



DESCRIPTION

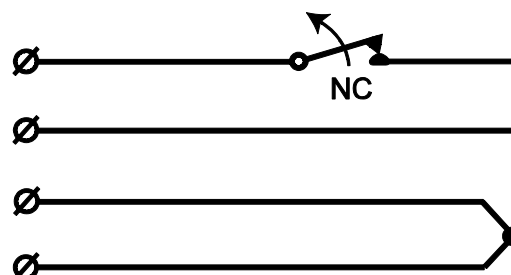
MC 240-S78 is a heavy duty magnetic contact used in both alarm and security access control systems for protection of garage doors, industrial gates etc. against unauthorised opening. The magnetic contact is designed for installation on ferromagnetic surfaces.

MC 240-S78 is certified according to EN 50131-2-6:2008.

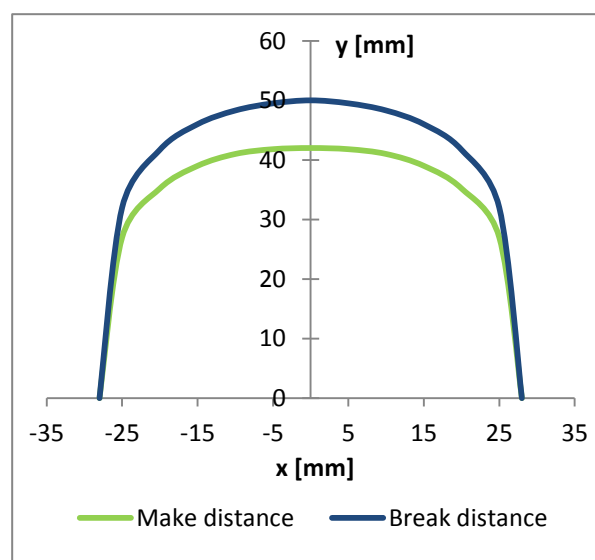
MOUNTING INSTRUCTIONS

- Contact and magnet should be installed in parallel, corresponding to each other. Offset will reduce the working distances.
- No accessories required for installation in ferromagnetic environment.
- Magnetic contact should be installed in accordance with the installation drawings.

CIRCUIT DIAGRAM



DISTANCE DIAGRAM - WOOD



TECHNICAL DATA

Working environment	Wood	Steel
Make distance	typ. 42 mm +/- 40 %	typ. 34 mm +/- 40 %
Break distance	typ. 50 mm +/- 40 %	typ. 40 mm +/- 40 %
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	
Estimated life expectancy	>20 million switching operations at 10 V/4 mA	
Cable	6 m, ϕ 3,2 mm, 4x0,14 mm ²	
Sleeving	1 m, ϕ 8,2 mm, stainless steel	
Environmental class (EN50130-5:2011)	IIIA	
Operating temperature range	-40°C to +55°C	
Operating humidity	max. 95% RH	
Housing material	aluminium	
Dimensions:		
Contact part	73,5 x 30 x 30 mm	
Magnet part	73,5 x 30 x 30 mm	
Security grade (EN50131-2-6:2008)	2	
Approvals	ITR 8/2013	

OPERATING PRINCIPLE

MC 240-S78 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

Depending on the application, contact and magnet should be installed in one of the possible configurations. Installation drawings show the correct positioning of the contact parts. Contact and magnet should be installed in parallel, with plastic plugs corresponding to each other. Offset will reduce the working distances. 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, aluminium brackets and additional magnet parts are available. 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. 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 for mounting the contact.

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

Warning: installation in ferromagnetic environment is not recommended.

RESISTORS (OPTIONAL)

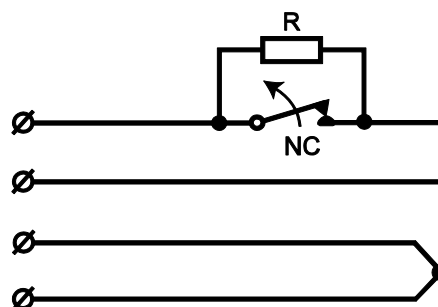
MC 240-S78 is available in two additional options with resistors of the chosen value: MC 240-S78-R with one resistor parallel to the alarm switch and MC 240-S78-2R with two resistors in 2 EOL configuration (see schematics below).

DISTANCE TABLE

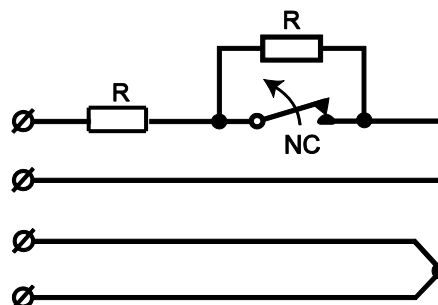
Contact	Accessory	Distance on wood [mm]		Distance on steel [mm]	
		Make	Break	Make	Break
MC 240-S78	-	42	50	34	40
	MC 200-41	42	50	34 ^{a)}	40 ^{a)}

^{a)} measured with magnet part installed 15 mm above the ferromagnetic surface (e. g. using MC L/MC Z accessory)

MC 240-S78-R:

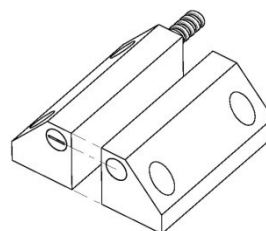


MC 240-S78-2R:



INSTALLATION DRAWINGS

MC 240-S78 configuration:



MC 200-41 accessory:

