



M9-PCS

People Counter Sensor

Description

Magnum First's people counting sensor (M9-PCS) is used to count the number of people passing by the sensor. The M9-PCS will detect the direction of movement, and will increase / decrease the internal counter value (8 bit). The counter is implemented as auto roll-over. So it will increment from 255 to 0, and decrement from 0 to 255. The M9-PCS is supplied by two internal 1.5 V AA batteries. The innovative power saving technology will allow the M9-PCS to work at least 5 years without any maintenance / changing the batteries.

Technical data

Interfaces

Type	EnOcean
Number	1
Transmit / receive center frequency	902.875 MHz
Frequency range used	902.875 – 902.875 MHz
Maximum transmission power	+99 dBμV/m

Sensor: Motion detection (bi-directional)

Measuring range	0,5 – 2,0 m
Accuracy	Up to 100 %

User interfaces

Service button	Yes
Service LED	-

Housing

Housing	Plastic, PC, different colors
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Power supply

Power supply	2x AA batteries, 1,5 V
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Environmental conditions

Operating temp.	+15..40 °C
Storage temp.	-20..+70 °C
Rel. humidity	0..99 % rel. humidity, non-condensing
Protection class	IP20

Dimensions and weight

Weight	87 g
Dimensions	Approx. 36 x 37 x 80 mm

Tests / approvals

FCC Rule parts	15.231
Equipment class	Part 15 Security / Remote control



Power supply

The **M9-PCS** is supplied by 2 internal batteries of Type AA, 1.5 V each. Batteries lifetime will be at least **5 years** without maintenance.

EnOcean

The integrated EnOcean transceiver enables bi-directional communication with a building management system or EnOcean actuators.

Functions of the M9-PCS

Operational description of People counting / data transmission rules

The sensor works on the basis of two PIR sensors, which, depending on the signal, evaluate a counting pulse in the positive or negative direction.

Each time motion is detected, the counter value changes accordingly.
The changed counter value (+/-) is immediately sent via EnOcean.

Power supply voltage monitoring

For support remote maintenance, the power supply voltage is monitored and send via EnOcean included in each message.

Transmit a Learn Telegram

The M9-PCS sends a teach-in telegram as soon as you press the internal service button briefly (< 1 second) with a suitable tool (typical paper clip).

