

EnoSense® Presence Count / white / CE

Sensor to count people in an open space area or in a room;

With TOF (Time of Flight) and Thermal Sensor array,

EnOcean 868 MHz 86 x 86 x 40 mm

Part no. 12588

Interfaces:

Integrated Time of Flight (TOF) sensor (940 nm) and IR Thermal sensor array.

1x EnOcean (internal antenna), external power supply, 86 x 86 x 40 mm



The sensor of the type **EnoSense® Presence Count** is used to count the number of people in an area of 5,0 x 3,5 m. There are two **Time of Flight (ToF)** sensors with a total resolution of 16 x 8 tiles, and an overlaid Thermal sensor array with a resolution of 32 x 24 tiles.

With this combination of technologies and measurement principles, the sensor can count the number of people in an area based on the height measured by TOF and the temperature in the tile.

The sensor can be supplied by an external power supply (5 .. 60 V DC), USB or Power Over Ethernet (PoE).

For installation, service and maintenance the **EnoSense® Presence Count** has ten internal RGB LEDs to show the device status during bring-up and installation process.

The number of people is transferred wireless via EnOcean® technology.

Technical data

Interfaces

Type	EnOcean
Quantity	1
Transmit/receive center frequency	868.3 MHz / ASK
Frequency range used	868.0 – 868.6 MHz
Maximum transmission power	Type. 6 dBm @ 868.300 MHz

Sensors:

Number of sensors	2x Time Of Flight (ToF), frontal 1x Thermal Sensor Array, frontal
Max. mounting height	Max. 4 m
Counting area	@ 2.5 m: 4.0 x 1.8 m / 13.1 x 5.9 ft @ 3.0 m: 5.0 x 2.0 m / 16.4 x 6.6 ft @ 4.0 m: 7.0 x 3.0 m / 23 x 9.8 ft

User interfaces

Service button	Yes, on the side
Service LED	Yes, 10x RGB

Power supply

Supply voltage	- PoE - USB - 12..60 V DC
Power consumption	typ. 0.5 W max. 1.0 W

Environmental conditions

Operating temperature	0 °C ... +60 °C
Storage temperature	-20 °C ... +70 °C
Air humidity	0..95% relative humidity, non-condensing
Protection class	IP20

Dimensions and weight

Weight	80 g
Dimensions	86 x 86 x 40 mm

Housing

Housing	Main: ABS-FR, white Dome: Somos® Ledo 6060 or similar
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Tests / approvals

CE	2014/53/EU RED Directive 2011/65/EU + Annex 2015/863/EU RoHS-3 Directive
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Table of supported EEP (EnOcean Equipment Profile)

Transmit / TX

Cons. nr.	EEP	Description	Tx-ID
1	MSC (t.b.d.)	Number of people (0 .. n)	EURID

Receive/ RX

Cons. nr.	EEP	Description
-	-	-

Short description

Power supply

The **EnoSense® Presence Count** can be supplied by one of the following external power supply sources::

- External power supply, 12 .. 60 V DC
- USB (+ 5.0 V)
- Power Over Ethernet PoE / RJ45

EnOcean

The integrated EnOcean transceiver enables uni-directional communication with a building management system.

Functions of the EnoSense® Presence Count

The Time of Flight (TOF) sensors will continuously measure the height above ground / distance from the sensor of somebody or something in any tile of the 8 x 16 sensor field.

To be able to distinguish between inventory and a human being, a Thermo sensor array is overlayed, and measure also the temperature within a tile.

In this way, the sensors count areas where a presence is detected and a temperature in the range between 36 °C and 40 °C is counted.

Transmit interval

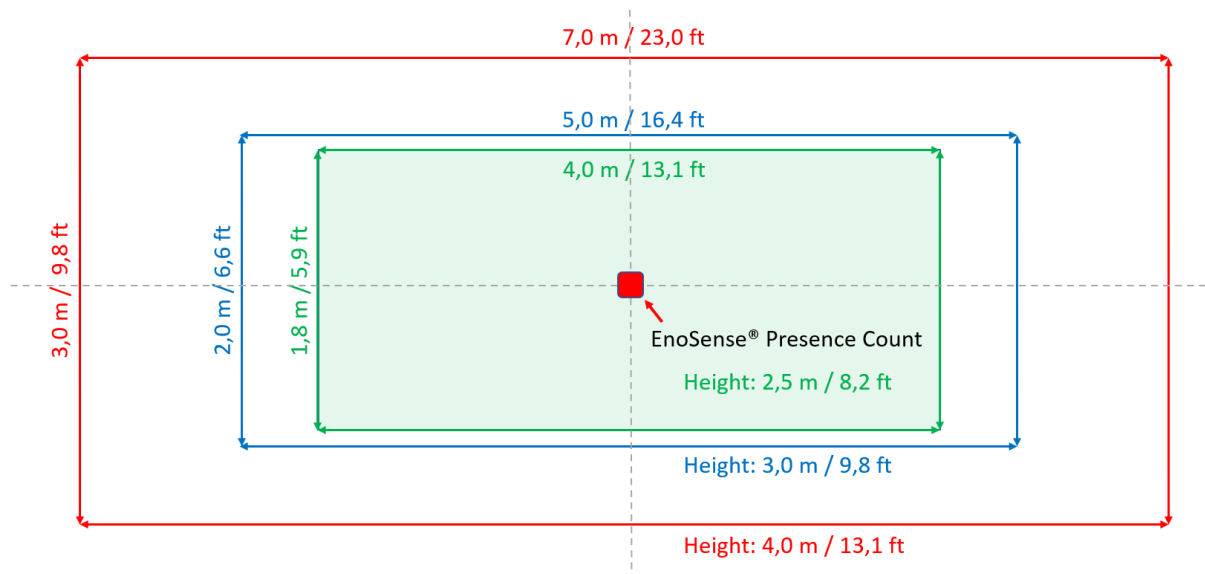
Each time the number of counted people will change, the EnoSense Presence Count will send a new message immediately.

The default TX interval of the **EnoSense® Presence Count** without any change of the counted value is set to **4 minutes**.

Detection / Counting area

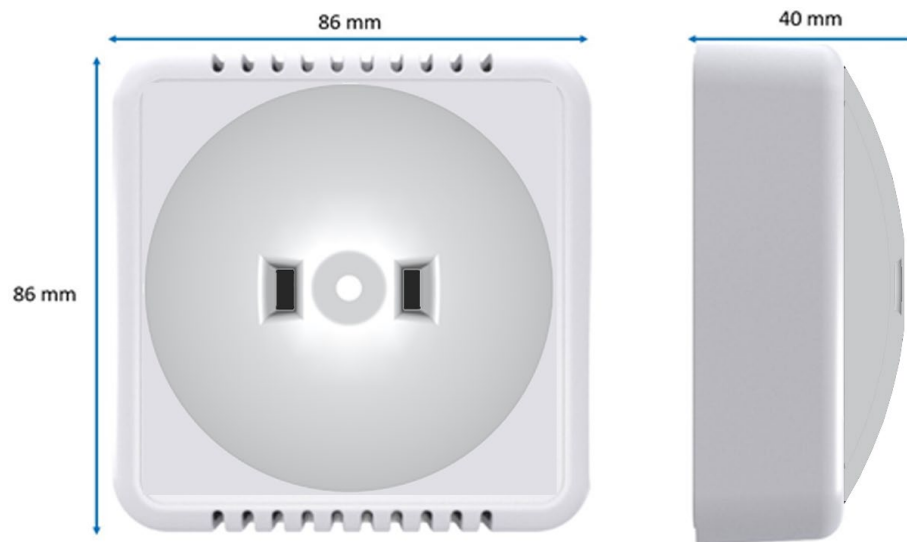
The detection / counting area depends strongly on the mounting height of the EnoSense Presence Count sensor:

- Height 4.0 m: Area of 7.0 x 3.0 m / 23 x 9.8 ft
- Height 3.0 m: Area of 5.0 x 2.0 m / 16.4 x 6.6 ft
- Height 2.5 m: Area of 4.0 x 1.8 m / 13.1 x 5.9 ft



Dimensions:

84 x 84 mm; Height: main housing .25 mm+ 15 mm lens cover



Ordering information

Part name	Part nr.	Description
AL-460-00-868 EnoSense® Presence Count / white / CE	12853	Combined time-of-flight and thermal sensor array, ceiling mounting, mounting height 2.5...4.0 m, detection area 7 x 3 m at a height of 4 m, EnOcean 868.3 MHz / CE, dimensions: 86 x 86 x 40 mm, ambient temp. 0..60 °C, power supply: POE / USB / 12..60 V DC



Note according to FuAG §20 para. 4:

This device is only approved for operation within the member states of the European Union.

EU Declaration of Conformity

Hereby, DEUTA Controls GmbH declares that the radio equipment type **AL-460-00-868 EnoSense® Presence Count / white / CE** is in compliance with Directive 2014/53/EU. The full text of the EU Declaration of Conformity is available at the following Internet address: www.deuta-controls.net in the Service/Downloads section (Doc. EUDC2025_201).

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