

MK37 Recessed Reed Sensor



Key Features:

- ✓ Noncontact activation between sensor and actuator
- ✓ Designed to press into a $\varnothing 9.5\text{mm}$ [0.375"] hole
- ✓ Adapter Options Available for Installation in Steel

Key Markets/Applications:

- ✓ Industrial Equipment, Building Security and Monitor, Appliance
- ✓ Door and Access control, Window Monitoring, Equipment Door Detection, Appliance Door Detection



Electrical Specifications:

Contact Data	Switch Model		Unit
	1A	1B	
Rated Power (max.) Any DC combo of V&A not to exceed individual max.'s	10	3	W
Switching Voltage (max.) DC or peak AC	180	30	V
Switching Current (max.) DC or peak AC	0.5	0.2	A
Carry Current (max.) DC or peak AC	1.0	0.5	A
Contact Resistance (max.) @ 0.5V & 50mA	200	200	mOhm
Breakdown Voltage (min.) According to EN60255-5	0.25	0.15	kVDC
Operating Time (max.) Incl. Bounce; Measured with w/ Nominal Voltage	0.7	1.0	ms
Release Time (max.) Measured with no Coil Excitation	0.05	0.5	ms
Insulation Resistance (typ.) Rh<45%, 100V Test Voltage	10^{10}	10^9	Ohm
Capacitance (typ.) @ 10kHz across open Switch	0.3	1.5	pF
Typical Lifetime Resistive Load 12V at 5mA	10^8	10^7	Operating Cycles

***Load increase reduces life expectancy of Reed Switches**

Customer Options:



Part Number Example:

M K 3 7 / 0 - 1 A - 3 0 0 W - W H T

SERIES	1	2	3	4
--------	---	---	---	---

CUSTOMER OPTIONS

- ADAPTER OPTIONS [0, 1, 2]
 - 0 = No Adapter
 - 1 = Adapter 1
 - 2 = Adapter 2
- CONTACT QUANTITY AND SWITCH MODEL [1A,1B]
 - 1A = Normally Open
 - 1B = Normally Closed
- CABLE LENGTH and Type
 - 300W = 300mm UL1569
 - 2mB = 2 meter VdS Class B
- HOUSING COLOR [BLK, WHT]

Additional Options

- + UL Cable Version comes as sensor and magnet pair
- + VdS Cable Version sensor and magnet sold separately
- + Adapter options are optional for steel installation

Contact Form Glossary :

Form A

NO = Normally Open Contacts
SPST = Single Pole Single Throw



Form B

NC = Normally Closed Contacts
SPST = Single Pole Single Throw



Form C

Changeover
SPDT = Single Pole Double Throw



MK37 Recessed Reed Sensor

DATA SHEET

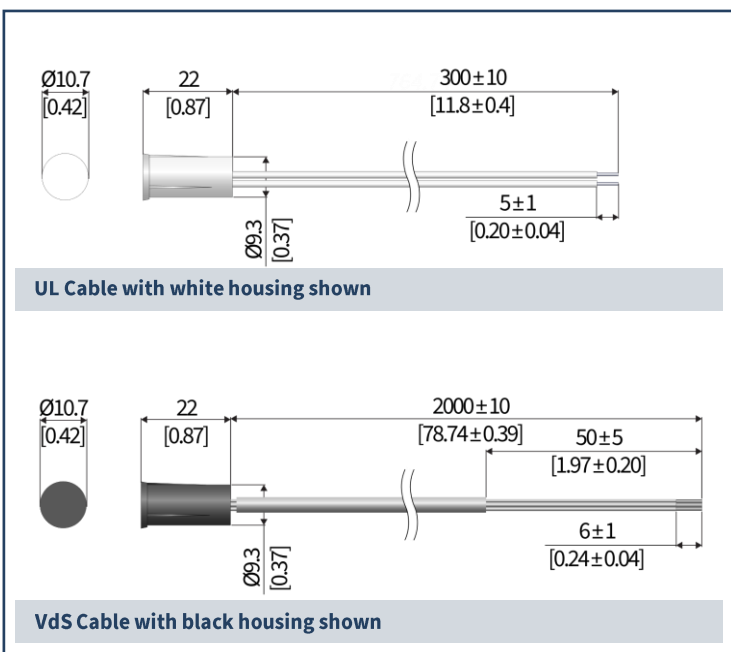
Mechanical/Environmental Specifications:

Housing and Lead Data		
Housing	PBT	
Case Color	White or Black	
Sealing Compound	Polyurethane	
Cable Type	UL1569	
UL Cable Material	PVC	
Wire Awg	22 awg	
Cable Type	Round cable	
VdS Cable Material	PVC	
Conductor Cross Section	4 x 0.14 mm ²	
Environmental Data		Unit
Shock Resistance ½ sine wave duration 11ms	50	g
Vibration Resistance (max.)	20	g
Operating Temperature Cable not moved	-40 to 75	°C
VdS Operating Temperature Cable not moved	-30 to 75	°C

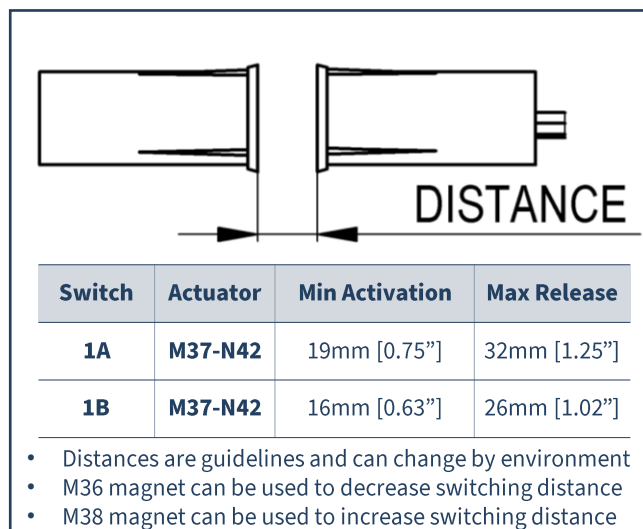
Higher temperature rated magnets available upon request

Dimensions (mm):

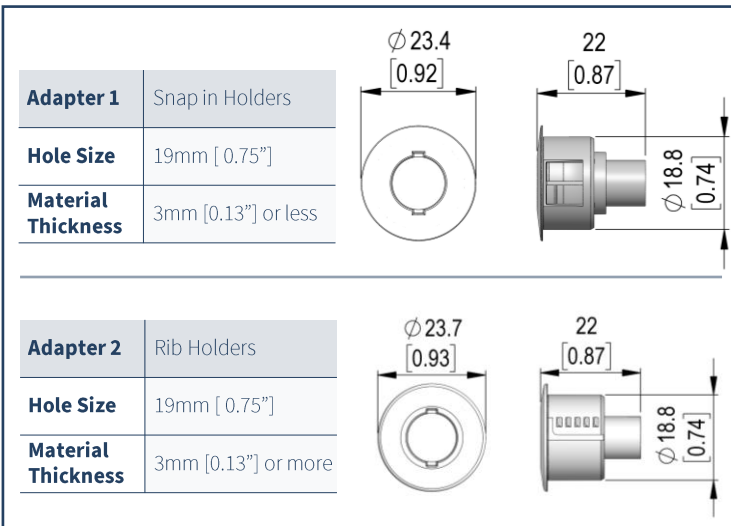
Tolerances acc. to DIN ISO 2768-m



Activation Distances



Adapter Options – Available in White and Black



Handling/ Assembly Instructions:

- Crushed ribs good for single installation
- Holes under 9.53mm [0.375"] will prevent installation
- Cable bending-radius is diameter x 15
- Min. bending distance to housing is 5mm
- Series resistor recommended for > 5m cable length
- Cable length will affect sensor contact resistance

Layout:

