Magnetic Contacts MK-4000 Series

The new EN50131-2-6 approved magnetic contacts series MK-4000 offers a wide variety of products with the following features:

- Connection via screw terminals
- High long-term stability
- Maintenance-free and easy to install
- Nice designed plastic housing
- Variants with built-in resistors

Answers for infrastructure.

SIEMENS

Functionalities

Application

Magnetic contacts of the MK-4000 Series are used in alarm signalling systems and access control systems for monitoring doors, gates and windows against any unauthorized opening. For installations where biased (interfering-field proof) contacts are a requirement, appropriate magnetic contacts of the MK-4000 Series are available.

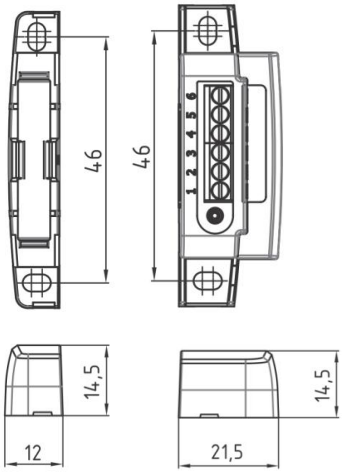
Operation

The magnetic contact is made up of two units, the reed contact and a permanent magnet. The reed contact unit and the magnet are mounted on the fixed and the movable part of the object to be protected, at a defined distance from each other. The field of force of the permanent magnet serves to keep the reed contact closed. Any increase in the distance between the reed contact and the magnet will cause the effect of the magnetic field of force at the reed contact to reduce and as a result, the reed contact will open and break the electric circuit for signal analysis. The MK-4400 Series offers also a type with a change-over contact and a high security version.

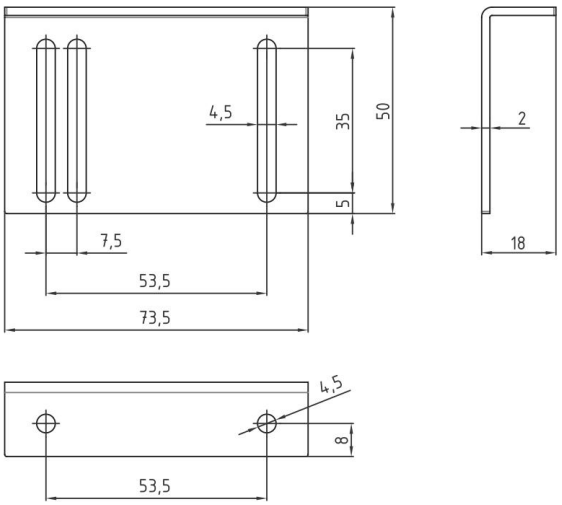
Installation

The installation position must be selected that the air gap does not allow any tampering. The magnetic contacts of the MK-4000 Series are designed for installation on wooden or plastic frames of the objects to be protected. When the contacts are to be mounted on metal frames, spacers (accessories) must be fitted. The reed contact unit is installed on the fixed part and the magnet unit on the movable part of the object to be protected. Wiring of the contact unit is made via the screw terminals which are easily accessible from above. Should a shorter monitoring distance or a different mode of installation required, the individual accessories may be used in any combination, depending on the application

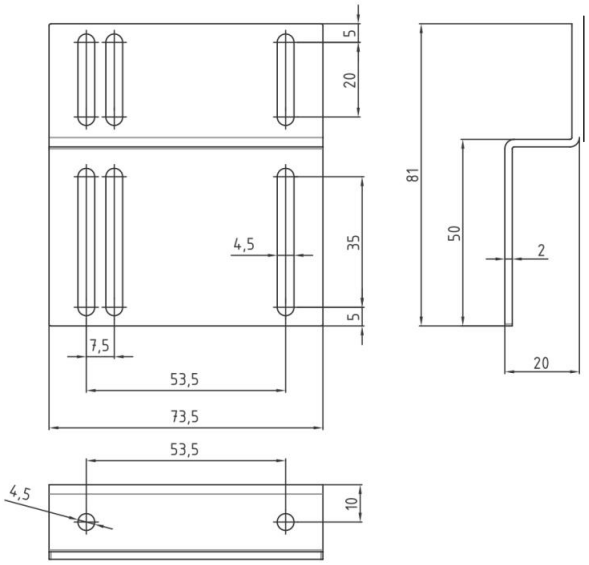
MK-4400; MK-4700



MK-4000-1



MK-4000-5



Technical data

	N/C contact	Change-over contact
Line contact	Single pole N/C contact	Single pole change-over contact
Power input	≤ 40 V DC	≤ 30 V DC
Switching current	≤ 500mA	≤ 200 mA
Contact capacity	≤ 6 W	≤ 3 W
Transition resistance	≤ 0.15 Ohm	
Tamper switch	Single-pole N/C contact	
Rating	0.1 A / 30 V DC	
Transition resistance	≤ 1 Ohm	
Contact dimension	58 x 21.5 x 14.5 mm	
Magnet dimension	58 x 12 x 14.5 mm	
Temperature range	-40°C to +70 °C	
Housing material	PBT-GF, S-B, A-B-S	
Magnet material	AlNiCo 5	
Housing protection	IP43	
Environmental class EN	II	
Approvals (pending)	EN, SBSC	

Ordering Informations

Type	Order No.	Description	Weight
MK-4000-1	S54536-M105-A100	Mounting bracket, L-shape	0.046 kg
MK-4000-2	S54536-N101-A100	Extra strong magnet	0.032 kg
MK-4000-3	S54536-M106-A100	Spacer for contact part, 3 mm	0.1 kg
MK-4000-4	S54536-M107-A100	Spacer for magnet part, 3 mm	0.06 kg
MK-4000-5	S54536-M108-A100	Mounting bracket, Z-shape	0.046 kg
MK-4400	S54536-F113-A100	Magnetic contact	0.032 kg
MK-4400-1K	S54536-F114-A100	Magnetic contact, 1k ohm resistor	0.032 kg
MK-4400-2K2	S54536-F114-A200	Magnetic contact, 2k2 ohm resistor	0.032 kg
MK-4400-2x5K6	S54536-F114-A300	Magnetic contact, 2 x 5k6 ohm resistor	0.032 kg
MK-4400-4K7	S54536-F114-A400	Magnetic contact, 4k7 ohm resistor	0.032 kg
MK-4460	S54536-F115-A100	Magnetic contact, change-over contact	0.033 kg
MK-4470	S54536-F116-A100	Magnetic contact, two reed contacts	0.033 kg
MK-4700	S54536-F117-A100	High security magnetic contact	0.033 kg
MK-4720	S54536-F118-A100	High security magnetic contact, change-over contact	0.033 kg

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