EFS106 · Keilton+autani

High-bay sensor for halls and warehouses

The EFS106 sits directly on the high-bay luminaire. It detects whether anyone is moving below it and measures how much daylight is available. If nobody is there or it is bright enough, it dims the luminaire or switches it off. So light is only on where it is needed.



6–12 m
Mounting height
For typical warehouse, storage and sports hall ceilings.

up to 24 m
Detection range
Diameter of the area in which movement is detected, at 12 m height.

12 V
Power supply
Comes straight from the luminaire – no extra cable needed.

IP40
Ingress protection
For dry indoor spaces. For outdoor or damp areas: EFS106W.

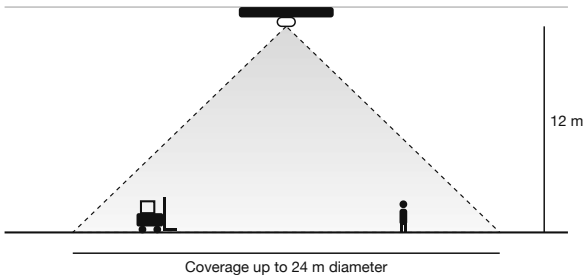
BENEFITS

What the EFS106 does for you

- **Light only when needed**
  Aisles and hall areas without people are dimmed down or switched off.
- **Daylight is put to use**
  When enough light comes through windows or roof lights, the sensor turns the luminaire down.
- **Data for monitoring and reporting**
  Occupancy and operating hours flow into the AU-Manager – the basis for energy reports.

COVERAGE

How far the sensor sees



Side view at 12 m mounting height. We plan the right lens with you.

IN THE SYSTEM

How the EFS106 fits in

EFS106
on the luminaire, detects movement and light

→

Bluetooth mesh
Luminaires and sensors network wirelessly

→

CR05
Gateway connects the zone

→

AU-Manager
Analysis, schedules, remote access

In the AU-Manager you see occupancy, switching and dimming status per zone – ready for energy reports.

A GOOD FIT IF …

- ✓ Halls, warehouses and sports halls 6 to 12 m high
- ✓ LED luminaires with 0-10 V driver and 12 V AUX
- ✓ Dry indoor spaces, including unheated ones

DIFFERENT REQUIREMENT?

Outdoor, damp areas, cold stores	**EFS106W (IP66)**
Mains voltage instead of 12 V, up to 15 m	**EFS104**
Offices and corridors up to 5.5 m	**IFS105SE / IFS108**
Luminaires with DALI drivers	**please ask**

Building Robotics Europe
Zum Frischemarkt 4 · 04158 Leipzig · Germany

Planning and installation: info@buildingrobotics.de · +49 30 4397929208 · buildingrobotics.de/en/sensors/efs106/
Manufacturer data (Keilton+autani), as of November 2026. Subject to technical changes.

Technical data

ELECTRICAL		
Input voltage	**12 V DC**	The sensor is powered by the luminaire's LED driver.
Power consumption	**max. 50 mA, 0.6 W**	The sensor's own consumption – negligible.
Dimming output	**0-10 V (Class 2), max. 10 mA**	How the sensor controls the luminaire's brightness.
Driver requirement	**Dim-to-off LED driver with 12 V AUX output**	Key requirement – please check on the luminaire.

DETECTION		
Sensing	**PIR + daylight**	PIR detects people and vehicles moving, plus light level.
Mounting height	**6–12 m (20–40 ft)**	Distance between sensor and floor.
Detection range	**12–24 m (40–80 ft)**	Diameter of the area in which movement is detected.

NETWORKING		
Wireless	**Bluetooth 5.0 (BLE up to 100 m), 2.4 GHz**	Wireless networking, no control cables.
Commissioning	**Reset 3 s (blue LED flashes), then via the Keilton+autani app**	Set up with a smartphone app, no programming device.

ENVIRONMENT AND HOUSING		
Temperature range	**–30 °C to 55 °C**	Also suitable for unheated halls and warehouses.
Ingress protection	**IP40**	Protected against solid objects, not against water.
Housing	**Flame-retardant plastic (class 5VA), white**	
Installation	**SC01 in 1/2-inch knockout; side mounting with SC03**	Standard knockout, as used for cable glands.
Standards	**CE, RoHS (EU Directive 2011/65/EU)**	CE-marked for the EU market, no restricted substances.

INSTALLATION

Fitted to the luminaire in minutes

Drill

1/2-inch knockout in the luminaire housing, insert SC01 socket.

Insert

Plug in the sensor and screw it tight, gasket on the outside.

Fit lens

Click the lens for your height into place clockwise.

Pair

Hold reset for 3 s, assign the sensor to a group in the app.

ORDERING

Items and accessories

EFS106.AUX	High-bay sensor
HBL3–2	Lens for great mounting heights
SC01	Connection socket, 3.5 mm
SC03	Connector, 3.5 mm

FREQUENTLY ASKED QUESTIONS

Which LED drivers do I need for the EFS106?

A dimmable driver with dim-to-off function, 0-10 V dimming input and 12 V auxiliary output (AUX). The sensor is powered via this AUX output and outputs the dimming signal via 0-10 V.

Does the EFS106 work with DALI drivers?

No, not directly. According to the manufacturer's datasheet, the EFS106 dims via 0-10 V. The Keilton+autani range includes a separate Bluetooth DALI controller; we clarify within the project whether it suits your luminaires.

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