

AL-437-03-868 EnoSense® Desk VIB, CE

Sensor for detecting occupied workstations Art. no. 12846

Interfaces:

Sensors for vibration and acceleration

EnOcean unidirectional (internal antenna), supply: CR2032 / +3 V DC, 81 x 41 x 9 mm



The **EnoSense® Desk VIB** offers the possibility of detecting the occupancy of a workstation and transmitting this information wirelessly in accordance with the **EnOcean** radio standard.

It is powered by an internal CR2032 battery. The service life is at least 5 years until the battery is replaced.

It **can be** mounted **either on the top or bottom of the table surface using the** double-sided adhesive pad supplied.

The EEP (EnOcean Equipment Profile) **A5-07-01** is used.

The evaluation is configured via the integrated service button and the green LED as feedback.

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

Sensor: Vibration / Acceleration

Measuring range	± 2 g
Threshold value triggering	0.03 g

User interfaces

Service button	Yes, front side
Service LED	Yes, back

Housing

Housing	Plastic, PC, white
---------	--------------------

Power supply

Supply voltage	CR2032, +3 V DC
Power consumption	Type. 2 µA

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	19 g
Dimensions	81 x 41 x 9 mm

Tests / approvals

CE	2014/53/EU RED Directive
	2011/65/EU + Annex
	2015/863/EU RoHS-3
	Guideline

Table of supported EEP (EnOcean Equipment Profile)

Transmit / TX

No.	EEP	Description	Tx-ID
1	A5-07-01	Sensor for motion detection with voltage monitoring	BASE ID

Receive / RX

No. No.	EEP	Description
-	-	-

Device description

Power supply

The **EnoSense® Desk VIB** is powered by the CR2032 battery included in the scope of delivery. The current consumption is 2 µA.

EnOcean

The integrated EnOcean transceiver enables unidirectional communication with actuators or a higher-level control system.

Service LED

The **EnoSense® Desk VIB** has a green LED on the back to indicate the status.

Service button

If the service button is pressed briefly (< 1 s), the **EnoSense® Desk VIB** sends a learning telegram and exits flight mode if it was previously active.

How the EnoSense® Desk VIB works

Vibration / acceleration detection

The **EnoSense® Desk VIB** has a high-precision acceleration sensor with a preset trigger threshold of 0.03 g.

If the limit value is exceeded, the **EnoSense® Desk VIB** immediately sends the message "Motion detected" if configured accordingly.

Battery status

The **EnoSense® Desk VIB** sends its current battery voltage in every data telegram.

Sending EnOcean radio telegrams

If the sensor is not in flight mode, it transmits as follows:

- Immediately as soon as movement is detected.
- "Movement detected" every 4 minutes if movement continues.
- At the end of the movement, a "No movement detected" message appears once.
- Every 60 minutes a "no movement detected" message (heartbeat).

Sending the learning telegram

The **EnoSense® Desk VIB** has a service button in the device. This is located on the front and can be operated with a paper clip, for example:

If the button is pressed once briefly for less than one second, a learning telegram for the EEP A5-07-01 is sent.



Flight mode

Entering flight mode

If the service button is pressed and held, the LED starts flashing after approx. 4 seconds. If the button is released again as soon as the LED stops flashing, the sensor switches to flight mode. The LED flashes again briefly as confirmation. In addition, the **EnoSense® Desk** transmits a SIG telegram 0x0E (TX MODE OFF) for confirmation.

Exit flight mode

If the service button is pressed once briefly when a sensor is in flight mode, the LED flashes twice briefly to confirm that flight mode has been exited.

The **EnoSense® Desk VIB** also sends a learning telegram.

Assembly

It can be mounted on or under the table top using the adhesive pad provided.



Figure 1: Mounting under the table



Figure 2: Mounting on the table

Order information

Article name	Item no.	Article description
AL-437-02-868 EnoSense Desk VIB / white / CE	12846	Sensor EnOcean "EnoSense Desk VIB", for mounting on desk surfaces; Option: Vibration only, without PIR; Measuring ranges: Vibration $\pm 2g$, threshold 0.03g; PIR detection angle -5 °/ +85 °; Ambient temperature: 0 °C ..+60 °C / 0 .. 95% r.h.; Dimensions: 81 x 41 x 9 (+17) mm; EEP: A5-07-01, Battery CR2032, included; EnOcean 868 MHz, CE, housing: PC, color: similar to signal white (RAL 9003)

Note according to FuAG §20 para. 4:

This appliance is only approved for use within the member states of the European Union.

EU Declaration of Conformity

DEUTA Controls GmbH hereby declares that the radio equipment type **AL-437-02-868 EnoSense Desk VIB / white / CE** complies with Directive 2014/53/EU. The full text of the EU Declaration of Conformity is available at the following Internet address: www.deuta-controls.de in the Service/Downloads section (Doc. EUDC2024_112).

Version 01, 11.10.2024