

# KS01 Series Key Switch Reed Sensor



\*Key and Housing are separate pieces

## Key Features:

- Noncontact activation between key and sensing element
- Plastic casing ensures no corrosion damage and operation in dusty environments

## Key Markets/Applications:

- Industrial Cleaning Equipment, Recreational Electric Vehicles, Security Panel, Machine Controls
- Electric Equipment, Industrial Equipment, Security, & Others



## Electrical Specifications:

Contact Data	Switch Model			Unit
	1A88	1A66	2A66	
<b>Rated Power (max.)</b> Any DC combo of V&A not to exceed individual max.'s	100	10	10	W
<b>Switching Voltage (max.)</b> DC or peak AC	1000	200	200	V
<b>Switching Current (max.)</b> DC or peak AC	1.5	0.5	0.5	A
<b>Carry Current (max.)</b> DC or peak AC	6	1.0	1.0	A
<b>Contact Resistance (max.)</b> @ 0.5V & 50mA	100	150	150	mOhm
<b>Breakdown Voltage (min.)</b> According to EN60255-5	3	0.2	0.2	kVDC
<b>Operating Time (max.)</b> Incl. Bounce; Measured with w/ Nominal Voltage	0.6	0.5	0.5	ms
<b>Release Time (max.)</b> Measured with no Coil Excitation	0.1	0.1	0.1	ms
<b>Insulation Resistance (typ.)</b> Rh<45%, 100V Test Voltage	10 <sup>10</sup>	10 <sup>10</sup>	10 <sup>10</sup>	Ohm
<b>Capacitance (typ.)</b> @ 10kHz across open Switch	0.5	0.2	0.2	pF
<b>Resonant Frequency (typ.)</b> @ 10kHz across open Switch	4.1	5	5	kHz
<b>Cable Rated Voltage (max.)</b> FLRY-B Cable Rating	50 (25)	50 (25)	50 (25)	VDC (VAC)

\*Load increase reduces life expectancy of Reed Switches

## Customer Options:



### Part Number Example:

K S 0 1 - 1 A 6 6 - 1 0 0 W

SERIES | 1 | 2 | 3

### CUSTOMER OPTIONS

- CONTACT QUANTITY AND SWITCH MODEL [1A88, 1A66, 2A66]
- CABLE LENGTH
- TERMINATION W=STRIPPED/TINNED

### Additional Options

- Sensor comes with Nylon Ultramid A3K Key
- Key handle and keying feature is customizable for customer owned designs
- Tooling charges may apply for adjustments to keying features, customizations, and keys supplied by Standex.

## Contact Form Glossary :

Form A	Form B	Form C
NO = Normally Open Contacts SPST = Single Pole Single Throw	NC = Normally Closed Contacts SPST = Single Pole Single Throw	Changeover SPDT = Single Pole Double Throw

# KS01 Series Key Switch

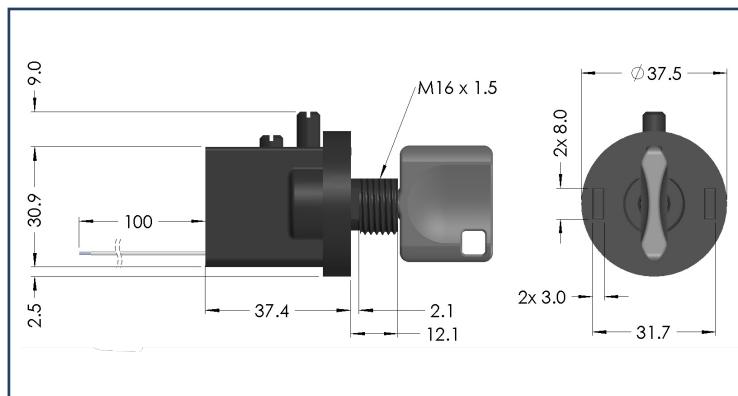
## Reed Sensor

### Mechanical/Environmental Specifications:

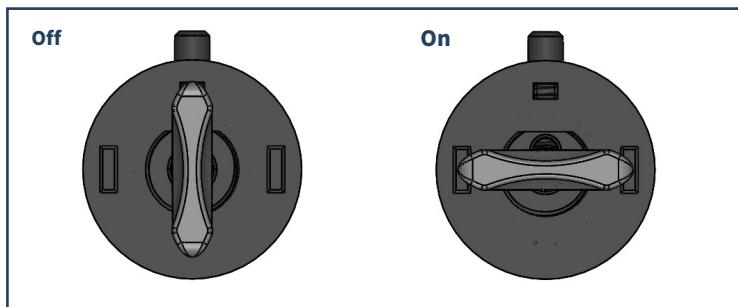
Housing and Lead Data	
<b>Housing and Key Material</b>	Ultramid A3K
<b>Case Color</b>	Black
<b>Sealing Compound</b>	Polyurethane
<b>Cable Type</b>	FLRY-B
<b>Cable Material</b>	PVC
<b>Cross Section (mm<sup>2</sup>)</b>	0.5
Environmental Data	
<b>Shock Resistance</b> ½ sine wave duration 11ms	50 g
<b>Vibration Resistance (max.)</b>	20 g
<b>Operating Temperature</b>	-40 to 80 °C
<b>Storage Temperature</b>	-55 to 80 °C

### Dimensions (mm):

Tolerances acc. to DIN ISO 2768-m

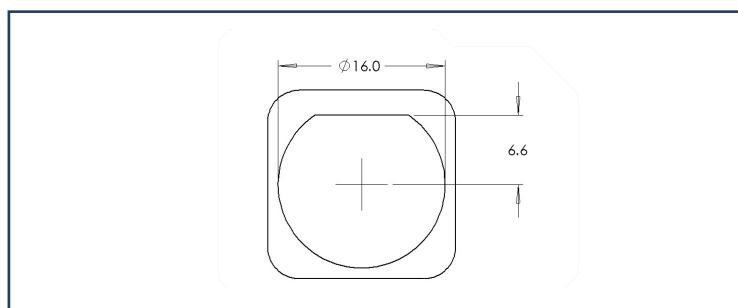


### Key Position/Activation:



### Mounting Geometry:

D Shape Cutout



### Layout:

<b>Contact Form 1A</b>	Black	Black
<b>Contact Form 2A</b>	Black	Black
	White	White

### Lifecycles:

Form Factor	1A88		1A66	
	Load Condition	48V @ 1.5A	Number of Operations	10 <sup>5</sup>

### Handling/ Assembly Instructions:

- Through hole panel mount with D Flat
- Customer is responsible for M16 x 1.5 mounting nut
- Series resistor recommended for > 5m cable length