
AL-432-00-902 EnOcean Motion Detector (902 MHz) "EnoSense PIR Ceiling", 114 x 66 x 31 mm

Self-powered motion and illumination sensor

Part nr. 12394

Interfaces:

EnOcean, NFC, power supply: integrated solar cell + backup battery CR1632



The **EnoSense Ceiling PIR** is a flexible self-powered ceiling mounted sensor to detect person movement and is also capable of measuring ambient light level.

It enables the realization of energy harvesting wireless sensors for light, building or industrial control systems communicating using the EnOcean radio standard.

The housing of the **EnoSense Ceiling PIR** has dimension of approx. 114 x 66 x 31 mm, and has been designed to be mounted on or below a table.

The **EnoSense Ceiling PIR** integrates the following sensors:

- PIR sensor for motion detection
- Illumination

Technical data

Interfaces

Type	EnOcean
Number	1
Transmit / Receive frequency	902.875 MHz
Occupied frequency band	902.875 – 902.875 MHz
Maximum transmission power	+99 dB μ V/m

Type	NFC
Number	1

Sensors: Brightness

Measuring range	0 – 65.000 lux
Accuracy	\pm 10 %

User interfaces

Button	Yes, LRN-button
LED	Yes, indicates data transmission and diagnostic information, like walktest

Housing / connectors

Connector	-
Housing	PC, white

Sensors: PIR

Recommended installation	2,5 – 3,0 m
Motion detection radius	5,0 m radius @ 2,5 m height

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Power supply

Supply voltage	Integrated solar cell
Backup battery	CR1632

Dimensions and weight

Gewicht	200 g
Dimensions	114 x 66 x 31 mm

Environmental conditions

Operating temperature	0 ° .. + 60 °C
Storage temperature	-20 ° .. + 70 °C
Humidity	20 % .. 85 % rel. humidity, non-condensing
Protection class	IP20

Standards / approvals

CE	2014/53/EU RED directive 2011/65/EU RoHS directive
Approvals / tests	EN 301489-1 : V2.2.0 EN 301489-3 : V2.1.1 EN 300220-2 : V3.1.1
FCC Rule parts	15.231
Equipment class	Part 15 Security / Remote control

Table of supported EEP's (EnOcean Equipment Profile)

Transmit/ TX

Cons. nr.	EEP	Description
1	A5-07-01	Occupancy with Supply voltage monitor
2	A5-07-03 (default)	Occupancy with Supply voltage monitor and 10-bit illumination measurement
3	A5-08-01	Light, temperature and occupancy sensor, range 0 lx to 510 lx, 0 °C to + 51 °C and occupancy
4	A5-08-02	Light, temperature and occupancy sensor, range 0 lx to 1020 lx, 0 °C to + 51 °C and occupancy
5	A5-08-03	Light, temperature and occupancy sensor, range 0 lx to 1530 lx, -30 °C to + 50 °C and occupancy

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Ordering Information

Article text	Part nr..	Part description
AL-432-00-902 EnOcean motion detector "EnoSense PIR Ceiling"	12394	Combined PIR motion detector and brightness sensor, ceiling mounting, EnOcean 902 MHz, mounting height 2.5 ... 3.0 m, detection radius typ. 5 m at a height of 2.5 m, Brightness sensor: 0 .. 65,000 Lux +/- 10%, integrated solar cell, backup battery CR2032 (optional), min. Light intensity 200 lux for 6 hours a day, typically 96 hours running time without light, Dimensions: 114 x 66 x 31 mm, ambient temp. 0..60 ° C, CE, FCC

FCC (United States) Regulatory Statement

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

To comply with FCC/IC RF exposure limits for general population / uncontrolled exposure, the antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter

Warning

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Interference

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the re-ceiver is connected
- Consult the dealer or an experienced radio/TV technician for help.

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Technical data might change

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