

Press release – ESYLUX outdoor lighting

Energy efficient and exceptionally robust: new AFL SUN LED floodlights with in-built motion detector

Ahrensburg, Germany, 17 January 2017. ESYLUX has introduced new designs for its SUN LED floodlights with in-built sensor technology for detecting movement and measuring light. This provides the user with a lighting solution that is as durable as it is intelligent, able to automatically illuminate façades, car parks and other outdoor areas to an optimal level of brightness whilst remaining energy efficient. The motion detector's adaptability to its surroundings, insofar as it can be positioned horizontally and vertically, and the ESYLUX-supplied ITD mounting bracket ensure that the unit can be used in a wide variety of situations. Where necessary, a number of lights can be used in intelligent unison.

Building owners and operators have long since begun the transition to using energy-efficient LEDs even for their external lighting needs. If corresponding lights are also controlled by motion detection and light sensor technology, this provides an even longer service life for the light source.

Long-life automation solution — also made possible thanks to zero-cross switching

This is another reason why ESYLUX has developed new variants of its SUN floodlight series, which feature an in-built motion detector. The sensor has a 160-degree field of detection with a range of 12 metres. The unit's PIR and light sensor equipment ensure that the light is only switched on automatically where movement is detected and the light level is simultaneously below the target value of 3–1000 lux. If no more movement is detected within the switch-off delay time, the sensor deactivates the lights again. "This ensures greater energy efficiency and enables the user to benefit from the LEDs for longer", explains product manager Sebastian Zimmermann, as the nominal service life of 50,000 hours (LM80B50) can only be reliably achieved when using the demand-dependent activation functionality. To protect the longevity of their own relays, the motion detectors use zero-cross switching behaviour.

Robust and user-friendly design

The motion sensor's detection field and range can be configured using the included lens mask and by switching the alignment between vertical and horizontal. The spacious connection box with its easily accessible terminals allows for convenient through-wiring if necessary. This makes the switching of numerous automatic lights in parallel possible, just like an intelligent master/slave switching system, whereby a light with in-built sensor technology is capable of activating up to nine standard devices from the series on a movement-dependent basis. The floodlights can be installed flexibly on a flat wall and on internal or external corners by means of the ITD mounting bracket supplied by ESYLUX.

The housings come in white or black and are constructed from durable die-cast aluminium. Stainless steel external screws ensure stability, meaning that nothing comes loose. With IP protection type 65, the user can count on the unit being reliably sealed; temperatures of -25°C to +40°C present no problem either. The AFL SUN floodlights are available with a power consumption of either 10, 30 or 50 watts (in two housing sizes) and light colour options of 3000 or 5000 kelvin.

Photos and captions

[Photo: AFL SUN]



Photo: ESYLUX GmbH

About ESYLUX — Performance for Simplicity

ESYLUX develops, manufactures and sells products for enhanced energy efficiency, comfort and safety for the building sector. Its focus is on sensor-based, demand-driven automation and lighting. The aim is to improve people's quality of life with both intelligent and user-friendly solutions that meet the most complex requirements yet remain easy to implement. The company – which has its headquarters near Hamburg, Germany – counts wholesalers, installation companies, electrical and lighting planners and architects among its partners. These partners place their trust in almost 50 years of market experience, high service standards and the prioritisation of German locations as sites for research, development and production. The sales organisation is global: ESYLUX operates on five continents in collaboration with 17 experienced trading partners and is represented by a total of 13 subsidiaries in Europe, Asia and Oceania.