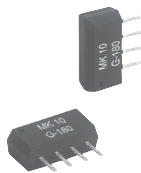


Reed Sensor with Integrated Resistor

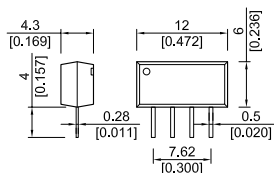


APPLICATIONS

- Ideal for level sensing
- Banks of keys with resistance matrix
- The integrated resistor can be used for contact protection

DIMENSIONS

All dimensions in mm [inches]



ORDER INFORMATION

SERIES	MAGNETIC SENSITIVITY	RESISTANCE IN OHM
MK10	X -	XXX
OPTIONS	B, C	*

* All standard values of 1/8 Watt resistors of the series E96 with 1% tolerance can be built in.

DESCRIPTION

MK10 sensors are magnetically operated Reed proximity switches in which a small size resistor is integrated into the package. The single-in-line construction is designed for PCB mounting. The magnetic pull-in / drop-out sensitivity is divided into two AT ranges.

RESISTOR VALUES

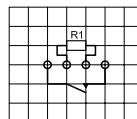
- All standard values of 1/8 Watt resistors of the series E96 with 1% tolerance are available as well.

FEATURES

- High power switches available
- Small dimensions

PIN OUT

View from top of component
2.54mm [0.10"] pitch grid



MAGNETIC SENSITIVITY

SENSITIVITY CLASS	PULL IN AT RANGE
B	10 - 15
C	15 - 20

Part Number Example

MK10 B - 390

B is the magnetic sensitivity,
390 is the resistance in Ohm *

Reed Sensor with Integrated Resistor

CONTACT DATA

All data at 20° C	Contact Form ->	Form A			
Contact Ratings	Conditions	Min.	Typ.	Max.	Units
Switching Power	Any DC combination of V & A not to exceed their individual max.'s			10	W
Switching Voltage	DC or peak AC			200	V
Switching Current	DC or peak AC			0.5	A
Carry Current	DC or peak AC			0.5	A
Static Contact Resistance	w/ 0.5V & 10mA			150	mΩ
Dynamic Contact Resistance	Measured w/ 0.5V & 50mA 1.5 ms after closure			200	mΩ
Insulation Resistance across Contacts	100 Volts applied	10 ⁹			Ω
Breakdown Voltage across Contacts	Voltage applied for 60 sec. min.	230			VDC
Operate Time, incl. Bounce	Measured w/ 100% overdrive			0.6	ms
Release Time	Measured w/ no coil suppression			0.1	ms
Capacitance	@ 10kHz across contact		0.2		pF
Contact Operation *					
Must Operate Condition	Steady state field	10		20	AT
Must Release Condition	Steady state field	4		18	AT
Environmental Data					
Shock Resistance	1/2 sine wave duration 11ms			50	g
Vibration Resistance	From 10 - 2000 Hz			20	g
Ambient Temperature	10 °C/ minute max. allowable	-20		130	°C
Storage Temperature	10 °C/ minute max. allowable	-35		130	°C
Soldering Temperature	5 sec. dwell			260	°C
Please note: The indicated electrical data are maximum values and can vary downwards when using a more sensitive switch. * These ranges refer to the uncut / unmodified Reed Switches described in our Reed Switch section. Consult factory if more detail is required.					