

Magnetic Contacts

MK-3000 Series

VANDERBILT



The new EN50131-2-6 approved magnetic contacts series MK-3000 offers a wide variety of products with the following features:

- Excellent operation even on iron doors
- Discreet and varied installation
- Constant sensitivity over a wide temperature range
- High reliability guaranteed by reed switch
- Variants with built-in resistors

Functionalities

■ Application

The magnetic contacts of the MK-3000 series are used in alarm signalling systems and security access control systems to protect doors, gates and windows against unauthorized opening. The extensive assortment of installation accessories permit the use of these contacts in almost any inside or outside application.

■ Function

The magnetic contact consists of two parts, i.e. the reed contact and a permanent magnet. The reed contact and the magnet are mounted at a defined distance on the fixed and the movable

parts of the object to be protected. The reed contact remains closed by the force field of the permanent magnet. If the distance between the reed contact and the magnet increases, the magnetic field becomes weaker in the reed contact and causes the reed contact to open and interrupt the electric circuit.

■ Installation

The installer must ensure that the air gap between the fixed and the moveable parts does not permit sabotage. For installation a hole has to be drilled. The reed contact is mounted into the fixed part of the object to be protected,

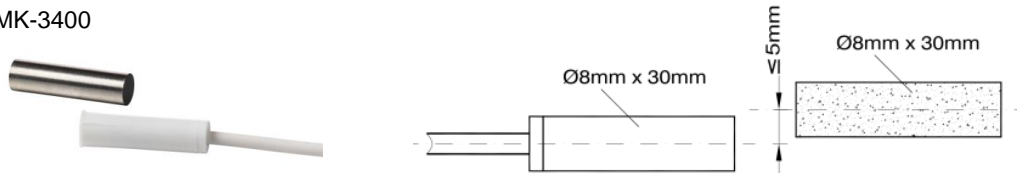
and the magnetic part is fixed into the moveable part of the object. Because of the very flexible connection cable to the contact installation is easy, even if the cables have to be bent. For use in other materials or in locations where direct use of contacts and magnets is not possible, plastic adapter sets are available, where the contact can be fixed to one side and the magnet to the other.

Magnetic Contacts

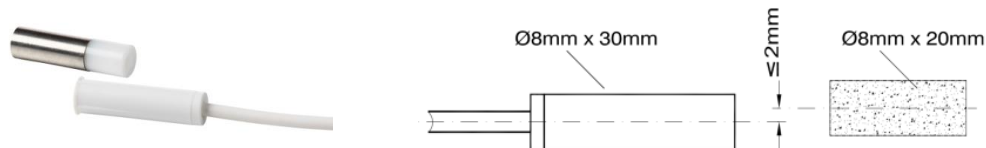
MK-3000 Series

VANDERBILT

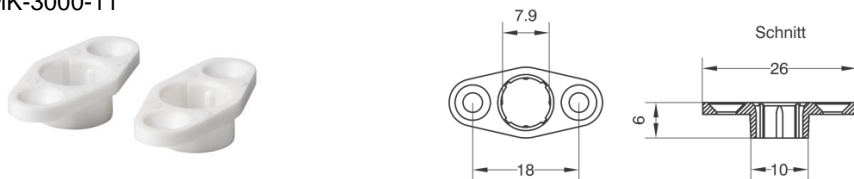
MK-3400



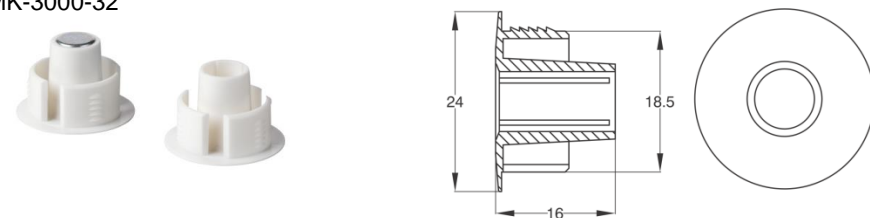
MK-3700



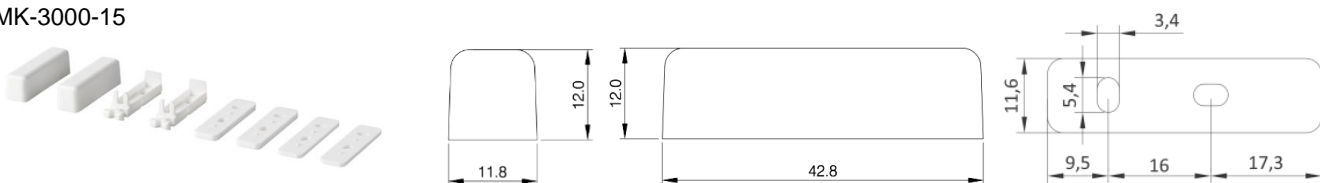
MK-3000-11



MK-3000-32



MK-3000-15



VANDERBILT

Magnetic Contacts

MK-3000 Series

VANDERBILT

■ Technical data

| | |
|------------------------------|--|
| Contact | Normally closed |
| Switching voltage | ≤ 110 V DC |
| Switching current | 10 µA to 100 mA |
| Switching capacity | ≤ 5 W |
| Temperature range | -40°C to +70 °C |
| Housing material | ABS |
| Housing Colour | White (RAL 9003) |
| Magnet material | AlNiCo |
| Connection cable | LIYY 4 x 0.14 mm ² LIYY 2 x 0.14 mm ² (with resistor) |
| Optional resistor | Possible |
| Housing protection | IP67 |
| Environmental class VdS / EN | III / IIIA |
| Approvals (pending) | VdS, EN |

■ Ordering Informations

| Type | Order No. | Description | Weight |
|------------------|------------------|--|---------|
| MK-3000-11 | V54536-M103-A100 | Plastic adapter for non ferromagnetic materials | 0.05 kg |
| MK-3000-32 | V54536-M104-A200 | Plastic adapter for ferromagnetic materials | 0.11 kg |
| MK-3000-15 | V54536-H102-A200 | Housing for surface mounting | 0.12 kg |
| MK-3400-2 | V54536-F110-A100 | Magnetic contact, 2 m cable | 0.05 kg |
| MK-3400-5 | V54536-F110-A200 | Magnetic contact, 5 m cable | 0.1 kg |
| MK-3400-10 | V54536-F110-A300 | Magnetic contact, 10 m cable | 0.18 kg |
| MK-3400-15 | V54536-F110-A400 | Magnetic contact, 15 m cable | 0.25 kg |
| MK-3400-25 | V54536-F110-A500 | Magnetic contact, 25 m cable | 0.41 kg |
| MK-3400-5-2x4K7 | V54536-F111-A100 | Magnetic contact, 5 m cable, 2 x 4k7 ohm resistor | 0.09 kg |
| MK-3400-5-2x16K2 | V54536-F111-A200 | Magnetic contact, 5 m cable, 2 x 16k2 ohm resistor | 0.09 kg |
| MK-3700-6 | V54536-F112-A100 | High security magnetic contact, 6 m cable | 0.11 kg |

VANDERBILT