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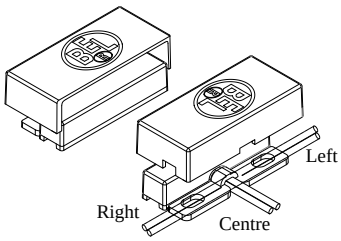
Magnetic Contact Sensor

EMC-1008 *(User's Guide)*

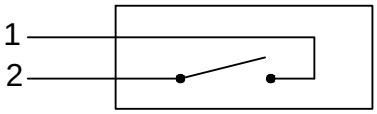
1. General Description

EMC-1008 is a magnetic contact with opening contact for surface mount. It can be used in security system and industrial control systems for protection of doors and windows against unauthorized opening. It is easy to mount with double sided tape or with screw mounting method. With enclosed plastic cover , its wires outlet can be route in multi direction.



Advantages of magnetic contact:
- Inconspicuous, small size
- High resistance to environmental influences thanks to sealed Epoxy
- Extremely high resistance to wear
- Simple installation

Connection



2. TECHNICAL DATA

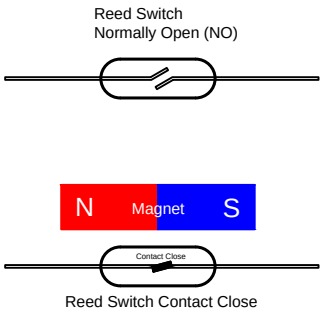
Working environment	Wood	Steel
Make distance (typical)	18 mm	10 mm
Break distance (typical)	21 mm	13 mm
Contact type	form A, SPST	
Switching voltage max.	40 V DC	
Switching current max.	250 mA DC	
Contact rating max.	10 W	
Estimated life expectancy	$1x10^8$ switching operations at 5Vdc - 1mA	
Operating temperature range	+5°C to +40°C	
Operating humidity	max. 95% RHIP	
Housing material	plastic ABS like	
Dimensions: Contact part	31 x 14 x 8 mm	
Dimensions: Magnet part	31 x 14 x 8 mm	

3. OPERATING PRINCIPLE

EMC-1008 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.

4. INSTALLATION

1. Contact and magnet should be installed in parallel, above or besides, facing each other. The BEL Logo on the contact and the magnet shall point towards each other.
2. 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).
3. Non-magnetic screws are to be used for mounting the contact.
4. All distances are in mm and may vary.
5. After the installation, use an ohmmeter to check the electrical connections and test the operation of the magnetic contact.
6. Excessive force to the contact or the magnet may have negative impact on the product's performance.
7. Always use a spacers or other accessory when installing on magnetic surface.



Do not leave problems unresolved. If a satisfactory solution cannot be achieved after troubleshooting a problem, please call authorizes person for assistant. Leave the door inoperable until satisfactory repairs can be made. Never sacrifice safe operations for an incomplete solution.

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