
AL-436-00-921 EnoSense® People Counter

**EnOcean Sensor for people counting / PIR based
batteries 2x AA, EnOcean 921.7 MHz / KOREA**

Part no. 12756 (beige) / 12755 (black) / 12537 (white)

Interfaces:

Integrated sensors for people passing by detection (incoming/outgoing)

1x EnOcean bi-directional (internal antenna), supply: internal batteries, 2x AA, 36 mm x 37 mm x 80 mm



The people counting sensor of the type **AL-436-00-921 EnoSense People Counter** is used to count the number of people passing by the sensor.

The **AL-436-00-921** will detect the direction of movement, and will increase / decrease the internal counter value (8 bit).

The counter value (1 byte) will be transmitted as described further below. The counter is implemented as auto roll-over. So it will increment from 255 to 0, and decrement from 0 to 255.

The **EnoSense People Counter** is supplied by two internal 1.5 V AA batteries.

The innovative power saving technology will allow the AL-436-00-921 to work at least **5 years** without any maintenance / changing the batteries.

Technical data

Interfaces

Type	EnOcean
Number	1
Operating frequency	921.7 MHz
Transmission power	0 dBm
Modulation type	FSK
Number of channels	Ch 24 (921,7 MHz)
Transfer / data rate	125 kbit/s

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, 1,5V internal
Power	Typ. 1 mW, 50 µA
Power rating	3 V DC, 0.05 A max.

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

Table of supported EEP (EnOcean Equipment Profile)

Transmit / TX

Cons. nr.	EEP	Description	Tx-ID
1	47-D1-07-10 (MSC)	Counting value, bit (BYTE 0)+ Power supply voltage, 8 bit (BYTE 3)	Base-ID

Receive/ RX

The **EnoSense People Counter** only sends EnOcean telegrams. No data is received / interpreted.

MSC data structure

Data field	People	Data field	Voltage	Data field	Switch	Data field	Error
Offset	40	Offset	16	Offset	24	Offset	32
Size	8	Size	8	Size	8	Size	8
Range min / max	0 / 255	Range min / max	0 / 255	Range min / max	0 / 255	Range min / max	0 / 255
Scale min / max	0 / 255	Scale min / max	0 / 5.1	Scale min / max	0 / 255	Scale min / max	0 / 255
Unit	-	Unit	V	Unit	-	Unit	-
Meaning	Counter value	Meaning	Supply voltage	Meaning	Reserved	Meaning	Reserved

Short description

Power supply

The **EnoSense People Counter** 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 communication with a building management system or EnOcean actuators.

Functions of the EnoSense People Counter

Operational description of People counting / data transmission rules

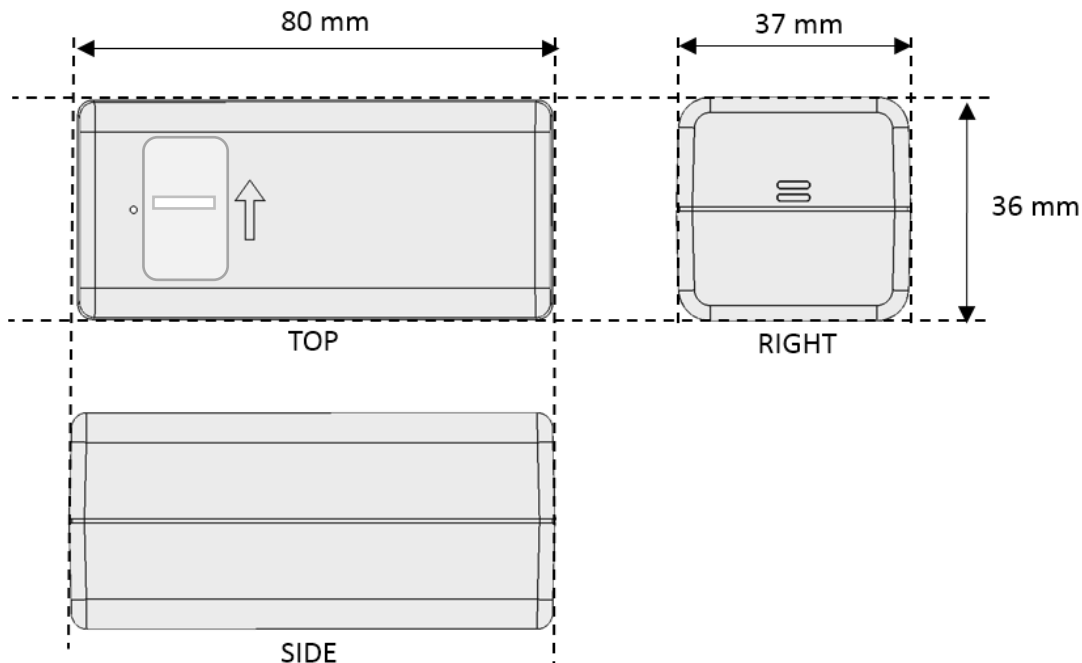
The sensor works on the basis of two PIR sensors, which, depending on the signal, evaluate a counting pulse in the positive or negative direction.

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.

Dimensions: 36 mm x 37 mm x 80 mm



Part name	Part nr.	Description
AL-436-00-921 EnOcean sensor „EnoSense People Counter“ / beige / KOREA	12756	Sensor EnOcean “EnoSense People Counter”, for counting people passing by (bi-directional); for mounting on smooth surfaces; EEP: 47-D1-07-10; Supply voltage 2x AA 1.5 V internal, Dimensions 36 x 37 x 80 mm, EnOcean 921.7 MHz, KOREA, Housing: PC, beige (similar to RAL 9010 / pure white); incl. adhesive pad
AL-436-00-921 EnOcean sensor „EnoSense People Counter“ / black / KOREA	12755	Sensor EnOcean “EnoSense People Counter”, for counting people passing by (bi-directional); for mounting on smooth surfaces; EEP: 47-D1-07-10; Supply voltage 2x AA 1.5 V internal, Dimensions 36 x 37 x 80 mm, EnOcean 921.7 MHz, KOREA, housing: PC, Signal black (RAL 9004); incl. adhesive pad;
AL-436-00-921 EnOcean sensor „EnoSense People Counter“ / white / KOREA	12537	Sensor EnOcean “EnoSense People Counter”, for counting people passing by (bi-directional); for mounting on smooth surfaces; EEP: 47-D1-07-10; Supply voltage 2x AA 1.5 V internal, Dimensions 36 x 37 x 80 mm, EnOcean 921.7 MHz, KOREA, housing: PC, Signal white (RAL 9003); incl. adhesive pad;

Version 02, 26.06.2023