



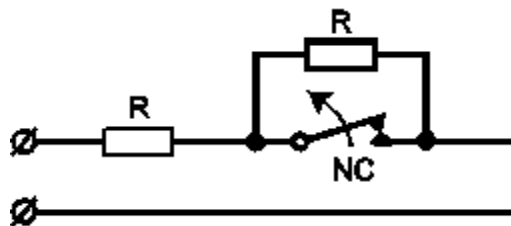
**DESCRIPTION**

MC 340 with built-in resistors is a versatile magnetic contact used in both alarm and security access control systems for protection of doors, gates and windows against unauthorized opening. A wide range of accessories enables the contact to be recessed- or surface-mounted on a variety of surfaces, including ferromagnetic materials.

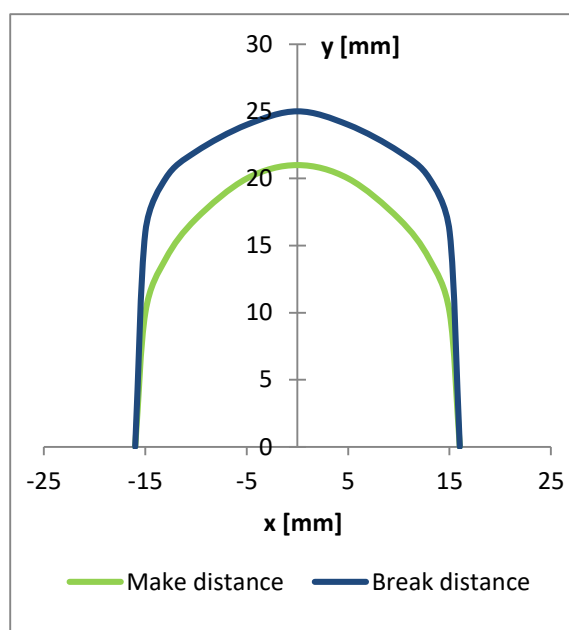
**MOUNTING INSTRUCTIONS**

- Contact and magnet should be installed axially, corresponding to each other.
- Catch-bolts on the housing enable direct installation in  $\phi$  8 mm holes in wood.
- Appropriate accessory must be used for installation in ferromagnetic environment.

**CIRCUIT DIAGRAM**



**DISTANCE DIAGRAM - WOOD**



**TECHNICAL DATA**

|                             |  |                    |
|-----------------------------|--|--------------------|
| Working environment         | Wood   | Steel              |
| Make distance               | typ. 21 mm $\pm$ 40 % <sup>1)</sup>  | see distance table |
| Break distance              | typ. 25 mm $\pm$ 40 % <sup>1)</sup>  | see distance table |
| Contact type                | form A, SPST   |                    |
| Switching voltage max.      | 48 V DC/AC   |                    |
| Switching current max.      | 500 mA DC/peak AC  |                    |
| Contact rating max.         | 10 W   |                    |
| Cable                       | $\phi$ 2,8 mm, 2x0,182 mm <sup>2</sup>   |                    |
| Environmental class         | EN 50130-5:2011 Class IIIA<br>VdS 2110:2017-09 Class III<br>SSF 1014-5 Class III |                    |
| Operating temperature range | -40°C to +70°C   |                    |
| Operating humidity range    | max. 95% r. h.   |                    |
| Housing material            | plastic ABS  |                    |
| IP protection class         | IP 67  |                    |
| Dimensions, Contact part    | $\phi$ 8 x 26 mm   |                    |
| Dimensions, Magnet part     | $\phi$ 8 x 26 mm   |                    |
| Security grade              | EN 50131-2-6:2008 Grade 2, VdS 2120:2011-06 Class B<br>SSF 1014-5 Grade 2        |                    |
| Approvals                   | VdS - G100508  |                    |

<sup>1)</sup> Make distance is always shorter than break distance

## OPERATING PRINCIPLE

MC 340 magnetic contact has two parts: the contact part with a reed switch and the magnet part. In its neutral position the reed switch remains closed under the force of the magnetic field. Opening the monitored object increases the distance between the reed switch and the magnet. This reduces the influence of the magnetic field on the reed switch until it opens and activates an alarm.

**Magnetic contacts should not be installed in the vicinity of strong magnetic fields.**

## INSTALLATION

Contact and magnet should be aligned axially in the frames and leaves of the monitored objects (windows, doors etc.). Offset will reduce the working distances. The contact should be mounted in the stationary part of the monitored object (ex. door frame) and the magnet in the movable part (ex. door leaf). Before mounting, holes must be drilled. Catch-bolts on the housing enable direct installation in  $\phi$  8 mm holes in wood.

For sites where it is impossible to mount the contact directly, a variety of accessories is available.

Accessories with a strong magnet provide a bigger working distance for more demanding applications and maintain the parameters of the magnetic contact when mounted in ferromagnetic environment.

Accessories for surface mounted applications provide installation solutions for sites where recessed mounting is not suitable.

The working distances of the magnetic contact will be decreased in the proximity of ferromagnetic surfaces. The closer the contact/magnet is installed to the ferromagnetic surface, the lower the working distances

Only non-ferromagnetic screws may be used when mounting the contact using accessories.

After the installation, use an ohmmeter to check the electrical connections and test the function of the magnetic contact.

**Warning: applying excessive force to the housing of the contact may damage the glass body of the reed switches inside.**

**Warning: appropriate accessories must be used for installation in ferromagnetic environment.**

## DISTANCE TABLE

| Contact | Accessory  | Distance on wood [mm] |       | Distance on steel [mm] |                  |
|---------|------------|-----------------------|-------|------------------------|------------------|
|         |            | Make                  | Break | Make                   | Break            |
| MC 340  | -          | 21                    | 25    | X                      | X                |
|         | MC 300-S1  | 21                    | 25    | X                      | X                |
|         | MC 300-S3  | 17                    | 20    | 12 <sup>a)</sup>       | 15 <sup>a)</sup> |
|         | MC 300-S11 | 21                    | 25    | X                      | X                |
|         | MC 300-S12 | 35                    | 40    | 22                     | 24               |
|         | MC 300-S21 | 21                    | 25    | X                      | X                |
|         | MC 300-S22 | 35                    | 40    | 27                     | 30               |
|         | MC 300-S31 | 21                    | 25    | X                      | X                |
|         | MC 300-S32 | 35                    | 40    | 22                     | 24               |
|         | MC 300-S35 | 18                    | 20    | X                      | X                |

X – not recommended

<sup>a)</sup> measured with spacers (included in the MC 300-S3 set)

We reserve the right to changes without notice.