ABB i-bus® EIB

Magnet Reed Contact Set
MRS/❑, GH Q320 1972 R000❑

Application
Reed contacts monitor the opening of windows and doors.

Mode of operation
The reed contact is magnetically operated ba a separate permanent magnet. The two units are mounted in parallel (for surface mounting) or end (for drilling) at a
maximum distance of 10 mm apart.
If the distance between them is increased, the reed contact opens, thereby interrupting the zone.

Design
The set consist 1 magnet, 1 reed contact with 4.0 m connection cable LIYY 4 x 0,14 mm², 2 surface mount housing, 4 spacer plates, 2 flanges and 4 fixing screws (V4A antimagnetic).
The reed contact is encased in a circular housing and is thus protected against dust and damp.
The base plate is designed to hold the magnet or reed contact and enables 3 different cable outlets: lenthways, sideways and through the base of the plate for concealed wiring. Once the cap has been snapped into place, the fixing screws are also hidden.

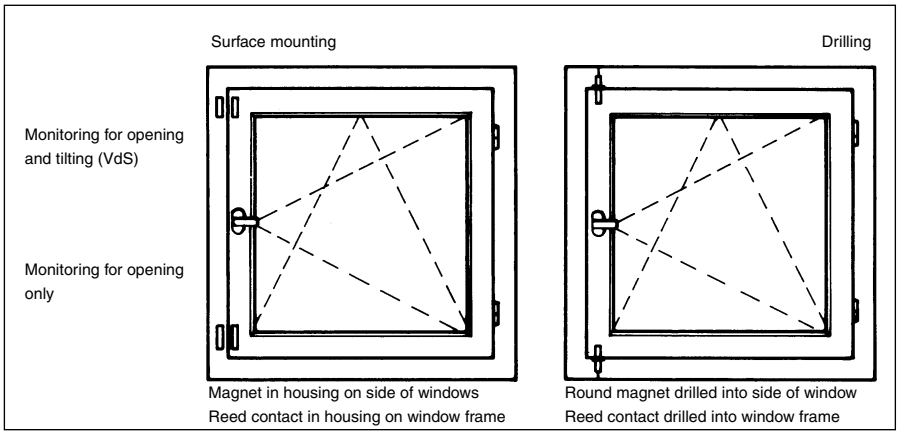
Installation
The installation should in principle be carried out within the monitored area, i.e., inside. The reed contact is either screwed onto the fixed part of the window (or door) together with the housing or drilled in place without the housing. The magnet is attached to the movable part of the window in the same way.
During installation, the reed contact is drilled into the frame and the magnet is drilled into the window casement. Prior the insertion, the reed contact or the magnet is bonded to the flanges with cyanacrylat quick-drying adhesive. After insertion, the glued flanges are lokked in position using V4A fixing screws.
It should be ensured that the reed contact and magnet are placed vertically on the top of each other for drilling and that the supplied screws and spacer plates are used when screw mounting onto steel doors.

Technical data

Reed contact:	
Connection cable	4.0 m, 4 x 0.14 mm² ZGL
Soldering lugs	0.55 x 7 mm
Max. switching resistance	150 mΩ
Max. switching voltage	60 VDC
Max. switching current	0.1 A
Max. switching capacity	5 VA
Contact material	Rhodium
Number of ampere turns	10 … 15 Aw
Temperature range	– 20 °C bis + 75 °C
Effective distance	
sideways:	max. 15 mm
end to end:	max. 15 mm
VdS approval	Class B - no. G 198 531
Magnet:	
Material	DYM
Dimensions	19 x 6 mm ø
Housing:	
Material	Polyamid
Resistant to temperature up to	100 °C
Colour white	RAL 9016
Colour brown	RAL 8017

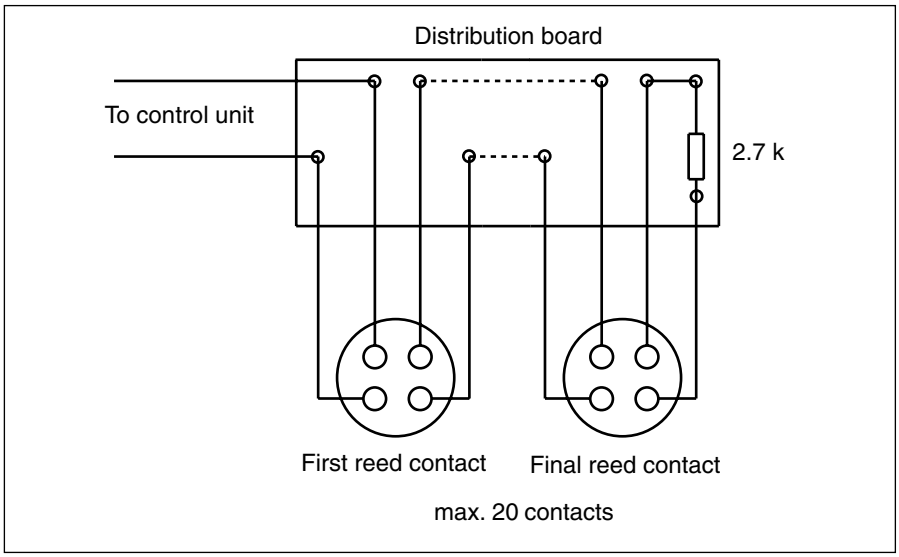
13

Installation examples



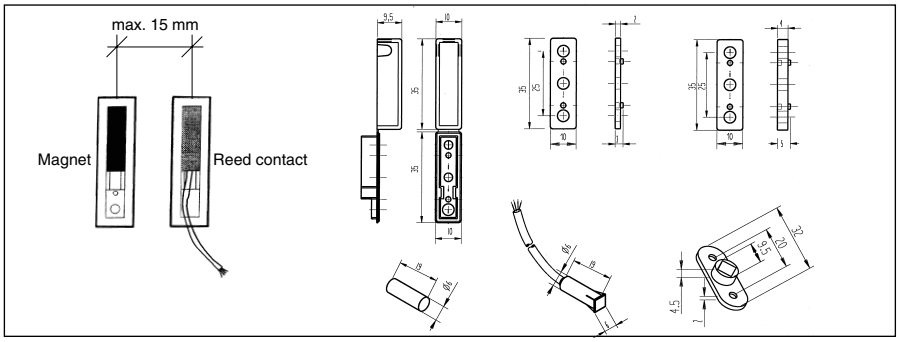
Wiring diagram

The configuration of the wires in the contact always guarantees that 2 adjacent wires can be connected to the control unit and the other two wires can be connected to the next detector or the EOL resistor. It is not necessary to measure the diameter of the cores.



13

Dimensions (in mm)



Ordering information

Typ	Colour	Product code
Reed Contact Set		
MRS/W	white	GH Q320 1972 R0001
MRS/B	brown	GH Q320 1972 R0002
VdS-No. G 19853 1		
Saver Set		
VMRS/W	white (20 Pc.)	GH Q320 1972 R0011
VMRS/B	brown (20 Pc.)	GH Q320 1972 R0012