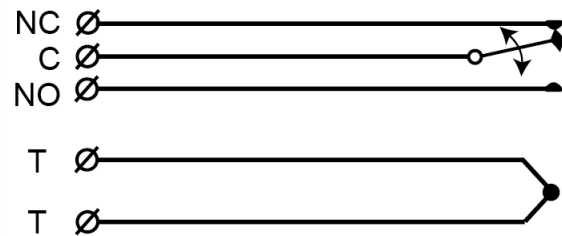




### CIRCUIT DIAGRAM



### DESCRIPTION

MC 346 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.

### OPERATING PRINCIPLE

MC 346 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 causes a change in position of the reed switch and as a result – a path of the signal.

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

### TECHNICAL DATA

Working environment	Wood (Y direction) <sup>1)</sup>	Wood (Z direction) <sup>1)</sup>	Steel <sup>1)</sup>
Make distance	typ. 15 mm $\pm$ 40%	typ. 13 mm $\pm$ 40%	Not recommended
Break distance	typ. 17 mm $\pm$ 40%	typ. 17 mm $\pm$ 40%	Not recommended
Contact type	form C, SPDT		
Switching voltage max.	48 V DC/AC		
Switching current max.	250 mA DC / 180mA AC		
Contact rating max.	5 W		
Cable	$\phi$ 3,6 mm, 5x0,182 mm <sup>2</sup>		
Environmental class (EN50130-5:2011)	IIIA		
Operating temperature range	-40°C to +70°C		
Operating humidity range	max. 95% r. h.		
Housing protection	IP67, IK04		
Housing material	plastic ABS		
Dimensions:			
Contact part	$\phi$ 9 x 36 mm		
Magnet part	$\phi$ 9 x 25,5 mm		
Security grade (EN50131-2-6:2008)	2		
Approvals	VdS EN-ST-000097, SBSC 9-203, FG MKT-1010/09, INCERT B-582-1002, NF&A2P 2124030002B0		

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

## 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.

**Please note:**

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

**Applying excessive force to the magnet can have a negative impact on the magnetic field.**

## DISTANCES/DIRECTIONS

