

**SECURITY MAGNETICALLY CONTACT DETECTOR IO 102-15/1****Description**

IO 102-15/1 security magnetically contact detector is designed for locking doorways and windows, arranging "trapping" medium as well as locking other elements of buildings with an alarm signal raised to a control panel, concentrator or central surveillance system by opening reed switch contacts.

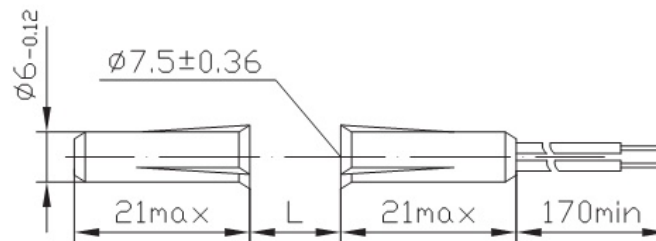
Detector consists of a reed sensor and driving element (magnet) in plastic housing. It is designed for continuous operation.

Installation:

For installation a wooden surface should be drilled. For mounting of the detector on the metallic surfaces between the case of the sensor (magnet) and metallic surface a gap no less than 30 mm should be created with the help of nonmagnetic materials.

Dimensions

Dimensions in mm

**Specifications**

Switching voltage range, V	0,05-72
Switching current range, mA	0,1-250
Switching power, W, max	10
Life min	10^6
Output electrical resistance	
• at closed contacts (at (100 ± 10) mA), Ohm, max	0,5
• at open contacts, kOhms, min	200
If sensor and magnet are located parallel contacts should be:	
• closed - at the distance between them, mm	≤ 10
• open - at the distance between them, mm	≥ 45
Allowable offset of sensor and magnet, mm, max	2
Insulation resistance between leads of sensor:	
• in normal climatic conditions, Ohms, min	$5 \cdot 10^6$
• at high relative humidity 98%, Ohms, min	$2 \cdot 10^5$
Breakdown voltage between sensor leads and case, V_{AC} / V_{DC} , min	500 / 700
Operating temperature range, °C	-50 ... +50
High humidity at +25 °C, %, max	98
Vibration proof at 10 to 35 Hz, $m \cdot sec^{-2}$ (g), max	4,9 (0,5)
Failure time, h, min	200000
Life time, years, min	8
Sensor/magnet weight, g, max	2,1/2,1