EFS104 · Keilton+autani

# Mains-powered sensor for high halls

The EFS104 is a sensor and luminaire controller in one. It connects directly to mains voltage, detects movement, measures daylight and switches or dims the high-bay luminaire. This makes it suitable for luminaires whose driver has no 12 V auxiliary output.



**6–15 m**
**Mounting height**
Also for high halls and high-bay warehouses.

**up to 30 m**
**Detection range**
Diameter of the covered area at 15 m height (HBL3-2 lens).

**6 A**
**Relay**
Switches the luminaire off fully – around 1,400 W at 230 V.

**120–277 V**
**Power supply**
Straight from the mains – no auxiliary output needed.

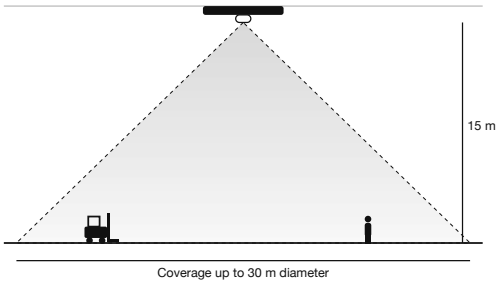
BENEFITS

## What the EFS104 does for you

- **Light only when needed**
  Empty aisles are dimmed or switched off; the AlgoH2 algorithm avoids false triggers.
- **Daylight is put to use**
  The daylight signal enables daylight-dependent control of the luminaire.
- **Data for monitoring**
  Occupancy and operating hours flow into the AU-Manager – the basis for energy reports.

COVERAGE

## How far the sensor sees




Side view at 15 m mounting height. We plan the right lens with you.

IN THE SYSTEM

## How the EFS104 fits in

**EFS104**
on the luminaire, switches and dims
→
**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 and high-bay warehouses 6 to 15 m high
- ✓ Luminaires without a 12 V auxiliary output
- ✓ Dry indoor spaces, including unheated ones

DIFFERENT REQUIREMENT?

| | |
|---|---|
| Driver with 12 V AUX output | **EFS106** |
| Outdoor, damp areas, cold stores | **EFS106W (IP66)** |
| Offices and corridors up to 6 m | **IFS105SE / IFS108** |
| Luminaires with DALI drivers | **please ask** |

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Planning and installation: info@buildingrobotics.de · +49 30 4397929208 · buildingrobotics.de/en/sensors/efs104/
Manufacturer data (Keilton+autani), as of November 2026. Subject to technical changes.

# Technical data

| ELECTRICAL | | |
|---|---|---|
| Input voltage | **120–277 V AC** | Own power supply – connects directly to mains. |
| Switching capacity | **Relay max. 6 A (approx. 1,400 W at 230 V) + 0-10 V** | The load the sensor can switch itself. |

| DETECTION AND WIRELESS | | |
|---|---|---|
| Sensing | **PIR + daylight** | PIR detects movement, plus light level. |
| Mounting height | **6–15 m (20–50 ft)** | Distance between sensor and floor. |
| Detection range | **12–30 m (40–100 ft)** | Diameter of the area in which movement is detected. |
| Lenses (required, separate) | **HBL1-2: Ø 24 m at 12 m height · HBL3-2: Ø 30 m at 15 m height** | A lens is always needed – chosen by height. |
| Wireless | **Bluetooth 5.0 (BLE up to 100 m), 2.4 GHz** | Wireless networking, no control cables. |

| INSTALLATION AND ENVIRONMENT | | |
|---|---|---|
| Installation | **1/2-inch knockout in the luminaire housing; EJ30/EJ50 extension** | Standard knockout, extension for recessed points. |
| Commissioning | **Reset 3 s (blue LED flashes), then via the Keilton+autani app** | Set up with a smartphone app, no programming device. |
| 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** | |
| Standards | **CE, RoHS (EU Directive 2011/65/EU)** | CE-marked for the EU market, no restricted substances. |

INSTALLATION

## Directly on the high-bay luminaire

**Screw in**
Screw into a 1/2-inch knockout, gasket on the outside.

**Connect**
Connect mains, load and 0-10 V – by a qualified electrician.

**Fit lens**
Order the HBL1-2 or HBL3-2 lens separately and fit it.

**Pair**
Hold reset for 3 s until the blue LED flashes, then assign in the app.

ORDERING

## Items and accessories

| | |
|---|---|
| EFS104.B1 | High-bay sensor |
| HBL3–2 | Lens for great heights (Ø 30 m coverage at 15 m) |
| HBL1–2 | Lens (Ø 24 m coverage at 12 m) |

FREQUENTLY ASKED QUESTIONS

**When do I use the EFS104 instead of the EFS106?**
When the LED driver of the high-bay luminaire has no 12 V auxiliary output (AUX). The EFS104 has its own power supply for 120–277 V AC, switches the load via a relay and dims via 0-10 V. The EFS106, by contrast, requires a dim-to-off driver with a 12 V AUX output.

**Is a lens included?**
No. According to the manufacturer's datasheet, an HBL1 or HBL3 lens is required and must be ordered separately. The HBL1-2 covers approx. 24 m in diameter at approx. 12 m mounting height, the HBL3-2 approx. 30 m at approx. 15 m.

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