

ABB i-bus® KNX Magnetic Contact EnOcean, 868 MHz MKE/A 1.868.1, 2CDG 120 048 R0011



Device description

The Magnetic Contact EnOcean is a surface mounted device for windows or doors. Its purpose is to recognize the opening or closing of windows or doors. The EnOcean magnetic contact communicates on this with a gateway via radio. The frequency is 868.3 MHz. The interior range is up to 30 m, typically 5 – 10 m, depending on the structural conditions.

When using the ABB i-bus® KNX/EnOcean Gateway EG/A 32.2.1, to link to the KNX-Bus, the signal strength can be measured with the ABB i-bus® Tool.

The window contact supplies itself with power via a solar cell and does not require a battery or other supply voltage.

The learn button is located in the interior of the device and can be reached via the rear side or by removing the upper section from the lower section.

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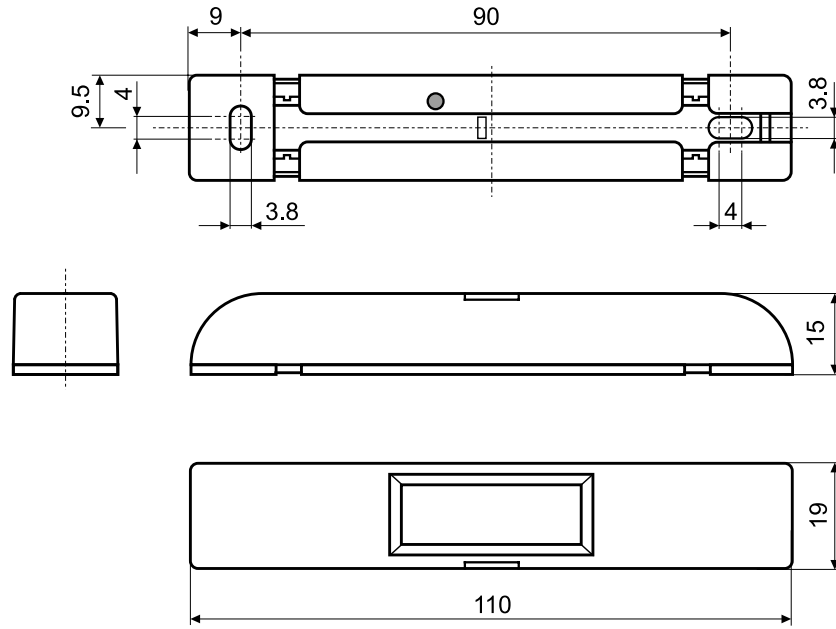
Technical Data

Power supply	via integrated solar cell; no external power supply necessary	
	Illumination	50 – 100.000 Lux
	Operation time in darkness (at 25 °C)	approx. 175 hrs.; min. 90 hrs. (if energy storage fully charged transmission of telegram every 25 min on average) ¹
	Time until operational when battery is empty	typically 2.5 min at 400 lux and 25 °C
	Required recharge time at 200 lux, within 24 hrs, for ongoing operation at room temperature (25 °C)	1.8 hrs (approx. 110 min) (+/- 20 %)
Mounting	adhesive or with screws (not included) at the window or door frame	
	Distance of magnet to transmitter module	less than 5 mm
Operating elements	EnOcean Teach-In Button in the transmitter module. Access via hole in rear side of the lower section or by removing the upper section from the lower section	
Display elements	LED inside the transmitter module Displays the sending of signals	
Antenna	pre-installed helical antenna	
Frequency	868.3 MHz	
EnOcean Equipment Profile (EEP)	D5-00-01	
Interior range EnOcean	up to 30 m, typically 5-10 m; dependent on building structure	
Temperature range	Operation	- 20 °C ...+ 60 °C
	Storage	- 20 °C ...+ 60 °C
	Transport	- 25 °C ...+ 70 °C
Shelf life	in absolute darkness	24 months after delivery
Ambient conditions	maximum air humidity	93% no condensation allowed
Protection type	IP40	to EN 60 529
Pollution degree	2	to EN 60 664-1
Installation position	any (sufficient illumination has to be ensured)	
Design	Transmitter module dimensions (H x W x D)	15 x 19 x 110 mm
	Magnet dimensions (H x W x D)	5 x 10 x 37 mm
	Material	plastic PC/ABS
	Colour	white
Weight	0.1 kg	
CE-Conformity	according to EN 60730	
RoHS conformity	compliant with RoHS directive (2011/65/EG)	

¹ Full performance of the energy storage is achieved after several days of operation (up to two weeks) at good illumination level. Performance degrades over life time, especially if energy storage is exposed to higher temperatures.

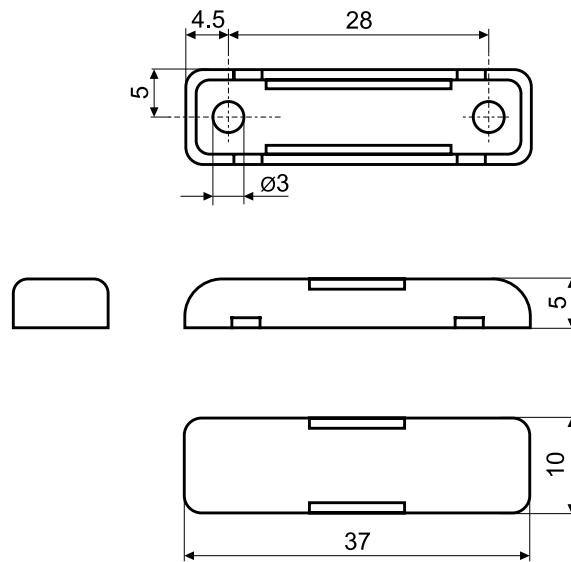
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Dimension Drawing



2CDC 082 001 F0014

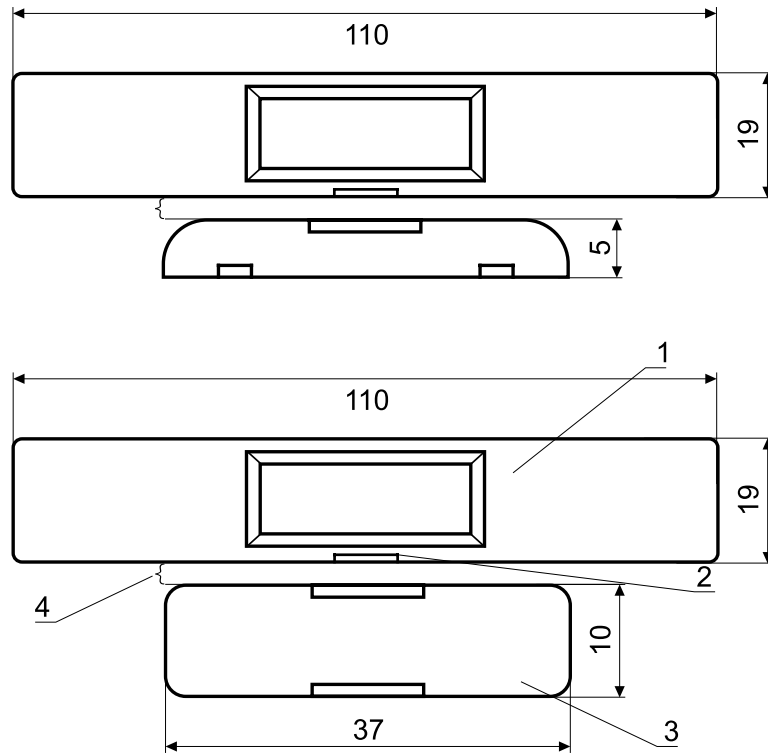
Dimension Drawing



2CDC 082 002 F0014

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Mounting



- 1 Transmitter module
- 2 Marking for positioning
- 3 Magnet with housing
- 4 Distance of transmitter module to magnet (< 5 mm)

Mounting

The transmitter module is attached above/next to the window or door with screws or adhesive strips. In order to screw it tight, the upper section of the transmitter module has to be removed from the lower section. The magnet can be attached in its housing to the door or the window. In doing so, the positioning, marked by an indentation next to the solar cell on the transmitter module, has to be executed correctly. The magnet has to be as near as possible to the marking. Alternatively, the magnet can be taken out of its housing and place into a hole in the window or door. In doing this, however, the correct distance to the transmitter has to be observed.

Depending on the material of the door or window, the transmitting power of the EnOcean magnetic contact may decrease. It is recommended to perform a measurement of the signal strength before the final mounting.

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Operation and teach-in

The learn button is located in the interior of the transmitter module. It can be pushed through the rear side with a thin object. The upper section of the transmitter module must be removed and the interior button activated, for the teach-in on a mounted device.

Important notes
Installation and commissioning of the device may only be carried out by trained electricians. The relevant standards, directives, regulations and instructions must be observed when planning and implementing the electrical installation.
Protect the device against moisture, dirt and damage during transport, storage and operation!
Do not operate the device outside the specified technical data (e.g. Temperature range)!

Important
The KNX/EnOcean Gateway uses the 868 MHz frequency band for the transmission and reception of data which has been approved for EnOcean in the European Union, Switzerland, Turkey and Norway. Further details can be found in the EnOcean Radio Approval Overview: www.enocean.com/fileadmin/redaktion/pdf/tec_docs/EnOcean_Radio_Approvals_Overview_May2014.pdf
Please ensure that the product is suitable for application in the intended country of final installation and use before purchase.

Cleaning

Should the device become soiled, it may be cleaned with a dry cloth. If this does not suffice, a cloth lightly moistened with soap solution may be used.

On no account should caustic agents or solvents be used.

Maintenance

The device is maintenance free. Should damage have occurred, e.g. due to transport or storage, no repairs should be carried out.

Contact

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