

Products for tomorrow...



Description

Magnetically operated Reed Sensors in flat form with mounting holes for screw fastening

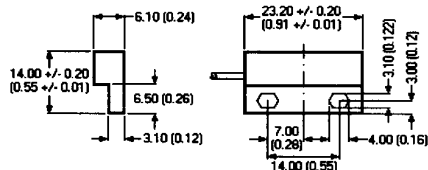
Applications

Position and limit switch
Door and window contact
Level sensor

Features

Choice of switches, termination options, & cable lengths
5 ranges of switch sensitivity

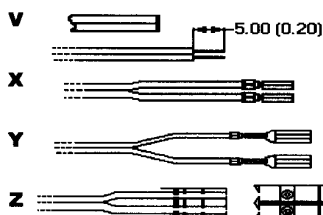
Dimensions



Tolerance ± 0.10 mm (0.004 in)

Termination

The standard termination is a 2-wire flat cable with a cross section of $2 \times 0.14 \text{ mm}^2$.
The standard cable length is 500 mm, other lengths can be supplied on request. The required length must be stated in the part number.
The cable end can be supplied with the following connection styles:



Ordering Information

MK4	XXXX	X -	XXX	X
Series	Contact Type	Magnetic Sensitivity	Cable Length (mm)	Termination (V/W/X/Y/Z)
	1A71	(AT)		
	1A84	(AT)		
	1C90	B 10 - 15 (71 only)	500 standard	
		C 15 - 20		
		D 20 - 25		
		E 25 - 30		

All data at 20 °C

All data at 20 °C			Contact type Contact form			Contact 71			Contact 84			Contact 90			Units
						Standard			High Dielectric			Standard Form C			
						Form 1A			Form 1A			Form 1C			
Parameter	Conditions	Sym.	Min	Typ	Max	Min	Typ	Max	Min	Typ	Max				
Contact Operation															
Must operate condition	Steady state field (ranges available)		10		30	15		30	15		30	AT			
Must release condition	Steady state field (ranges available)		3		30	3		30	3		30	AT			
Contact Ratings															
Rated Power	DC/peak AC Resistive	W			10			10			3	Watts			
Switching Voltage	DC/peak AC Resistive	V			180*			250			175	Volts			
Switching Current	DC/peak AC Resistive	A			0.5			0.5			0.25	Amps			
Carry Current	DC/peak AC Resistive	A			1.5**			1.5			1.2	Amps			
Static Contact Res.	50mV @ 10mA @ nom. volt.	CR			150			150			150	mΩ			
Dynamic Contact Res.	0.5 V @ 50mA, 100 Hz and after 1.5 ms @ nom. volt.	DCR			200			200			na	mΩ			
Dielectric Strength	Across contact		250			700			200			DCV			
Capacitance	Across switch			0.2			0.2			0.3		pf			
Operating time	Including bounce	Top			500			700		700	1000	μs			
Release time	No coil suppression	Trel			50			50			2000	μs			
Insulation Resistance	Across switch	IR	10 ¹⁰	10 ¹²		10 ¹⁰	10 ¹¹		10 ⁹	10 ¹¹		Ω			
Contact material				Ru			Rh			Rh					
Environmental Ratings															
Operating temperature		To	-20		85	-20		85	-20		85	°C			
Storage temperature		Ta	-35		85	-35		85	-35		85	°C			
Shock	At 11 ms +/- 1ms; 1/2 sine wave	S			150			50			50	Gs			
Vibration	10 Hz to 2000 Hz	G			10			35			30	Gs			

* Range D and E: 200 V

** Range D and E: 1.75 A