

## Magnet Contact Transmitter Module STM 429J

The radio transmitter modules STM 425J and STM 429J from EnOcean enable the implementation of a wireless magnet contact sensor.

Powered by a solar cell, they work absolutely maintenance-free.

An integrated energy store allows operation for several days even in total darkness.

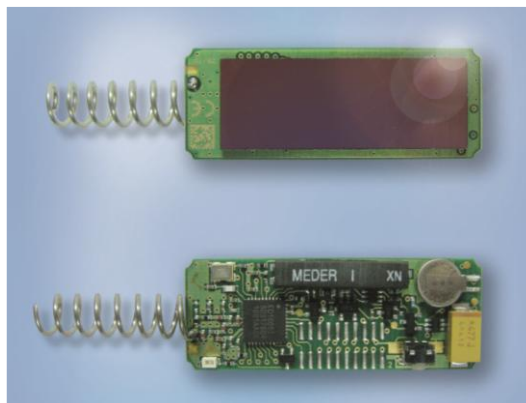
The module can be switched via LRN Button to enhanced security mode with encrypted communication.

Key applications are window and door sensors.

### Functional Principle

STM 429J supervise an integrated reed contact and report every status change immediately (open<>closed).

In addition a sign of life signal is transmitted every 20-30 minutes.



**Type**  
STM 429J

**Ordering Code**  
S3061-D429

### Features Overview

|   |   |
|---|---|
| <b>Power supply</b>                                 | provided by a small solar cell                            |
| <b>Antenna</b>                                      | pre-installed helical antenna                             |
| <b>Frequency</b>                                    | 928.35 MHz  |
| <b>Conducted output power</b>                       | typ. 0 dBm  |
| <b>Data rate / Modulation type</b>                  | 125 kbps FSK  |
| <b>Radio Regulations</b>                            | ARIB STD-T108   |
| <b>EnOcean Equipment Profile</b>                    | D5-00-01  |
| <b>Start-up time with empty energy storage</b>      | typ. <2.5 min @ 400 lux, 25°C                             |
| <b>Operation time in darkness @25°C<sup>1</sup></b> | min. 10 days, if energy storage fully charged             |
| <b>Reed contact</b>                                 | 1x internal, Meder MK23-90-BV14496 or MK01-I              |
| <b>Teach-in button</b>                              | STM 420J sideward oriented / STM 429J vertically oriented |
| <b>Transmission indicator</b>                       | 1x LED  |
| <b>Module dimensions</b>                            | 43 x 16 x 6 mm  |
| <b>Operating temperature<sup>1</sup></b>            | -20 up to +60 °C  |
| <b>Security Level Format</b>                        | 24-bit RLC, No RLC tx, 4-byte CMAC, VAES encryption       |

<sup>1</sup> At default configuration (wake-up cycle 100 s, transmission cycle 1000 s).