	2.2 (0.087)	2.75 (0.108)	2.75 (0.108)	2.2 (0.087)	2.2 (0.087)	2.1 (0.083)	2.3 (0.090)
Glass/Body Height Max.	0.7 (0.027)	0.6 (0.023)	0.6 (0.023)	1.6 (0.063)-2.5 (0.098)	2 (0.079)-2.05 (0.080)	2.1 (0.083)	2.3 (0.090)
Lead Dia.				0.75 (0.295)	0.80 (0.031)	0.5-0.65 (0.020-0.026)	0.6 (0.024)
SPECIFICATIONS							
Contact Form	A	A	A	A, B	A	A	A
Pull-In Range	20-35 AT	15-60 AT	15-25 AT	5-30 AT	5-15 AT	10-30 AT	10-35 AT
Power Rating Max.	10W	100W	50W	3W	3W	10W	10W
Switching Voltage Max.	1,000VDC	1,000V DC	350V DC	30VDC	30VDC	170VDC	200VDC
Switching Current Max.	0.7A DC	1.0A DC	0.5A DC	0.3A DC	0.3A DC	0.25A DC	0.5A DC
Compliance and Packaging							
Product Page/Datasheet Link							

REED SWITCHES

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	MOLDED SURFACE MOUNT				BARE-GLASS SURFACE MOUNT		
Switch Series (*Most Used)	MK22	MK01	MK15	MK30	MK23-80	MK23-87	MK33-87
							
Highlights	• 15.6mm • Flat Lead	• 18mm	• 19.5mm • Form B option	• 22.5mm • High Voltage	• 7mm • Long Life • Close Differential	• 10mm • Long Life	• 10mm • Long Life • High performance in small package • Easy to mount
DIMENSIONS IN MM (INCHES)							
Overall Length	15.6 (0.614)-34.5 (1.358)	18.8 (0.740)	19.5 (0.768)-44.3 (1.744)	28.6 (1.126)-55.4 (2.181)	12.3 (0.484)-13.00 (0.512)	14.9 (0.586)-16.6 (0.654)	13.0 (0.512)
Body Length Max.	11.6 (0.457)	18.0 (0.709)	16.0 (0.230)	22.5 (0.886)	7.0 (0.275)	10.0 (0.394)	10.0 (0.394)
Body Width Max.	2.95 (0.116)	3.7 (0.146)	2.5 (0.98)	3.5 (0.137)	1.8 (0.070)	2.0 (0.079)	2.0 (0.079)
Body Height Max.	2.3 (0.090)	3.4 (0.134)	2.5 (0.98)-3.75 (0.148)	3.5 (0.137)	-	-	2.10 (0.083)
Lead Dia.	1.2 (0.047)	0.6 (0.024)	0.7 (0.275)	0.6 (0.024)	0.3 (0.011)	0.4 (0.015)	-
SPECIFICATIONS							
Contact Form	A	A, B, C	A, B	A	A	A	A
Pull-In Range	10-30 AT	10-25 AT	10-40 AT	15-30 AT	10-40 AT	10-40 AT	10-40 AT
Power Rating Max.	20W	10VA	10W	100W	10W	10W	10W
Switching Voltage Max.	200V DC	200VDC	180VDC	1,000VDC	170VDC	200VDC	200VDC
Switching Current Max.	1.0A DC	0.5A DC	0.5A DC	1.0A DC	0.5A DC	0.4A DC	0.4A DC
Compliance and Packaging							
Product Page/Datasheet Link							

BARE-GLASS SURFACE MOUNT

SPECIAL

Switch Series (*Most Used)

MK23-35

MK23-46

MK23-66

MK33-66

MK23-90

KSK-1E66

KSK-1C90F



Highlights	• 10.5mm • Mini Flat Lead	• 12mm • Close Differential	• 14mm • High-Grade Automotive	• 14mm • High-Grade Automotive • Barrel Lead	• 14mm • Changeover NC Dog Leg Bend	• 14mm • Latching / Bistable	• 14mm • Changeover NC Dog Leg Bend
DIMENSIONS IN MM (INCHES)							
Overall Length	15.4 (0.606)-19.9 (0.775)	16.9 (0.665)-18.3 (0.720)	17.0 (0.669)-19.9 (0.783)	17.95 (0.707)	24.9 (0.980)-25.9 (1.019)	19.5 (0.767)-20.5 (0.787)	55.0 (2.17)
Glass Length Max.	10.5 (0.413)	12.0 (0.472)	14.0 (0.551)	14.0 (0.551)	14.0 (0.551)	14.0 (0.551)	14.0 (0.551)
Glass Dia. Max.	2.2 (0.087)	2.0 (0.079)	2.2 (0.087)	2.2 (0.087)	2.54 (0.1)	2.2 (0.086)	2.54 (0.1)
Glass Height Max.	-	-	-	2.3 (0.090)	-	-	-
Lead Dia.	1.2 (0.047) x 0.2 (0.008)	0.5 (0.019)	0.5 (0.019)	-	0.5 (0.019)	0.5 (0.019)	0.5 (0.019)
SPECIFICATIONS							
Contact Form	A	A	A	A	C	E	C
Pull-In Range	10-25 AT	10-25 AT	10-40 AT	10-40 AT	15-40 AT	30-50 AT	10-50 AT
Power Rating Max.	15W	10W	10W	10W	3W	10W	10W
Switching Voltage Max.	200VDC	200VDC	180VDC	200VDC	30VDC	100VDC	175VDC
Switching Current Max.	1.0A DC	0.5A DC	0.5A DC	0.5A DC	0.2A DC	0.5A DC	0.5A DC
Compliance and Packaging							
Product Page/Datasheet Link							

REED SWITCHES

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.

SPECIAL

Switch Series (*Most Used)	KSK-1C90U	KSK-1B90	ORT-551	ORT-651
				
Highlights	• 14mm • Changeover	• 14mm • Normally Closed	• 14mm • Changeover	• 14mm • Changeover
DIMENSIONS IN MM (INCHES)				
Overall Length	56.1 (2.208)	55.1 (2.169)	56.1 (2.208)	56.1 (2.208)
Glass Length Max.	14.0 (0.551)	14.0 (0.551)	14.0 (0.551)	14.0 (0.551)
Glass Dia. Max.	2.54 (0.1)	2.54 (0.1)	2.54 (0.1)	2.54 (0.1)
Glass Height Max.	-	-	0.5 (0.019)	0.5 (0.019)
Lead Dia.	0.5 (0.019)	0.5 (0.019)		
SPECIFICATIONS				
Contact Form	C	B	C	C
Pull-In Range	10-45 AT	15-45 AT	10-30 AT	10-30 AT
Power Rating Max.	3W	10W	3W	3W
Switching Voltage Max.	30VDC	175VDC	30VDC	24VAC/DC
Switching Current Max.	0.2A DC	0.5A DC	0.2A DC	0.2A DC
Compliance and Packaging				
Product Page/Datasheet Link				

Vertical Integration and In-House Manufacturing

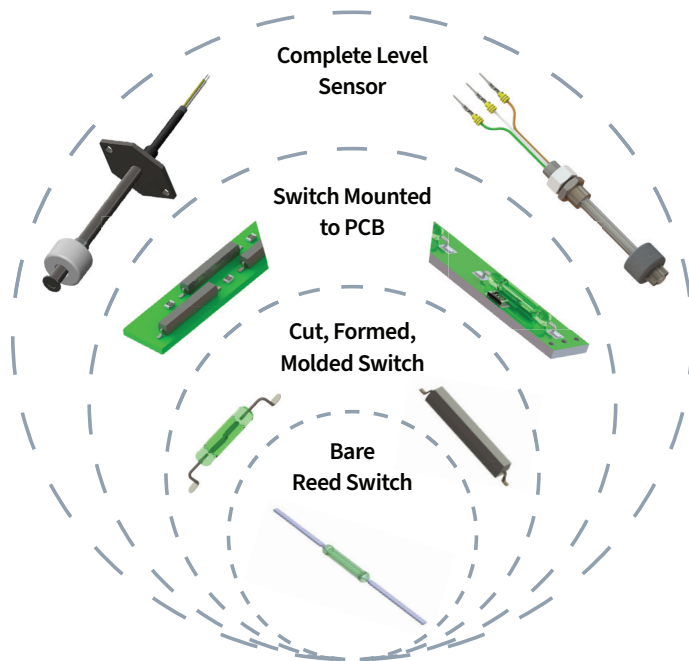
Engineered for Your Application

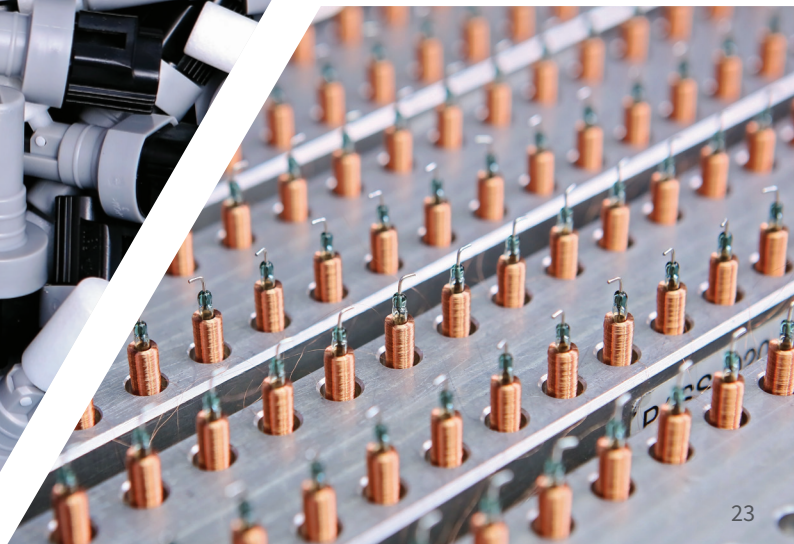
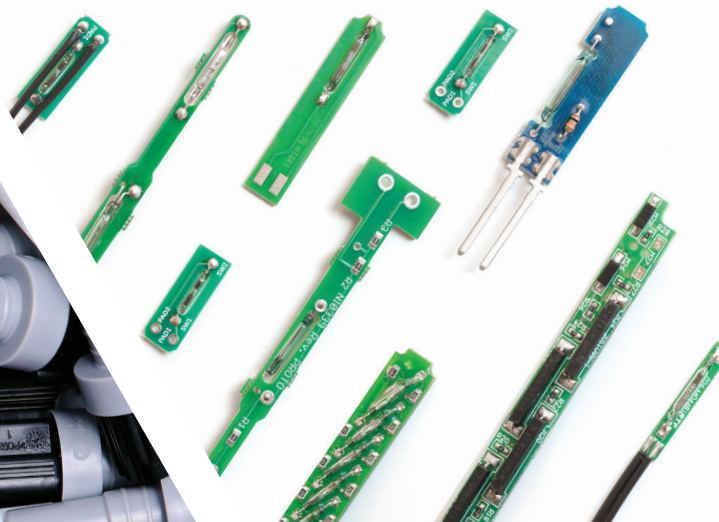
Standex Detect's engineering expertise combines decades of reed switch design experience with advanced manufacturing and testing capabilities. We control every step of the reed switch manufacturing process, from glass encapsulation and hermetic sealing to plating, trimming, and forming, ensuring complete quality assurance and consistency.

As a vertically integrated company, we have the capability to manufacture almost all components in-house. This high level of internal control reduces reliance on external suppliers, mitigating risks and delays associated with complex external supply chains. Our control over the entire production process, from start to finish, ensures consistency and reliability.

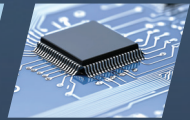
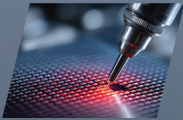
Our custom design process allows for adjustment of critical parameters such as magnetic pull-in and drop-out sensitivity, contact form (A, B, or C), lead length, and plating material. Engineers can also specify special mechanical configurations including bent leads, surface-mount terminations, or encapsulated housings to accommodate unique board layouts or environmental conditions.

To guarantee reliable performance, each reed switch undergoes rigorous testing including magnetic sensitivity verification, thermal cycling, shock and vibration endurance, and long-term life testing under real-world load conditions.





Where You'll Find Standex Reed Switches



ATE / TEST & MEASUREMENT

Our reed switches support Test & Measurement applications by cleanly switching low- and high-level loads and passing ultra-fast picosecond digital pulses in a 50-ohm environment, with excellent isolation and signal integrity.

COMPUTING & DATA CENTERS

High-quality reed switches provide contactless reliable cabinet door monitoring, rack access detection, and tamper alerts, delivering high-performance, space-efficient technologies that support secure, scalable, and energy-conscious infrastructure across modern data centers.

EV / AUTOMOTIVE / TRANSPORTATION

Rugged reed switches are used in fluid level, brake, and transmission sensors; seatbelt and door latch detection in electric vehicle and automotive and transportation systems, ensuring real-time monitoring, automation, and reliability across all modes of modern transportation.

INDUSTRIAL AND AUTOMATION

Reed switches are hermetically sealed for durability in rugged environments. Ideal for use in safety interlocks, fluid level detection, flow control, and position and limit sensing within industrial machinery and automation systems.

MEDICAL EQUIPMENT

Hermetically sealed reed switches are magnetically operated and ideal for sterile and sealed environments in fluid flow sensing, actuator position monitoring, and patient safety systems.

RENEWABLE ENERGY

Reliable reed switches provide flow and level detection and isolation switching in inverter control systems as well as contactless sensing for enclosure access, actuator position, and safety interlocks in solar, wind, and energy storage systems.

SMART HOME & CONSUMER ELECTRONICS

Compact reed switches deliver reliable switching in contactless detection for door/lid closure, docking detection, fluid level monitoring, and safety interlocks in washers, refrigerators, and HVAC systems, and magnetic actuation in compact consumer devices.

Ready to Optimize Your Next Design?

For When it Matters - The Right Design, at the Right Time, at the Optimal Cost

Custom reed switches are vital to achieving accurate, dependable switching in advanced electronic systems. Standex Detect designs and manufactures custom reed switches to meet specific magnetic, electrical, and mechanical parameters, ensuring reliable operation across billions of cycles and in the harshest environments.

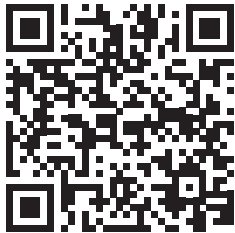
Our engineering team collaborates with OEMs to create customized solutions tailored to precise activation ranges, contact configurations, mounting styles, and environmental conditions. Whether optimizing for miniaturization, high power, or high sensitivity, Standex Detect custom reed switches deliver the proven durability and performance required for your application.

Let's Engineer What's Next Together!

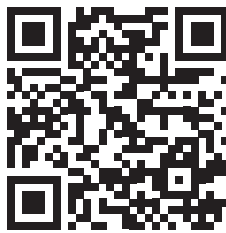
We do not ask customers to “fit” standard parts. We engineer parts that fit the application.

To learn more about how Standex Detect can support your projects with custom reed switches, visit

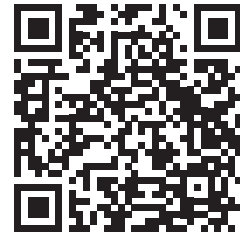
standexdetect.com or contact our engineering team to discuss your specific application needs.



START A
CONVERSATION



REQUEST
A SAMPLE



FIND A
DISTRIBUTOR

Note: Product selection information is provided as general guidance only. Suitability depends on the customer's specific application, operating conditions, required reliability, and applicable standards. Final component selection and validation remain the responsibility of the user.



A Standex **Electronics** Business

The modern world pulses with silent signals that activate, safeguard, and synchronize the systems that underpin everyday life. As automation, renewable energy, transportation, and smart environments evolve into autonomous, adaptive networks, everything begins with one capability: the power to **Detect** what's next.

Standex Electronics delivers the high-performance sensing and switching solutions that enable this future. Through customer intimacy and deep technical collaboration, we listen, design, refine, and deliver solutions built for unwavering reliability.

Our expertise in reed switches, sensors, and relays enables equipment to sense position, measure speed, **Detect** presence, ensure safety, and control power with precision. We're advancing Detection at the speed of innovation for when it matters. Delivering the right design, at the right time, at the optimal cost.

Tomorrow's breakthroughs depend on our ability to Detect instantly, quietly, and reliably.

Welcome to **Standex Detect**.



STANDEX DETECT
LOCATIONS

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