

Date: 09.04.2009

Contact Block: DMF_A

General Data

Type Reference:	DMF_A
Description:	Transmitter module for wireless pushbutton, battery-free
Approvals:	CE
Protection class:	II (protective insul.)
Operation travel:	6 mm
Max. storage temperature:	-20°C ... 65°C
Max. operating temperature:	+5°C ... 60°C
Mechanical life:	50000

Note

Energy input	EPulse > 0.45mWs, 2.5V ≤ Umax ≤ 5.5V 0.001ms ≤ TPulse ≤ 11ms
Antenna	Lambda/4-whip antenna mounted
Frequency/Transmission power	868.3 MHz / max. 10 mW EIRP
Data rate	120 kbps
Bandwidth	280 kHz
Modulation type	ASK
Telegram type	RPS type 2, 32 bit ID, 3 telegrams within 25 ms
Min. time between activations	45 ms
Transmission range	300 m in a free field, this range is strongly dependent on surrounding materials and on position relative to other energy generators or metal surfaces
Dimensions	approx. 43 x 45 x 29 mm
Humidity	0-93% r.h. non-condensing
Transmitter module:	PTM230 (enocan)

Advantages:

- no extra power supply necessary in the sender
- no additional wiring and cable routing
- long reach 300 m (in a free field)
- based on EnOcean protocol
- easy programming of receiver
- can be combined with pushbuttons and 2-position selector and key actuators
- in accordance with the directives R&TTE 1999/5EC, 89/336/EC

Functional Principle:

The required energy for wireless transmission is generated by an electrodynamic power converter from the pushbutton motion. With the short energy pulse, a telegram is transmitted to the receiver including a 32-bit module ID of the relative pushbutton and its switching position.

One signal is transmitted by the type DMF_A; suitable for all pushbutton heads, 2-position selector heads and key actuators.

- subject to alterations -