## DESCRIPTION

The MK1 sensor offers a selection of magnetically operated Reed proximity switches with J-lead connections for SMD mounting. The sensors are provided in the standard 32 mm tape according to IEC 286 / part 3. Several AT ranges for the Pull-in / Drop-out sensitivities are available. Low profile packaging with a height of only 3.25 mm .

## FEATURES

- Surface Mount Design
- Form C available
- High power switches available
- Four operate sensitivities available


## SCHEMATIC DRAWING



ORDER INFORMATION

| SENSITIVITY <br> CLASS | PULL IN <br> AT RANGE |
| :---: | :---: |
| B | $10-15$ |
| C | $15-20$ |
| D | $20-25$ |
| E | $25-30$ |


| SERIES | MAGNETIC <br> SENSITIVITY |
| :---: | :---: |
| MK1 - | X |
| OPTIONS | B, C, D, E |

Part Number Example
MK1 - B
B is the magnetic sensitivity class

TAPE \& REEL
All dimensions in mm [inches]


## SOLDERING INFORMATION

All dimensions in mm [inches]


## CONTACT DATA

| All data at $20{ }^{\circ} \mathrm{C}$ | Contact Form --> | Form A |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Contact Ratings | Conditions | Min. | Typ. | Max. | Units |
| Contact Rating | 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 |  |  | 1.25 | A |
| Static Contact Resistance | $\mathrm{w} / 0.5 \mathrm{~V}$ \& 10 mA |  |  | 150 | $\mathrm{m} \Omega$ |
| Dynamic Contact Resistance | Measured w/ 0.5 V \& 50 mA 1.5 ms after closure |  |  | 200 | $\mathrm{m} \Omega$ |
| Insulation Resistance across Contacts | 100 Volts applied | $10^{10}$ * |  |  | $\Omega$ |
| Breakdown Voltage across Contacts | Voltage applied for 60 sec . min. | 225 * |  |  | VDC |
| Operate Time, incl. Bounce | Measured w/ 100\% overdrive |  |  | 0.5 | 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 |  | 30 | AT |
| Must Release Condition | Steady state field | 04 |  | 27 | AT |
| Environmental Data |  |  |  |  |  |
| Shock Resistance | $1 / 2$ sine wave duration 11 ms |  |  | 50 | g |
| Vibration Resistance | From $10-2000 \mathrm{~Hz}$ |  |  | 20 | g |
| Ambient Temperature | $10^{\circ} \mathrm{C} /$ minute max. allowable | -40 |  | 130 | ${ }^{\circ} \mathrm{C}$ |
| Storage Temperature | $10^{\circ} \mathrm{C} /$ minute max. allowable | -50 |  | 130 | ${ }^{\circ} \mathrm{C}$ |
| Soldering Temperature | $5 \mathrm{sec} . \mathrm{dwell}$ |  |  | 260 | ${ }^{\circ} \mathrm{C}$ |
| Please note: The indicated electrical data are maximum values and can vary downwards when using a more sensitive switch. <br> * Insulation Resistance of $10^{12}$ and a Breakdown voltage of 480 VDC version is available. <br> ** These ranges refer to the uncut/ unmodified Reed Switches described in our Reed Switch section. Consult factory if more detail is required. |  |  |  |  |  |

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