

## Transmitter Module PTM 330F

**The radio transmitter module PTM 330F from EnOcean enables the implementation of wireless sensors and switches without batteries.**

### Functional Principle

When an energy pulse is supplied (e.g. by the motion energy harvester ECO 200 from EnOcean) an RF telegram is transmitted including a unique 32-bit module ID, the polarity of the energy pulse, and the operating status of up to 4 digital inputs.

PTM 330F can be connected to ECO 200 via a contact spring.

There are two meander structures on the PCB which allow usage of a rubber pad to set the level of two digital inputs.

PTM 330 can be mounted as an SMD component onto a host PCB. In this case energy supply pins and digital input pins are accessible via contact pads.



### Features overview

|                                    |   |
|------------------------------------|---|
| <b>Power supply</b>                | ECO 200 or equivalent energy pulse  |
| <b>Antenna</b>                     | Pre-installed whip antenna  |
| <b>Frequency</b>                   | 868.3 MHz   |
| <b>Transmission power</b>          | typ. 3 dBm at antenna base  |
| <b>Data rate / Modulation type</b> | 125 kbps / FSK  |
| <b>Telegram type</b>               | RPS of type 2 (allows interpretation of operating two buttons simultaneously) |
| <b>Digital inputs</b>              | 4   |
| <b>Transmission range</b>          | up to 200 m free field, up to 30 m indoor                                     |
| <b>Module dimensions</b>           | 26.2 x 21.15 x 3.5 mm   |
| <b>Operating temperature</b>       | -25 up to +65 °C  |