



Sensor & Relay Selection Guide

Reed Switches // Hall Effect Sensors // Reed Sensors

Fluid Sensors // Reed Relays // Solid State Relays // Optocouplers

PARTNER | SOLVE | DELIVER®

Customer-Focused Solutions

Standex Electronics is a worldwide market leader in the design, development, and manufacture of standard reed switch-based solutions & custom magnetics and power conversion components and assemblies. Through customer-first attitude, and our collaborative approach, we help customers win in the market. The problems we solve through engineering parts that go into automobiles, airplanes, medical devices, appliances, HVAC, food service, hydraulics, and more allow for cars to start, planes to fly, stoves to heat, refrigerators to cool, pipes to flow, and humans, homes, and companies to use water, power, and other resources more efficiently.

Standex Electronics *at a Glance*

Publicly traded

division of Standex International Corporation (NYSE:SXI)

Global

geographic coverage through facilities in North America, Europe, and Asia

\$240M

in annual revenue

1,500+

employees worldwide

Fairfield, OH

division headquarters

Diverse

capabilities for custom or standard product solutions

70+

years of innovation

What We Do

PARTNER | SOLVE | DELIVER®



PARTNER // TEAMWORK

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



DELIVER // QUALITY

Help customers win through delivering solutions and products that address your needs as a business.



SOLVE // UNDERSTAND

Confronting a challenge to solve through our diverse products and dynamic capabilities.

Product Solutions



REED SWITCHES



REED RELAYS



MAGNETICS



SENSORS



Global Locations



Capabilities

MANUFACTURING

- Automated Optical Inspection (AOI)
- Auto AT Switch Sorting
- Reed Switch, Sensor, & Relay Manufacturing SMT
- Line with Pick & Place & Reflow
- Reflow Oven – Multiple Zone Convection
- Thermoplastic & Thermoset Molding
- Low Pressure (Hot Melt) & Injection Molding
- Wire Prep & Harness Assembly
- 52 to 5awg Magnetic Wire Winding
- Foil, Flat, & Square Wire Winding
- Automatic CNC Winding
- Bobbin, Layer, & Self-Supporting Winding
- Toroidal Hook & Shuttle Winding
- Potting – 2 Component
- Impregnation, Casting, & Potting
- Void-Free Vacuum Potting
- Wave & Selective Soldering
- NASA Certified Soldering
- Laser Welding
- Plasma Surface Treatment

- Lean Manufacturing Principles
- Stainless Steel, Metal & Plastic Fabrication
- Complete, In-House Machine Shop

- Automotive Core Tools
- RoHS, REACH, UL, AEC-Q200, ATEX & IECEx, VDE, Vds

ENGINEERING

- Electronic Sensor Engineering
- Circuit Design and PCB Layout
- 3-D Magnetic Sensor Mapping
- 3-D CAD Modeling & 3-D Printing
- Mechanical Design & Packaging
- Rapid Prototyping
- Magnetic Simulation Software
- Mechanical, Thermal & FEA Analysis
- Plastic Mold Flow Simulation
- APQP Project Management

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



QUALITY & COMPLIANCE

- AS9100, ISO9001 & IATF16949 Certifications
- ITAR Compliance

















































Main Markets & Applications


















- Aerospace & Military
- Alternative Energy
- Automotive / Transportation
- Heavy Duty Truck
- Electric Power & Utilities
- Fluid Flow
- Food Service
- Medical
- Smart Grid & Metering
- Industrial & Power
- Test & Measurement
- Security & Safety
- Household & Appliances
- HVAC / R
- Pool / Spa
- Lighting

















































Product Series	Series Type / Brand	Contact Form () Configuration	Operate Range (AT)	Contact Rating (W)	Switching Voltage (V)	Switching Current (A)	Overall Length (mm)	Glass Length (mm)	Lead Diameter (mm)	Operating Temperature (C°)	Special Feature	Compliance
GP400	KENT 10-20 mm	(A) SPST-NO	7~30	10	180	0.5	2.125" (54.0)	0.394" (10.0)	0.017" (0.43)	-40 to 125	Miniature, Professional Grade	
GP501		(A) SPST-NO	10~35	10	200	0.5	2.125" (54.0)	0.500" (12.7)	0.017" (0.43)	-40 to 125	Miniature, High Stability	
GP560		(A) SPST-NO	10~50	10	200	1.0	2.125" (54.0)	0.559" (14.2)	0.023" (0.60)	-40 to 125	Miniature, High Stability	
PR560		(A) SPST-NO	20~40	10	100 VDC / 250 VAC	1.0	2.125" (54.0)	0.599" (14.2)	0.023" (0.60)	-40 to 130	AC Line Voltage	
GP100		(A) SPST-NO	10~40	10	100 VDC / 150 VAC	1.0	2.125" (54.0)	0.799" (20.3)	0.023" (0.60)	-40 to 125	Mid Power, Professional Grade	
NL126		(A) SPST-NO	20~50	50	200 VDC / 150 VAC	1.5	2.125" (54.0)	0.799" (20.3)	0.027" (0.70)	-40 to 130	Lamp Load	
PR126		(A) SPST-NO	20~50	70	300 VAC / 200 VDC	1.5	2.125" (54.0)	0.799" (20.3)	0.027" (0.70)	-40 to 130	Line Voltage	
KSK-1A80	MEDER electronic < 8 mm	(A) SPST-NO	10~40	10	170	0.5	1.410" (35.8)	0.275" (7.0)	0.011" (0.30)	-40 to 130	Ultraminiature, Close Differential, Long Life	
KSK-1A87	MEDER electronic 9-14 mm	(A) SPST-NO	10~40	10	200	0.4	1.405" (35.7)	0.393" (10.0)	0.015" (0.40)	-40 to 130	Miniature, Long Life	
KSK-1A35		(A) SPST-NO	10~40	20	200	1.0	1.358" (34.5)	0.413" (10.5)	0.047" (1.20) 0.008" (0.20)	-40 to 130	Miniature, Flat Lead	
KSK-1A35/1		(A) SPST-NO	10~40	50	500	2.0	1.358" (34.5)	0.413" (10.0)	0.047" (1.20) 0.008" (0.20)	-40 to 130	Miniature, High Voltage	
KSK-1A31		(A) SPST-NO	10~40	50	500	2.0	1.614" (41.0)	0.433" (11.0)	0.019" (0.50)	-40 to 130	Miniature, Mercury	
KSK-1A46		(A) SPST-NO	10~40	10	200	0.5	1.744" (44.3)	0.472" (12.0)	0.019" (0.50)	-40 to 130	Miniature, Close Differential	
KSK-1A66		(A) SPST-NO	10~40	10	180	0.5	1.744" (44.3)	0.551" (14.0)	0.019" (0.50)	-40 to 130	Miniature, High Automotive Grade	
KSK-1E66		(E) Latching	30~40	10	100	0.5	1.744" (44.3)	0.551" (14.0)	0.019" (0.50)	-40 to 130	Latching, High Automotive Grade	




Product Series	Series Type / Brand	Contact Form () Configuration	Operate Range (AT)	Contact Rating (W)	Switching Voltage (V)	Switching Current (A)	Overall Length (mm)	Glass Length (mm)	Lead Diameter (mm)	Operating Temperature (C°)	Special Feature	Compliance
KSK-1A66/3	 9-14 mm	(A) SPST-NO	10~40	10	200	0.5	1.744" (44.3)	0.551" (14.0)	0.019" (0.50)	-40 to 130	High Performance, Miniature	  
KSK-1C90F		(C) SPDT	15~45	10	175	0.5	2.145" (54.5)	0.551" (14.0)	0.019" (0.55)	-40 to 130	Miniature, Change Over, Dog Leg Bend	  
KSK-1B90U		(B) SPST-NC	15~45	10	175	0.5	2.169" (55.1)	0.551" (14.0)	0.019" (0.55)	-40 to 130	Change Over	  
KSK-1C90U		(C) SPDT	15~45	10	175	0.5	2.169" (55.1)	0.551" (14.0)	0.019" (0.50)	-40 to 130	Miniature, Change Over	  
KSK-1A55	 16-21 mm	(A) SPST-NO	15~60	50	100	0.5	1.736" (44.1)	0.649" (16.5)	0.023" (0.60)	-40 to 130	Lamp Load	
KSK-1A53		(A) SPST-NO	-	10	200	1.0	2.165" (55.0)	0.807" (20.5)	0.023" (0.60)	-40 to 130	High Frequency	  
KSK-1A52		(A) SPST-NO	15~70	50	350	0.5	2.181" (55.4)	0.826" (21.0)	0.023" (0.60)	-40 to 130	High Breakdown Voltage	
KSK-1A85		(A) SPST-NO	15~55	100	1000	1.0	2.185" (55.5)	0.826" (21.0)	0.023" (0.60)	-40 to 130	Vacuum, High Power	  
KSK-1B85		(B) SPST-NO	15~55	100	1000	1.0	2.185" (55.5)	0.826" (21.0)	0.023" (0.60)	-40 to 130	Vacuum, High Power, Normally Closed	  
KSK-1E85		(E) Latching	30~55	100	1000	1.0	2.185" (55.5)	0.826" (21.0)	0.023" (0.60)	-40 to 130	Latching	 
KSK-C10	 Special	(C) SPDT	60~80	100	500	3.0	3.390" (86.1)	1.350" (34.3)	0.040" (1.01)	-40 to 130	High Current, Changeover	
KSK-1A33		(A) SPST-NO	80~100	50	10000	3.0	3.110" (79.0)	2.047" (52.0)	0.019" (0.50)	-40 to 130	High Current	
KSK-1A83		(A) SPST-NO	100~150	50	7500	3.0	3.212" (81.6)	2.102" (53.4)	2.490" (0.98) 0.021" (0.54)	-20 to 130	High Current, Flat Lead	
KSK-1A69		(A) SPST-NO	95~170	50	10000	3.0	3.212" (81.6)	2.102" (53.4)	2.490" (0.98) 0.021" (0.54)	-40 to 130	High Current, Flat Lead	
KSK-1A54		(A) SPST-NO			25	500	1.5	3.212" (81.6)	2.102" (53.4)	0.051" (1.30)	-40 to 130	High Frequency















Product Series	Series Type / Brand	Contact Form () Configuration	Operate Range (AT)	Contact Rating (W)	Switching Voltage (V)	Switching Current (A)	Overall Length (mm)	Glass Length (mm)	Lead Diameter (mm)	Operating Temperature (C°)	Special Feature	Compliance
ORD 213	KOFU STANDER (C) (C) (C) (C) (C) (C) < 8 mm	(A) SPST-NO	10~40	1	24 VAC/ DC	0.1	1.409" (35.8)	0.275" (7.0)	0.011" (0.30)	-40 to 125	Super ultra-miniature	   
ORD 311		(A) SPST-NO	10~40	10	100 VAC/ DC	0.5	1.409" (35.8)	0.275" (7.0)	0.013" (0.33)	-40 to 125	Super ultra-miniature Long-life	   
ORD 211	KOFU STANDER (C) (C) (C) (C) (C) (C) 9-14 mm	(A) SPST-NO	10~40	1	24 VAC/ DC	0.1	1.405" (35.7)	0.394" (10.0)	0.015" (0.40)	-40 to 125	Ultra-miniature	   
ORD 219		(A) SPST-NO	10~40	10	100 VAC/ DC	0.5	1.744" (44.3)	0.472" (12.0)	0.019" (0.50)	-40 to 125	Miniature High-performance	   
ORD 312		(A) SPST-NO	10~40	30	200 VDC/ 100 VAC	0.5	1.744" (44.3)	0.472" (12.0)	0.019" (0.50)	-40 to 125	High-power Long-life	   
ORD 221		(A) SPST-NO	10~30	10	100VAC/ DC	0.3	1.740" (44.2)	0.512" (13.0)	0.014" (0.35) 0.024" (0.60)	-40 to 125	Miniature Offset	   
ORD 2221		(A) SPST-NO	10~30	10	100VAC/ DC	0.3	2.232" (56.7)	0.512" (13.0)	0.014" (0.35) 0.024" (0.60)	-40 to 125	Miniature Offset Long Lead	   
ORD 228VL		(A) SPST-NO	10~40	10	100 VAC/ DC	0.5	1.744" (44.3)	0.551" (14.0)	0.019" (0.50)	-40 to 125	Miniature High-performance	   
ORD 324		(A) SPST-NO	10~40	10	200 VDC/ 150 VAC	0.5	1.744" (44.3)	0.551" (14.0)	0.019" (0.50)	-40 to 125	General Purpose Miniature	   
ORD 324H		(A) SPST-NO	10~40	10	200 VDC/ 150 VAC	0.5	2.232" (56.7)	0.551" (14.0)	0.019" (0.50)	-40 to 125	General Purpose Miniature Long Lead	   
ORT 551		(C) SPDT	10~30	3	30 VAC/ DC	0.2	2.208" (56.1)	0.551" (14.0)	0.019" (0.50)	-40 to 125	Ultra-miniature Transfer	   
ORT 551-1		(C) SPDT	10~30	3	30 VAC/ DC	0.2	2.169" (55.1)	0.551" (14.0)	0.019" (0.50)	-40 to 125	Ultra-miniature Transfer NC Dog Leg Bend	   









Product Series	Series Type / Brand	Contact Form () Configuration	Operate Range (AT)	Contact Rating (W)	Switching Voltage (V)	Switching Current (A)	Overall Length (mm)	Glass Length (mm)	Lead Diameter (mm)	Operating Temperature (C°)	Special Feature	Compliance
ORD 2211	KOFU 16-21 mm	(A) SPST-NO	20~40	50	100 VAC/ DC	0.5 inrush 3	1.736" (44.1)	0.649" (16.5)	0.023" (0.60)	-40 to 125	Lamp Load	  
ORD 2211H		(A) SPST-NO	20~40	50	100 VAC/ DC	0.5 inrush 3	2.244" (57.0)	0.649" (16.5)	0.023" (0.60)	-40 to 125	Lamp Load Long Lead	 
ORD 9215		(A) SPST-NO	10~50	10	100 VAC/ DC	0.4	1.736" (44.1)	0.068" (17.0)	0.019" (0.50)	-40 to 125	General Purpose Miniature	  
ORD 229		(A) SPST-NO	20~60	50	350 VDC/ 300 VAC	0.7 ADC/ 0.5 AAC	2.181" (55.4)	0.826" (21.0)	0.023" (0.60)	-40 to 125	High Breakdown Voltage	  
ORD 2210		(A) SPST-NO	15~60	50	200 VDC/ 150 VAC	1.0 ADC/ 0.7 AAC	2.181" (55.4)	0.826" (21.0)	0.023" (0.60)	-40 to 125	High Power	  
ORD 2210V		(A) SPST-NO	20~60	100	350 VDC/ 300 VAC	1.0	2.181" (55.4)	0.826" (21.0)	0.023" (0.60)	-40 to 125	Vacuum High Power	  











Product Series	Series Type	Contact Form () Configuration	Operate Range (AT)	Contact Rating (W)	Switching Voltage (V)	Switching Current (A)	Length (mm)	Size Body Inches (mm)	Termination	Packaging	Brand	Compliance
MK23-80	Bare Glass Surface Mount	(A) SPST-NO	10~40	10	170	0.5	0.484" (12.30) 0.525" (13.30)	0.275" L (7.0) 0.070" D (1.80)	Axial, Gull Wing Short	Tape & Reel	Meder	  
MK23-87		(A) SPST-NO	10~40	10	200	0.4	0.586" (14.9) 0.653" (16.6)	0.393" L (10.0) 0.078" D (2.00)	SMD, Gull Wing Short		Meder	  
MK23-35		(A) SPST-NO	10~30	20	200	1.0	0.614" (15.60) 0.620" (15.75) 0.775" (19.90)	0.413" L (10.5) 0.082" D (2.10)	Axial, Gull Wing Short, Gull Wing Long	Tape & Reel	Meder	  
MK23-46		(A) SPST-NO	10~25	10	180	0.5	0.665" (16.90) 0.730" (18.55)	0.472" L (12.0) 0.078" D (2.00)	Axial, Gull Wing Short, Gull Wing Long	Tape & Reel	Meder	  
MK23-66		(A) SPST-NO	10~40	10	180	0.5	0.740" (18.80) 0.772" (19.60) 0.809" (20.55)	0.551" L (14.0) 0.086" D (2.20)	Axial, Gull Wing Short, Gull Wing Long	Tape & Reel	Meder	  
MK23-90		(C) SPDT	15~45	10	175	0.5	0.980" (24.9) 1.019" (25.9)	0.551" L (14.0) 0.100" D (2.54)	SMD, Axial, SMD, Gull Wing Short		Meder	  
MK23-52		(A) SPST-NO	15~70	50	350	0.5	1.098" (27.90) 1.165" (29.60)	0.826" L (21.0) 0.108" D (2.75)	Gull Wing Short	Tape & Reel	Meder	  
MK23-85		(A) SPST-NO	15~55	100	1000	1.0	1.098" (27.9) 1.165" (29.6)	0.826" L (21.0) 0.108" D (2.75)	SMD, Axial SMD, Gull Wing Short, Vacuum, High Power		Meder	  






Product Series	Series Type	Contact Form () Configuration	Operate Range (AT)	Contact Rating (W)	Switching Voltage (V)	Switching Current (A)	Length (mm)	Size Body Inches (mm)	Termination	Packaging	Brand	Compliance
MK24	Overmolded Surface Mount	(A) SPST-NO (B) SPST-NC	5~30	3	30	0.3	0.303" (7.70) 0.276" (7.00) 0.217" (5.50)	0.197" L (5.00) 0.087" W (2.20) 0.063" H (1.60)	Axial, Gull Wing Short, J Bend	Tape & Reel	Meder	  
MK31		(A) SPST-NO	5~30	3	30	0.3	0.272" (6.90) 0.337" (8.55)	0.252" L (6.40) 0.087" W (2.20) 0.071" H (1.80)	J Bend, Gull Wing Short	Tape & Reel	Meder	  
MK17		(A) SPST-NO	10~40	10	170	0.25	0.492" (12.50) 0.484" (12.30) 0.382" (9.70)	0.335" L (8.50) 0.083" W (2.10) 0.083" H (2.10)	Axial, Gull Wing Short, J Bend	Tape & Reel	Meder	  
MK16		(A) SPST-NO	10~60	10	200	0.5	0.614" (15.60)	0.457" L (11.60) 0.091" W (2.30) 0.091" H (2.30)	Axial, Gull Wing Short	Tape & Reel	Meder	  
MK22		(A) SPST-NO	10~30	20	200	1.0	1.358" (34.50) 0.614" (15.60) 0.768" (19.50)	0.457" L (11.60) 0.116" W (2.95) 0.091" H (2.30)	Axial, Gull Wing Short, Gull Wing Long	Tape & Reel	Meder	  
MK15		(A) SPST-NO (B) SPST-NC*	10~60	10	200	0.5	0.768" (19.50)	0.630" L (16.00) 0.098" W (2.50) 0.098" H (2.50) 0.148" H (3.75)*	Axial, Gull Wing Short	Tape & Reel	Meder	  
MK01		(A) SPST-NO (B) SPST-NC (C) SPDT	10~60	10	200	0.5	0.740" (18.80)	0.709" L (18.00) 0.146" W (3.70) 0.134" H (3.40)	J Bend	Tape & Reel	Meder	  
MK30		(A) SPST-NO	15~50	100	1000	1.0	1.126" (28.6)	0.886" L (22.50) 0.138" W (3.50) 0.138" H (3.50)	Gull Wing Short	Tape & Reel	Meder	























Product Series	Series Type	Function Type	Sensing Range On/Off (Gauss)	Voltage Supply (VDC)	Current Supply	Output Leakage Current Max. (µA)	Output On Voltage Typ. (mV)	Chopping Frequency Typ. (KHz)	Operating Temperature (C°)	Cable Length (mm)	Compliance	
MH04	Screw Flange	Switch	37 / 31	2.5 - 3.5	2	1	100	340	-40 to 85	300, 500		
		Latch	22 / -23	3.0 - 24.0	4	10	185	800				
		Switch	35 / 25	3.0 - 24.0	4	10	185	800				
MH21			Switch	37 / 31	2.5 - 3.5	2	1	100	340	-40 to 85	300, 500	
		Latch	22 / -23	3.0 - 24.0	4	10	185	800				
		Switch	35 / 25	3.0 - 24.0	4	10	185	800				
MH32			Switch	37 / 31	2.5 - 3.5	2	1	100	340	-40 to 85	300, 500	
		Latch	22 / -23	3.0 - 24.0	4	10	185	800				
		Switch	35 / 25	3.0 - 24.0	4	10	185	800				















Product Series	Series Type	Contact Form () Configuration	Operate Range (AT)	Contact Rating (W)	Switching Voltage (V)	Switching Current (A)	Cable Length (mm)	Size Body inches (mm)	Termination	Packaging	Compliance
MK02/6	Through Hole	(A) SPST-NO	3.5~5.5mm	10	170	0.5	n/a	0.945" L (24.00) 0.350" W (8.90) 0.303" H (7.70)	Cable, Round	Bulk	
MK02/7		(A) SPST-NO	7.0~10.0mm	10	200	0.5	n/a	1.594" L (40.50) 0.343" W (8.70) 0.500" H (12.70)	Cable, Round	Bulk	
MK06-4		(A) SPST-NO	10~60	10	170	0.5	n/a	0.470" L (12.06) 0.130" W (3.30) 0.240" H (6.20)	PC Pin	Bulk	 
MK06-5		(A) SPST-NO (B) SPST-NC*	10~60	10	180	0.5	n/a	0.563" L (14.30) 0.110" W (2.80) 0.240" H (6.10-7.10*)	PC Pin	Bulk	 
MK06-6		(A) SPST-NO (B) SPST-NC	10~60	10	180	0.5	n/a	0.679" L (17.24) 0.130" W (3.30) 0.280" H (7.10)	PC Pin	Bulk	 
MK06-7		(A) SPST-NO	10~60	10	180	0.5	n/a	0.779" L (19.78) 0.130" W (3.30) 0.280" H (7.10)	PC Pin	Bulk	 
MK06-8		(A) SPST-NO (C) SPDT	10~60	10	180	0.5	n/a	0.879" L (22.32) 0.130" W (3.30) 0.280" H (7.10)	PC Pin	Bulk	 
MK06-10		(C) SPDT (E) Latching*	10~60	10	180 350-500*	0.5	n/a	1.122" L (28.50) 0.150" W (3.81) 0.325" H (8.26)	PC Pin	Bulk	 


























Product Series	Series Type	Contact Form () Configuration	Operate Range (AT)	Contact Rating (W)	Switching Voltage (V)	Switching Current (A)	Cable Length (mm)	Size Body Inches (mm)	Termination	Packaging	Compliance
MK02	Screw Flange	(A) SPST-NO (B) SPST-NC (C) SPDT	4.5~15mm	10	200	0.5	(200, 300, 500, 1000, 1500, 2000, 3000, 5000)	1.276" L (32.40) 0.661" W (16.80) 0.394" H (10.00)	Cable, Round	Bulk	
MK04		(A) SPST-NO (B) SPST-NC (C) SPDT	10~60	10	400	0.5	(200, 300, 500, 1000, 1500, 2000, 3000, 5000)	0.906" L (23.00) 0.547" W (13.90) 0.232" H (5.90)	Cable, Flat Cable, Round	Bulk	
MK05		(A) SPST-NO (B) SPST-NC (C) SPDT	10~60	10	400	0.5	(200, 300, 500, 1000, 1500, 2000, 3000, 5000)	0.906" L (23.00) 0.764" W (19.40) 0.232" H (5.90)	Cable, Flat Cable, Round	Bulk	
MK13		(A) SPST-NO (B) SPST-NC	10~60	10	400	0.5	(200, 300, 500, 1000, 1500, 2000, 3000, 5000)	0.906" L (23.00) 0.547" W (13.90) 0.232" H (5.90)	Cable, Flat Cable, Round	Bulk	
MK21		(A) SPST-NO (B) SPST-NC (C) SPDT	10~60	100	1000	1.0	(500, 1000, 1500, 2000, 3000, 5000)	1.122" L (28.50) 0.748" W (19.00) 0.246" H (6.25)	Cable, Round	Bulk	
MK26		(A) SPST-NO (B) SPST-NC (C) SPDT	10~60	100	1000	1.0	(200, 300, 500, 1000, 1500, 2000, 3000, 5000)	1.260" L (32.00) 0.394" W (10.00) 0.236" H (6.00)	Cable, Round	Bulk	
MK27		(A) SPST-NO	10~60	100	1000	1.0	(500)	1.969" L (50.00) 0.787" W (20.00) 0.394" H (10.00)	Cable, Round	Bulk	
MK28		(A) SPST-NO (B) SPST-NC (C) SPDT	Exact	10	175	0.5	(500)	1.000" L (25.40) 0.750" W (19.05) 0.250" H (6.35)	Cable, Round	Bulk	









Product Series	Series Type	Contact Form () Configuration	Operate Range (AT)	Contact Rating (W)	Switching Voltage (V)	Switching Current (A)	Cable Length (mm)	Size Body inches (mm)	Termination	Packaging	Compliance
MK11 Stainless	Threaded Cylinder	(A) SPST-NO (B) SPST-NC (C) SPDT	10~60	10	200	0.5	(200, 300, 500, 1000, 1500, 2000, 3000, 5000)	0.984" L (25.00) x M5 x 0.020" Thread (0.50) 0.984" L (25.00) x M5 x 0.049" Thread (1.25)	Cable, Flat Cable, Round	Bulk	
MK11 Plastic		(A) SPST-NO (B) SPST-NC (C) SPDT	10~60	100	1000	1.0	(200, 300, 500, 1000, 1500, 2000, 3000, 5000)	0.984" L (25.00) x M5 x 0.049" Thread (1.25)	Cable, Round	Bulk	
MK11/B Brass		(A) SPST-NO (B) SPST-NC	10~60	100	1000	1.0	(200, 300, 500, 1000, 1500, 2000, 3000, 5000)	1.496" L (38.00) x M6 1.496" L (38.00) x M10 x 0.039" Thread (1.00) 1.496" L (38.00) M10 x 0.039" Thread (1.00)	Cable, Round	Bulk	
MK03	Cylindrical	(A) SPST-NO (B) SPST-NC (C) SPDT	10~60	10	400	0.5	(200, 300, 500, 1000, 1500, 2000, 3000, 5000)	1.004" L (25.50) x 0.232" D (5.90)	Cable, Flat Cable, Round	Bulk	
MK07		(A) SPST-NO (B) SPST-NC	10~60	10	200	0.5	(200, 300, 500, 1000, 1500)	1.555" L (39.50) x 0.260" D x (6.60)	Cable, Round	Bulk	
MK14		(A) SPST-NO (B) SPST-NC (C) SPDT	10~60	10	400	0.5	(200, 300, 500, 1000, 1500)	1.004" L (25.50) x 0.157" D (4.00)	Cable, Round	Bulk	
MK08		(A) SPST-NO (B) SPST-NC (C) SPDT	10~60	60	400	1.0	(200, 300, 500, 1000, 1500)	3.937" L (100.00) x 0.709" D (18.00)	Cable, Round	Bulk	
MK18		(A) SPST-NO	10~60	10	200	0.5	(100, 200, 300, 500, 1000, 1500)	0.669" L (17.00) x 0.197" D x (5.00)	Cable, Round	Bulk	
MK20/1		(A) SPST-NO	10~60	10	30	0.25	(100, 200, 300, 500)	0.295" L (7.50) x 0.118" D (3.00)	Cable, Round	Bulk	
MK20/2		(A) SPST-NO	10~30	3	30	0.25	(100, 200, 300, 500)	0.394" L (10.00) x 0.106" D (2.70)	Cable, Round	Bulk	






Product Series	Series Type	Contact Form () Configuration	Operate Range (AT)	Contact Rating (W)	Switching Voltage (V)	Switching Current (A)	Overall Length (mm)	Size Body inches (mm)	Termination	Packaging	Compliance
MK23-35	SMD - Bare Glass	(A) SPST-NO	10~30	20	200	1.0	0.614" (15.60) 0.620" (15.75) 0.776" (19.70)	0.413" L (10.50) 0.087" D (2.20)	Axial Gull Wing Short Gull Wing Long	Tape & Reel	   
MK23-46		(A) SPST-NO	10~40	10	200	0.5	0.673" (17.10) 0.701" (17.80)	0.472" L (12.00) 0.079" D (2.00)	Axial Gull Wing Short Gull Wing Long	Tape & Reel	   
MK23-52		(A) SPST-NO	15~70	50	350	0.5	1.154" (29.30)	0.827" L (21.00) 0.108" D (2.75)	Gull Wing Short	Tape & Reel	   
MK23-66		(A) SPST-NO	10~40	10	180	0.5	0.752" (19.10) 0.772" (19.60) 0.799" (20.30)	0.551" L (14.00) 0.087" D (2.20)	Axial Gull Wing Short Gull Wing Long	Tape & Reel	   
MK23-80		(A) SPST-NO	10~40	10	170	0.5	0.492" (12.50) 0.512" (13.00)	0.276" L (7.00) 0.071" D (1.80)	Axial Gull Wing Short	Tape & Reel	   
MK23-85		(A) SPST-NO	15~55	100	1000	1.0	1.154" (29.30)	0.827" L (21.00) 0.108" D (2.75)	Axial Gull Wing Short	Tape & Reel	   
MK23-87		(A) SPST-NO	10~40	10	200	0.4	0.594" (15.10) 0.614" (15.60) 0.646" (16.40)	0.394" L (10.00) 0.079" D (2.00)	Axial Gull Wing Short Gull Wing Long	Tape & Reel	   
MK23-90		(C) SPDT	15~45	10	175	0.5	0.980" (24.90) 1.000" (25.40)	0.551" L (14.00) 0.100" D (2.54)	Axial Gull Wing Short	Tape & Reel	   
MK33		(A) SPST-NO	10~40	10	100	0.5	0.707" (17.95)	0.551" L (14.00) 0.087" D (2.20)		Tape & Reel	   






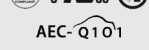

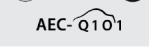
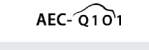
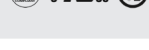
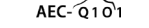
Product Series	Series Type	Contact Form () Configuration	Operate Range (AT)	Contact Rating (W)	Switching Voltage (V)	Switching Current (A)	Overall Length (mm)	Size Body inches (mm)	Termination	Packaging	Compliance
MK30	SMD Molded Body	(A) SPST-NO	5~50	100	1000	1.0	1.126" (28.60)	0.886" L (22.50) 0.138" W (3.50) 0.138" H (3.50)	Gull Wing Short	Tape & Reel	
MK01		(A) SPST-NO (B) SPST-NC (C) SPDT	10~60	10	200	0.5	0.740" (18.80)	0.709" L (18.00) 0.146" W (3.70) 0.134" H (3.40)	J Bend	Tape & Reel	  
MK15		(A) SPST-NO (B) SPST-NC*	10~60	10	200	0.5	0.768" (19.50)	0.098" W (2.50) 0.098" H (2.50) 0.148" H (3.75)*	Axial Gull Wing Short	Tape & Reel	  
MK16		(A) SPST-NO	10~60	10	200	0.5	0.614" (15.60)	0.457" L (11.60) 0.091" W (2.30) 0.091" H (2.30)	Axial Gull Wing Short	Tape & Reel	  
MK17		(A) SPST-NO	10~40	10	170	0.25	0.492" (12.50) 0.484" (12.30) 0.382" (9.70)	0.335" L (8.50) 0.083" W (2.10) 0.083" H (2.10)	Axial Gull Wing Short J Bend	Tape & Reel	  
MK22		(A) SPST-NO	10~30	20	200	1.0	1.358" (34.50) 0.614" (15.60) 0.768" (19.50)	0.457" L (11.60) 0.116" W (2.95) 0.091" H (2.30)	Axial Gull Wing Short Gull Wing Long	Tape & Reel	  
MK24		(A) SPST-NO (B) SPST-NC	5~30	3	30	0.3	0.303" (7.70) 0.276" (7.00) 0.217" (5.50)	0.197" L (5.00) 0.087" W (2.20) 0.063" H (1.60)	Axial Gull Wing Short J Bend	Tape & Reel	  
MK31		(A) SPST-NO	5~30	3	30	0.3	0.272" (6.90) 0.337" (8.55)	0.252" L (6.40) 0.087" W (2.20) 0.071" H (1.80)	J Bend Gull Wing Short	Tape & Reel	  





Product Series	Series Type	Contact Form () Configuration	Switch Model	Contact Rating (W)	Switching Voltage (V)	Switching Current (A)	Cable Length (mm)	Overall Dimensions (mm) Thread Pitch x L	Shaft (Float) Material	Mount	Compliance
KSS	Single Level	(A) SPST-NO (B) SPST-NC		100	400	1.0	n/a	2.760" L (70.10) x Ø1.469" (37.3)	PP (PP)	Horizontal	 
LS01		(A) SPST-NO (B) SPST-NC (C) SPDT	66 85 90	100	400	1.0	500 1000 5000	1.673" L (72.50) x M8 x0.049" Thread (1.25)	PA, PP (PA, PP, NBR)	Vertical	 
LS02		(A) SPST-NO (B) SPST-NC (C) SPDT	66 85 90	100	400	1.0	500 1000 5000	2.854" L (72.50) x M10 x0.039" Thread (1.00)	PA, PP (PA, PP, NBR)	Vertical	 
LS02(S)		(A) SPST-NO (B) SPST-NC (C) SPDT	66 85 90	100	400	1.0	500 1000 5000	2.953" L (75.00) x M10 x0.039" Thread (1.00)	SS (SS)	Vertical	 
LS03		(A) SPST-NO (B) SPST-NC (C) SPDT	66 85 90	100	400	1.0	500 1000 5000	3.268" L (83.00) x M16 x0.079" Thread (2.00)	PA, PP (PA, PP)	Horizontal	 
LS04		Single / Multi / Continuous Level	(A) SPST-NO (B) SPST-NC (C) SPDT	66 85 90	100	400	1.0	500 1000 5000	3.150"-9.843" L (80.00-250.00) x M10 x0.059" Thread (1.50)	PP (PP, NBR)	Vertical
LS05	(A) SPST-NO (B) SPST-NC (C) SPDT		66 85 90	100	400	1.0	500 1000 5000	3.150"-78.74" L (80.00-2000) x M10-30 x0.049" Thread (1.25)	SS (PA, PP, NBR or SS)	Vertical	   

Product Series	Series Type	Package / Mounting	Contact Form	Power Rating Max (W)	Switching Voltage Max (VDC)	Switching Current Max (A)	Carry Current Max (VDC)	Breakdown Voltage Min (VDC)	Insulation Resistance Min (Ω)	Coil Resistance Min-Max (Ω)	Coil Voltages (V)	Options and Features	Highlights & Certifications
BE	General Purpose	Potted / THT	1-5A 2 (B,C)	100	1,000	1.0	2.5	2,500	10^{13}	140-8,000	5, 12, 24	Plastic / metal case Many pin-outs Up to 5 A switches	
DIL		Potted / THT	1-4A 1 (B,C) 2 (A,C)	10	500	0.5	1.0	1,000	10^{11}	500-10,000	5, 12, 24	Mercury Optional Int. Mag Shield Line sense 11k Ω coil Dielectric 4.25kVDC	 
DIP		Molded / THT	1 (A, B, C) 2A	10	500	0.5	1.0	1,000	10^{10}	500-2,000	3, 5, 12, 15, 24	Flyback diode Mercury optional IC compatible in-line Dielectric 4kVDC	 
BE/MRE	High Voltage & High Isolation	Potted / THT	1A 2A	100	1,000	1.0	2.5	6,000	10^{14}	70-1,400	5, 12, 24	Plastic / metal case High creepage / clearance	
H		Molded / Open Frame	1 (A, B)	50	10,000	3.0	5.0	15,000	10^{14}	180-700	12, 24		  
HE		Potted / THT, Cable	1 (A, B) 2A	50	10,000	3.0	5.0	15,000	10^{13}	50-1,500	5, 12, 24	Creepage distance > 26mm	 
HI		Open Frame / THT	1A	100	1,000	1.0	2.5	3,000	10^{14}	140-3,000	5, 12	High Insulation Resistance	 
HM		Potted / THT	1 (A, B)	50	10,000	3.0	5.0	15,000	10^{13}	10-1,650	5, 12, 24	Creepage distance > 32mm	 
KT		Molded / SMD, THT	1A	100	1,000	1.0	2.5	4,000	10^{11}	65-1,800	3, 5, 12, 24	Isolation 7kVDC High creepage / clearance Tape & Reel	     AEC-Q200
LI		Potted / THT	1A	100	1,000	1.0	2.5	4,200	10^{12}	150-2,000	5, 12, 24	Isolation 7kVDC High creepage / clearance	  
SHV		Molded / THT	1A	100	1,000	1.0	2.5	4,000	10^{10}	140-2,000	5, 12, 24	Flyback diode Int. mag shield	 

Product Series	Series Type	Package / Mounting	Contact Form	Power Rating Max (W)	Switching Voltage Max (VDC)	Switching Current Max (A)	Carry Current Max (VDC)	Breakdown Voltage Min (VDC)	Insulation Resistance Min (Ω)	Coil Resistance Min-Max (Ω)	Coil Voltages (V)	Options and Features	Highlights & Certifications
CRF	High Frequency	Ceramic/SMD	1A	10	170	0.5	1.0	210	10^{10}	70-150	3, 5	7GHz <40ps rise 10 μ V thermal offset Int. mag shield Coax screen Z = 50 Ω	
HF		Potted/THT	1 (A, B), 2A	25	500	1.5	5.0A@30MHz	9,000	10^{11}	40-1,000	5, 12, 24	Electrostatic and mag shield	
SIL RF		Molded/THT	1A	10	200	0.4	0.5	230	10^9	500-1,000	5, 12	High RF 1GHz Coax screen Z = 50 Ω	
CRR	High Density Boards	Molded/SMD	1A	10	170	0.5	1.0	210	10^{11}	70-150	3, 5	Ball Grid Array (BGA) Int. mag shield Tape & Reel	
MS		Molded/THT	1A	10	200	0.5	1.0	225	10^{10}	280-700	5, 12	Flyback diode Micro in-line	
SIL		Molded/THT	1 (A, B, C)	10	500	0.5	1.0	1,000	10^{10}	200-2,000	3, 5, 12, 15, 24	Flyback diode Mag shield	
SHV		Molded/THT	1A	100	1,000	1.0	2.5	4,000	10^{10}	140-2,000	5, 12, 24	Flyback diode Int. mag shield	
UMS		Molded/THT	1A	10	170	0.5	1.0	210	10^{10}	400-500	5	Ultra micro in-line Int. mag shield Flyback diode	
RM05-8A-SP		Molded/THT	8A + shift register	10	170	0.5	0.5	210	10^{10}	8x500	5 (3.3 driver)	Driver MAX4823 Kickback Protection Serial Interface Compact Size	
RM05-8A-SP		Relay Modules	Molded/THT	8A + shift register	10	170	0.5	0.5	210	10^{10}	8x500	5 (3.3 driver)	Driver MAX4823 Kickback Protection Serial Interface Compact Size

Product Series	Series Type	Description	Package / Mounting	Contact Form	Power Rating Max. (W)	Switching Voltage Max (VDC)	Switching Current Max (A)	Carry Current Max (VDC)	Breakdown Voltage Min (VDC)	Insulation Resistance Min (Ω)	Coil Resistance Min-Max. (Ω)	Coil Voltage (V)	Options and Features	Highlights and Certifications	
BE	Special	Latching – A short coil pulse closes contacts which remain unchanged until opposite pulse is present	Potted / THT	1E	10	500	0.5	1.5	2,000	10 ¹¹	850-5,000	5-12	Latching, 2 Input Coils, Metal Housing Magnetic Shield		
BT/BTS		Low Thermovoltage – Special internal design for very low Thermal Voltage Offset between Input and Output	Potted / THT	2A	100	1,000	1.0	2.0	1,500	10 ¹¹	350-5,000	5, 12, 24	Thermal Offset <1μV, Magnetic Shield Special Pinouts		
NP-CL / DIL-CL		Current Loop – Sensitive relays activated by a current level in range of milliamperes	Potted / THT	1A	5	100	0.5	1	100	10 ⁹	4-9	Pull-In in mA range	Magnetic Shield 2 Coils Optional		
SPL		Customized Design - Customized and special relay designs on demand		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
SHC		High Current - Compact with High Current switching and carrying capabilities	Molded / THT	1A	50 (120)	150	2.0	5.0 (7.0 as a pulse)	250	10 ⁹	140-2,000	5, 12, 24	Dielectric Strength 4kVDC, Int. Mag Shield Alternative for Mercury switches		
MRX		Intrinsically Safe - Relays certified for Explosive Environments and Hazardous Locations	Molded / THT	1 (A,B)	10	200	0.5	1.0	1,500	10 ¹⁰	280-700	5, 12	Special pin-outs, Ex-Approved for Intrinsically Safe Circuits		
DIP/SIL		Low Coil Consumption - "HR" suffix = higher coil resistance than standard, hence need a lower current	Potted / THT	1A	10	200	0.5	1	200	10 ⁹	1,000-2,000	5, 12	Magnetic Shield, Flyback Diode		

Product Series	Series Type	Package Style (Pin Count)	Circuit (Contact Form)	Load Voltage DC or Peak AC (V)	Load Current Max. (mA)	LED Operate Current Max. (mA)	On-State Resistance Max. (Ω)	Output Capacitance (pF)	Off-State Leakage (μA)	I/O Isolation Voltage Max. (V)	Compliance
SMP-21	Low Capacitance	SOP (4, 8)	SPST-NO (1 FORM A) DPST-NO (2 FORM A)	0~40	250	3.0	1.25	13	10 nA	1500	
SMP-23		SOP (4, 8)	SPST-NO (1 FORM A) DPST-NO (2 FORM A)	0~250	170	3.0	15	37	10 nA	1500	
SMP-30	General Purpose	SOP (4, 8) DIP, SMD (4, 6, 8)	SPST-NO (1 FORM A) DPST-NO (2 FORM A)	0~400	120	3.0	24	52	1	1500 3750	
SMP-31		SOP (4, 8) DIP, SMD (4, 6, 8)	SPST-NO (1 FORM A) DPST-NO (2 FORM A)	0~350	130	3.0	24	55	1	1500 3750	
SMP-37		SOP (4, 8) DIP, SMD (4, 6, 8)	SPST-NO (1 FORM A) DPST-NO (2 FORM A)	0~60	550	3.0	1.6	45	1	1500 3750	
SMP-45		SOP (4, 8) DIP, SMD (4, 6, 8)	SPST-NO (1 FORM A) DPST-NO (2 FORM A)	0~60	200	3.0	14	1.3	1	1500 3750	 AEC-Q101
SMP-74		SOP (4, 8) DIP, SMD (4, 6, 8)	SPST-NC (1 FORM B) DPST-NC (2 FORM B)	0~400	90	3.0	30	1.3	1	1500	
SMP-38	High Voltage >600V	SOP (4, 8) DIP, SMD (4, 6, 8)	SPST-NO (1 FORM A) DPST-NO (2 FORM A)	0~600	80	3.0	60	47	1	1500 3750	 AEC-Q101
SMP-40		DIP, SMD (6)	SPST-NO (1 FORM A)	0~1500	45	5.0	300	83	10	3750	 AEC-Q101
SMP-36	High Current >1A	DIP, SMD (6)	SPST-NO (1 FORM A)	0~60	2.5 A	3.0	0.1	470	1	3750	
SMP-47		SOP (4, 8) DIP, SMD (4, 6, 8)	SPST-NO (1 FORM A) DPST-NO (2 FORM A)	0~80	1.5 A	3.0	0.16	220	1	1500 3750	 AEC-Q101

Product Series	Series Type	Description	Output	Package / Mounting	Isolation Voltage Input/ Output Min (VDC)	Creeping Distance, Air Path I/O Min. (mm)	Current Transfer Ratio Ic/If (if = 10mA) Min (A)	Transmission Frequencies up to (KHz)	Insulation Resistance input/output up to (Ω)	Ambient Temperature (C°)	Options and Features	Highlights and Certifications
521	Special	Stable Optocoupler with a higher creepage distance of 25.4mm and Isolation 6,000 VDC	Transistor	Potted/ THT	6,000	24.5	0.5	50	10^{13}	-40 to 85	High Creepage Distance	
528		Two Optocouplers integrated Into one housing with high isolation of 10,000 VDC	Two Transistors	Potted/ THT	10,000	42	0.9	50	10^{13}	-40 to 85	Two optocouplers in one housing	
530		Slim housing with extra high isolation from 10,000-22,000 VDC	Transistor	Potted/ THT	10,000-20,000	34	0.5	50	10^{13}	-40 to 85	Extra high voltage isolation	
522	Intrinsically Safe	Small housing with creepage distance of 12mm and isolation 4,000 VDC	Transistor	Potted/ THT	4,000	12	0.5	85	10^{12}	-40 to 85	Small size	
525		Compact Housing with Creepage Distance of 14.5mm and Isolation 4,000 VDC	Two Transistor	Potted/ THT	4,000	14.5	0.5	50	10^{12}	-40 to 85	Small size	
535		Optocoupler with Darlington output and current transfer ratio of 300%	Darlington	Potted/ THT	4,000	14.5	3.0	2	10^{13}	-40 to 85	High current transfer ratio	
567		Optocoupler with Schmitt trigger as output ensures transmission frequency up to 500kHz	Schmitt Trigger	Potted/ THT	4,000	14.5	-	500	10^{13}	-20 to 85	Fast switching time	



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