PHILIPS

Sensors

EasySense

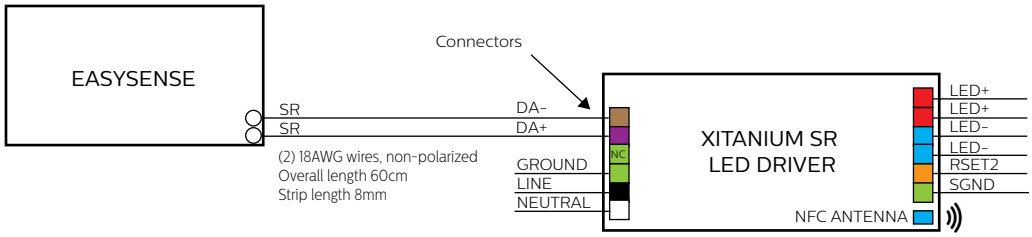
Outboard-Mount for High Bay

Philips EasySense Outboard-Mount for High Bay **Quick Installation Guide**

Philips EasySense SNH210 MC is a DLC-qualified network lighting control (NLC) solution for industrial high bay applications that connects with the Philips Advance Xitanium SR LED Drivers and works with the updated Philips field app MC.

EasySense quick guide

Wiring requirements



Note: Above depicts connecting wires from sensor to Xitanium SR drivers that include connectors. For connection to Xitanium SR drivers that include leads, use wirenuts suitable for 18AWG solid wire.

Wire to wire connection

SNH200 includes 18AWG wires, 60cm in length with 8mm strip length. A wire to wire connection can be made with connectors or wirenuts suitable for 18AWG solid wire.

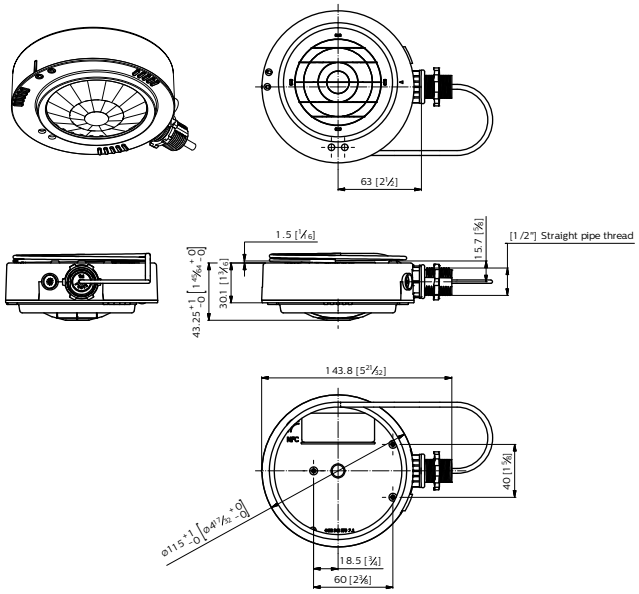
The wire strip length in case of a wire to wire connection is connector dependent.

Wire to driver connection

A connection between the sensor and the driver should be made according to local practices. The SR input wires of the EasySense for High Bay are not polarized for fixtures using one driver and one sensor, and therefore can be connected, without taking care of polarity, to the SR output of the driver – SR+ and SR- terminals. It is recommended to keep wire distance from sensor to driver less than 50 feet. Polarity must be maintained when connecting multiple drivers to one sensor.

The wire strip length in case of sensor to driver connection is ~8mm.

Sensor Dimensions, mm [in]



Mounting in a Luminaire

EasySense for High Bay is intended to be mounted to a standard ½" knockout available on the luminaire itself or a junction box. A nut is included with the sensor for this purpose. An OEM can develop custom brackets to attach to the top surface of the sensor in case the sensor needs to be mounted to a curved/non-flat surface. Mounting screws are provided with the sensor for this purpose. These screws are matched to the thickness of the plastic sensor housing and are the only screws approved for use. Also make sure that the view of the sensor is not blocked anywhere by the luminaire or the bracket to avoid loss of functionality.

SNS210 MC is commissioned using the Philips field app MC, available on both Android and iOS smartphones.

EasySense quick guide

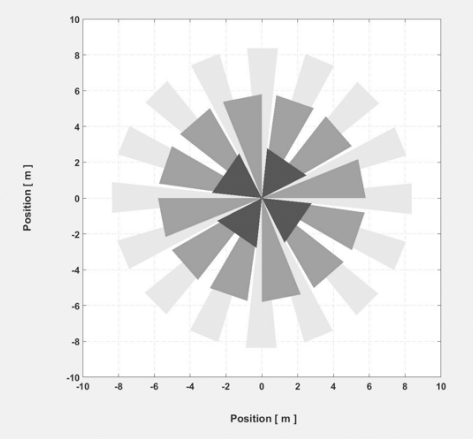
Occupancy Sensing Detection Pattern

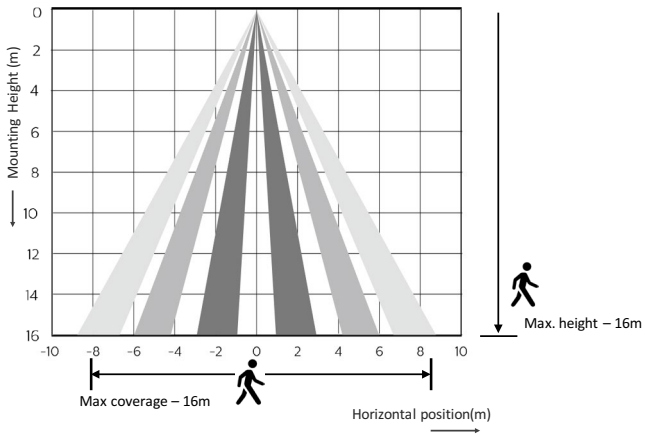
The plots below show the top and side view of the occupancy coverage based on NEMA test, an industry standard. In the side view, it is visible that coverage ration of height:diameter is 1:1. For example if the mounting height is 12m, the diameter coverage is also 12m.

Disclaimer:

1. In these plots, the white areas are blind spots and the detection is based on subject's motion. An idle subject may not continue to trigger occupancy detection once the hold time collapses.
2. As PIR based sensing works on temperature difference between the subject and the ground level, the occupancy detection could vary due to clothing and size of humans.

Special Note: Ensure heat radiating devices are outside of the monitoring cone.
Avoid drafts (e.g. from ventilators or heating systems).





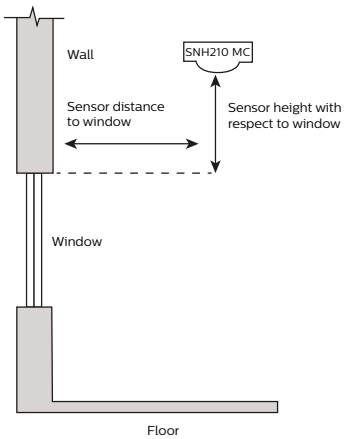
Daylight Sensor

The light sensor measures the total amount of light with an opening angle of 10 degrees whereas the PIR has an angle of 30 degrees, all calculated from normal. The following aspects should be observed during installation:

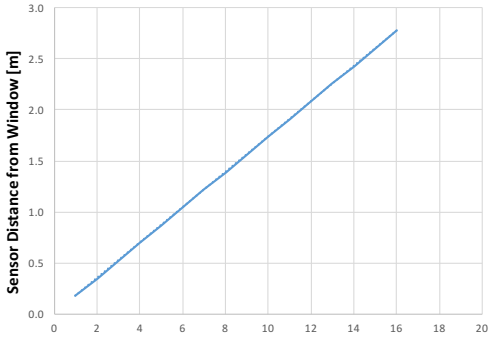
- Minimum distance from the window: see graph below
- Prevent light reflections from outside entering the sensor (for example sunlight reflection on a car bonnet) as this will lead to incorrect light regulation.

As a guideline the formula 0.174 x H can be used to calculate the minimum distance between the window and sensor whereby H is the height from the bottom of the window to the ceiling.

Photosensor spatial response



Minimum distance from window vs. mounting height



Sensor mounting height with respect to window [m]

Note: Restrictions only for daylight regulation. No restrictions for skylights.

EasySense quick guide

Configuration via Mobile App

Note: EasySense parameters can be configured via Philips field app MC which is available for both Apple and Android smart phones.

You must first download the Philips field app MC from either the Google Play store or App store, then register to receive a username and password. Refer to www.philips.com/easysense for details, including applicable phones and user manuals.

FCC and IC Statement This device complies with part 15 of the FCC rules for the United States and Industry Canada (IC) license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. Any changes or modifications not expressly approved by Philips could void the user's authority to operate this equipment. This product is intended for commercial use only.

This equipment should be installed and operated with a minimum distance of 20cm between the radiator and your body.

Déclaration De Conformité À La Fcc/Ic Ce dispositif est conforme à la partie 15 des règles de la Federal Communications Commission (FCC) des États-Unis et d'Industrie Canada (IC) exempts de licence RSS norme(s). Son fonctionnement est assujetti aux deux conditions suivantes: (1) Ce dispositif ne doit pas provoquer de brouillage préjudiciable, et (2) il doit accepter tout brouillage reçu, y compris le brouillage pouvant entraîner un mauvais fonctionnement. Tous les changements ou modifications non expressément approuvés par Philips, sont susceptibles d'annuler le droit de l'utilisateur à se servir de cet équipement. Ce produit est exclusivement destiné à un usage commercial.

Cet équipement doit être installé et utilisé avec une distance minimale de 20 cm entre le radiateur et votre corps.

Sensor part number

Commercial Product Name	Order Code
EasySense Outboard-Mount for High Bay	SNH210 MC

Compatible LED drivers

The EasySense SNH210 MC is compatible with Xitanium SR drivers. To find the SR driver that fits your needs and for product specifications, please visit **www.philips.com/xitanium/na**

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