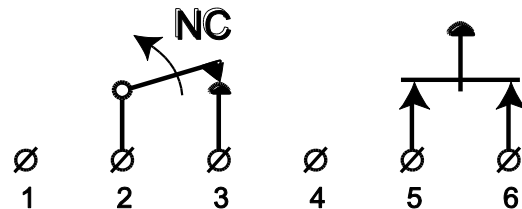


Instruction Manual **MC 440-T**



CIRCUIT DIAGRAM

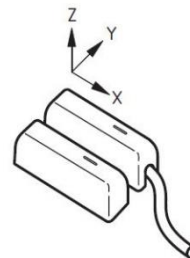


DESCRIPTION

MC 440-T is a versatile surface-mounted magnetic contact used in both alarm and security access control systems for protection of doors and windows against unauthorised opening. It is equipped with an opening protection switch.

MOUNTING INSTRUCTIONS

- Contact and magnet should be installed in parallel, corresponding to each other. Offset will reduce the working distances.
- Spacers must be used for installation on ferromagnetic surfaces.



DISTANCES/DIRECTIONS

TECHNICAL DATA

Working environment	Wood ¹⁾	Steel ¹⁾
Y direction Make distance	typ. 31 mm ± 40 %	typ. 16 mm ± 40 % ^{a)}
Break distance	typ. 39 mm ± 40 %	typ. 21 mm ± 40 % ^{a)}
X Left direction Make distance	typ. 12 mm ± 40 %	typ. 8 mm ± 40 % ^{a)}
Break distance	typ. 14 mm ± 40 %	typ. 10 mm ± 40 % ^{a)}
X Right direction Make distance	typ. 13 mm ± 40 %	typ. 12 mm ± 40 % ^{a)}
Break distance	typ. 15 mm ± 40 %	typ. 14 mm ± 40 % ^{a)}
Z direction Make distance	typ. 40 mm ± 40 %	typ. 21 mm ± 40 % ^{a)}
Break distance	typ. 51 mm ± 40 %	typ. 26 mm ± 40 % ^{a)}
Contact type	form A, SPST	
Switching voltage max.	48 V DC/AC	
Switching current max.	400 mA DC/peak AC	
Contact rating max.	10 W	
Operating temperature range	-10°C to +55°C	
Operating humidity	max. 95% RH	
Housing protection	IP43, IK04	
Housing material	plastic ABS	
Dimensions, Contact part	65 x 15,6 x 19,6 mm	
Dimensions, Magnet part	65 x 15,1 x 16,1 mm	
Security grade: EN50131-2-6:2008; VdS	Grade 2	
Approvals	EN-ST-000098, SBSC 9-211, FG MKT-1016/09, INCERT B-582-1003 NF&A2P 2124030003B0	

¹⁾ Make distance is always shorter than break distance

^{a)} - measured with spacers MC 400-3 and MC 400-4 (included in the set)

OPERATING PRINCIPLE

MC 440-T 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 installed in parallel, corresponding to each other. Offset will reduce the working distances. Arrows on the contact and magnet inner housings must point to each other. The contact should be mounted on the stationary part of the monitored object (ex. door frame) and the magnet on the movable part (ex. door leaf).

For sites where it is impossible to mount the contact directly, spacers and aluminium brackets are available. Spacers enable installation of the contact on ferromagnetic surfaces. Brackets can be used to mount the contact parts away from a ferromagnetic surface or to solve problems with aligning the contact with the magnet. Contact and/or magnet should be screwed to the oval slots in the brackets and adjusted to a suitable position.

Only non-ferromagnetic screws may be used for mounting the contact.

After the installation, use an ohmmeter to check the electrical connections and test the operation 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.

We reserve the right to changes without notice.