EFS107E · Keilton+autani

Presence sensor with PIR and ultrasonic

The EFS107E sits on the ceiling and uses infrared and ultrasonic to detect whether anyone is in the room – even very small movements. It also measures the daylight. It connects to a Keilton+autani controller, which powers it and links it to the network.



56 m²
Room size
Rooms this large are covered by one sensor, says the manufacturer.

10 × 5 m
Coverage area
At approx. 3 m mounting height, infrared and ultrasonic together.

12 V
Power supply
Comes from the connected controller.

IP20
Ingress protection
For dry indoor spaces.

BENEFITS

What the EFS107E does for you

- **Detects small movements too**
  Two detection methods combined give reliable presence detection.
- **Fewer false switching events**
  The AlgoH algorithm reduces false triggers.
- **Daylight is put to use**
  Light measurement allows daylight-dependent control of the luminaires.

AT A GLANCE

What's inside

Detects	**movement, ultrasonic, daylight**
Wireless	**via the controller**
Controller	**PPA104S or PPA102S**
Connection	**eco port with RTP converter**
Diameter	**approx. 115 mm**

IN THE SYSTEM

How the EFS107E fits in

EFS107E
on the ceiling, detects presence and light
→
Controller
PPA104S or PPA102S powers and switches
→
Bluetooth mesh
controllers network wirelessly
→
AU-Manager
Analysis, schedules, remote access

Occupancy passes via the controller into the AU-Manager – for example to analyse meeting room use.

A GOOD FIT IF …

- ✓ Offices, meeting rooms and classrooms up to 56 m²
- ✓ Rooms with a Keilton+autani controller (eco port)
- ✓ Dry indoor spaces

DIFFERENT REQUIREMENT?

Wireless retrofit, battery-powered	**BCS107**
Sensor directly in the luminaire	**IFS105SE / IFS108**
Microwave, concealed in the luminaire	**MWS105E**
Halls and high ceilings	**EFS104 / EFS106**

Building Robotics Europe
Zum Frischemarkt 4 · 04158 Leipzig · Germany

Planning and installation: info@buildingrobotics.de · +49 30 4397929208 · buildingrobotics.de/en/sensors/efs107e/
Manufacturer data (Keilton+autani), as of November 2026. Subject to technical changes.

Technical data

DETECTION		
Sensing	**PIR + ultrasonic + daylight**	Two methods for presence, plus light level.
Coverage area	**Up to 56 m²**	Room size covered by one sensor.
Coverage (diagram)	**10 × 5 m at approx. 3 m mounting height (PIR + ultrasonic)**	Covered area per the manufacturer's diagram.

CONNECTION AND NETWORKING		
Input voltage	**12 V DC**	Comes from the connected controller.
Wireless	**No radio module of its own (eco sensor, connected via controller)**	The controller handles the wireless link.
Compatible controllers	**PPA104S.B1, PPA104S-D.B1, PPA102S.F1**	It runs with one of these controllers.
Connection	**PH2.0; RTP converter to RJ45 eco port**	The RTP converter links sensor and eco port.

ENVIRONMENT AND HOUSING		
Temperature range	**–30 °C to 55 °C**	Wide range, also for unheated rooms.
Ingress protection	**IP20**	For dry indoor spaces.
Housing	**Flame-retardant plastic (class V-0), white**	
Dimensions	**Ø 115 mm**	Diameter of the round housing.
Standards	**CE, RoHS (EU Directive 2011/65/EU)**	CE-marked for the EU market, no restricted substances.

INSTALLATION

Connected to the controller

Fix
Fix the sensor to the ceiling, housing approx. 115 mm.

Connect
Connect to the eco port via the RTP converter and cable.

Switch on
The controller supplies the sensor with 12 V.

Pair
Add the controller in the app and assign it to a group.

ORDERING

Items and accessories

EFS107E.A0	12 V dual-tech ceiling sensor
RTP	Converter, RJ45 to PH2.0

FREQUENTLY ASKED QUESTIONS

Does the EFS107E have its own Bluetooth module?
No. According to the manufacturer, it is an eco sensor without its own radio technology. It is connected to a Keilton+autani controller with an eco port, which supplies it with 12 V and handles Bluetooth communication.

Which controllers do I need for the EFS107E?
According to the manufacturer's datasheet, PPA104S.B1, PPA104S-D.B1 or PPA102S.F1. The RTP converter is required for connection to the RJ45 eco port.

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