EFS106W · Keilton+autani

Rugged sensor for outdoor and damp areas

The EFS106W sits directly on the luminaire and detects whether anyone is moving below it. If nobody is there, it dims the luminaire or switches it off. Its black, weatherproof housing is made for outdoor areas, damp locations and cold stores.



6–12 m
Mounting height
For halls, loading docks and outdoor luminaires at this height.

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

IP66
Ingress protection
Designed for outdoor use and damp environments.

up to 100 m
Wireless range
Long-range antenna – metal and buildings reduce the range.

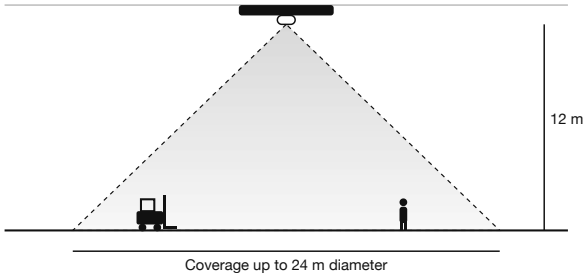
BENEFITS

What the EFS106W does for you

- **Light only when needed**
  Areas without people or vehicles are dimmed down or switched off.
- **Built for weather and damp**
  One-piece, UV-resistant nylon housing for car parks, loading docks and car washes.
- **Data for monitoring**
  Occupancy, switching and dimming status of each luminaire flow into the AU-Manager.

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 EFS106W fits in

EFS106W
on the luminaire, detects movement
→
Bluetooth mesh
Luminaires and sensors network wirelessly
→
CR05
Gateway connects the zone
→
AU-Manager
Analysis, schedules, remote access

In the AU-Manager you see when areas are actually used and how long luminaires run at a dimmed level.

A GOOD FIT IF …

- ✓ Outdoor areas, car parks and loading docks
- ✓ Damp locations, cold stores and car washes
- ✓ LED luminaires with 0-10 V driver and 12 V AUX

DIFFERENT REQUIREMENT?

Indoor, with daylight harvesting	**EFS106 (IP40)**
Mains voltage instead of 12 V, up to 15 m	**EFS104**
Switching by dusk and time of day	**CR02**
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/efs106w/
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 AND WIRELESS		
Sensing	**PIR + photocell (Hold ON/OFF, no daylight control)**	PIR detects people and vehicles moving.
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.
Wireless	**Bluetooth 5.0 (BLE up to 100 m), 2.4 GHz**	Wireless networking, no control cables.

ENVIRONMENT AND HOUSING		
Temperature range	**–30 °C to 55 °C**	Also suitable for cold stores and outdoor sites.
Ingress protection	**IP66**	Dust-tight and protected against water jets.
Housing	**Flame-retardant plastic (class 5VA), black, UV-resistant**	
Installation	**WSC01 in 1/2-inch knockout; side mounting with WSC03**	Weatherproof socket in a standard knockout.
Standards	**CE, RoHS (EU Directive 2011/65/EU)**	CE-marked for the EU market, no restricted substances.

INSTALLATION

Weatherproof on the luminaire

Drill

1/2-inch knockout in the luminaire housing, insert WSC01 socket.

Insert

Plug in the sensor and screw it tight; side mounting with WSC03.

Fit lens

Fit the WHBL1 lens; the lenses are interchangeable.

Pair

Hold reset 3 s until the indicator flashes blue, then assign in the app.

ORDERING

Items and accessories

EFS106W.AUX	High-bay sensor, rugged
WHBL1	Lens
WSC01	Connection socket, 3.5 mm, for EFS106W
WSC03	Connector, 3.5 mm

FREQUENTLY ASKED QUESTIONS

Can the EFS106W dim according to daylight?

No. According to the manufacturer's datasheet, its photocell only switches on or off at the set threshold (Hold ON/OFF) and does not perform daylight control. The EFS106 is intended for daylight harvesting indoors.

Is the EFS106W suitable for outdoor use?

Yes. It has IP66 ingress protection and a UV-resistant nylon housing and, according to the manufacturer, is designed for outdoor applications and damp environments.

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