

## Wireless Magnet Contact STM 250

**STM 250 is a wireless magnet contact. Powered by a solar cell it works absolutely maintenance-free. An integrated energy store allows operation for several days even in total darkness.**

**The reed contact housing and the magnet housing are very small. This means that the EnOcean magnet contact is unobtrusively mountable at every window frame made of aluminum, plastic or wood.**



The STM 250 supervises an integrated reed contact and reports every status change immediately (open<>closed). In addition a sign of life signal is send around every 15 minutes. The STM 250 serves the 868 MHz air interface protocol of EnOcean. Together with the serial interface output of receiver module RCM 120 this product can be easily integrated into different application-specific system solutions.

This product is CE certified and conforms to the R&TTE EU-Directive on radio equipment. The EnOcean 868 MHz radio technology can be approved for operating in the USA and in Canada.

**Type**  
**STM250**

**Ordering Code**  
**S3001-C250**

### Features overview

<b>Power supply</b>	provided by a small solar cell (Solar Power Generator)
<b>Antenna / Transmission range</b>	internal Helix / 300m free field, typ. 30 m indoor
<b>Frequency / Transmission power</b>	868.3 MHz / max. 10 mW
<b>Data rate / Channel bandwidth / Modulation type</b>	120 kbps / 280 kHz / ASK
<b>Reed contact</b>	1 x internal
A change of the reed contact status will wake the transmitter unit to send a radio telegram immediately (reed contact position, unique 32-bit sensor ID, checksum). In addition a presence signal is sent every 5-30 minutes (15 minutes typ.) to announce the contact status even in case of no input signal changes (sign of life).	
<b>Operation start up time with empty energy store</b>	< 10 min @ 400 lx
<b>Illumination time for loading empty energy store to 14h operation in total darkness</b>	≈ 5 h @ 1000 lx, ≈ 13 h @ 400 lx <sup>1)</sup>
<b>Illumination time for reloading energy store from module working limit to 14h operation in total darkness</b>	< 20 min @ 400 lx, < 1 h @ 100 lx <sup>1)</sup>
<sup>1)</sup> RF signal transmission every 15 min. on average (presence signals only)	
<b>Operation time during total darkness</b>	> 6 days <sup>2)</sup>
<sup>2)</sup> Energy store is filled @ 400 lx to 90% of capacity, RF signals every 15 min. on average (presence signals only)	
<b>Teach-in pushbutton</b>	internal snap-button for operating at open case
<b>Indicator for teach-in telegram transmission</b>	LED beside teach-in button
<b>Dimensions of reed contact housing</b>	base 110 mm x 19 mm x height 15 mm
<b>Dimensions of magnet housing</b>	base 37 mm x 10 mm x height 5 mm
<b>Colour of housing</b>	signal white (similar to RAL 9003)
<b>Operating temperature</b>	-25 up to +65 °C