HIR28/R
PIR Lowbay | Remote controller ON/OFF | Ceiling mounting

HYTRONIK ®
SENSORS & LIGHTING CONTROL

Benefits

Flexible: Designed for ceiling or surface mounting

Independent: On/off occupancy control for up to 800W

User-Friendly: One-key commissioning with IR controller

Applications

Remote ceiling or surface mounting (with accessory)

Offices, Classrooms

Common spaces, Corridors

Check out the complete system solution on the website:
https://hytronik.com

CE   emc   LVD   UKCA

Product description

It is a low-profile sensor designed for aesthetically demanding architectural projects. It offers high-quality, simple On/Off occupancy control or semi-automatic absence detection. An intelligent photocell prevents light switching when natural daylight is available. Setup is easy with a remote control handset, allowing one-key commissioning for multiple devices.

Hardware Features

See additional details at the end of datasheet

5-year warranty	Intelligent Photocell	ON/OFF Control	One key commissioning	User-friendly design	Zero-cross Relay Operation

Functions and Features

See additional details at the end of datasheet

Daylight Harvest

Specifications

Main Capabilities	
Dimming (Output) Interface	Relay On/Off
Connector Type	Standard 2 cables
Stand-by power	< 0.3 W

Sensor Data	
Detection angle	360°
Max. Detection range (DxH)	10 m
Maximum Mounting Height	6 m
Detection area	78 m²

Electrical Data	
Warming-up	20 s
Operating Voltage	220-240 VAC 50/60 Hz
Max withstandable in-rush current	120A@160µs
Load capacitive	400.0 VA
Load resistive	800.0 Watt

Technical	
Product weight	125.0 g
Product height	77.6 mm
Product width	78.0 mm
Mounting hole	66.0 mm
Ambient temperature	-20 ~ +50 °C
Humidity max	10 ~ 90%
IP Rate	IP20
IP Rate (facial part)	IP54

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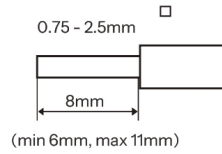
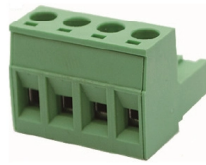**PIR Lowbay | Remote controller ON/OFF | Ceiling mounting**

Technical Drawing

62.2
74.5
81.6
⌀78

Installation Steps

1

14mm (Max.)
5mm(Min.)
Ø66 - 68mm

2

3

7-8mm
0.75 - 2.5mm²

4

5

6

Install blind as required
① A   B
②

7

8
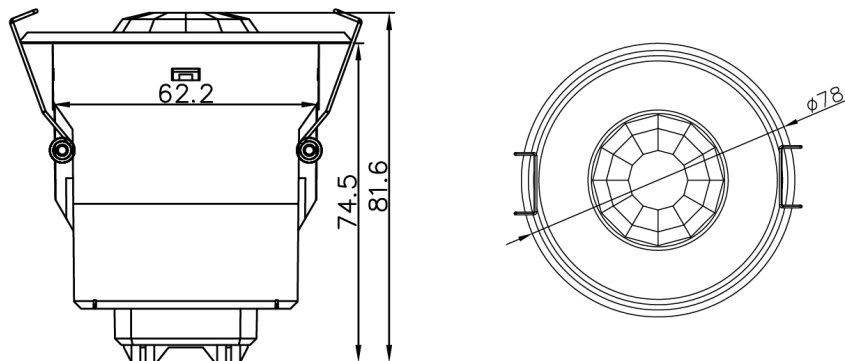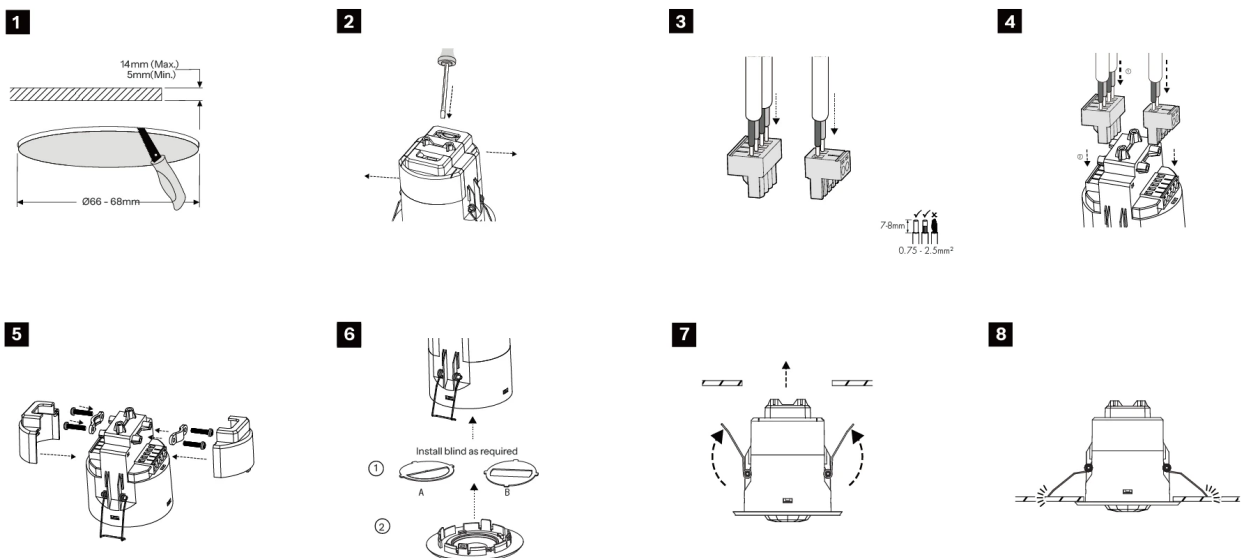
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Wire Preparation

0.75 - 2.5mm

8mm

(min 6mm, max 11mm)

Pluggable screw terminal. It is recommended to make connections to the terminal

before fitting to the sensor

Wiring Diagram

L

N

Push   L'   N   L

LED Driver

Max. 400W

LED Driver

L   N   LED+   LED−

L   N   LED+   LED−
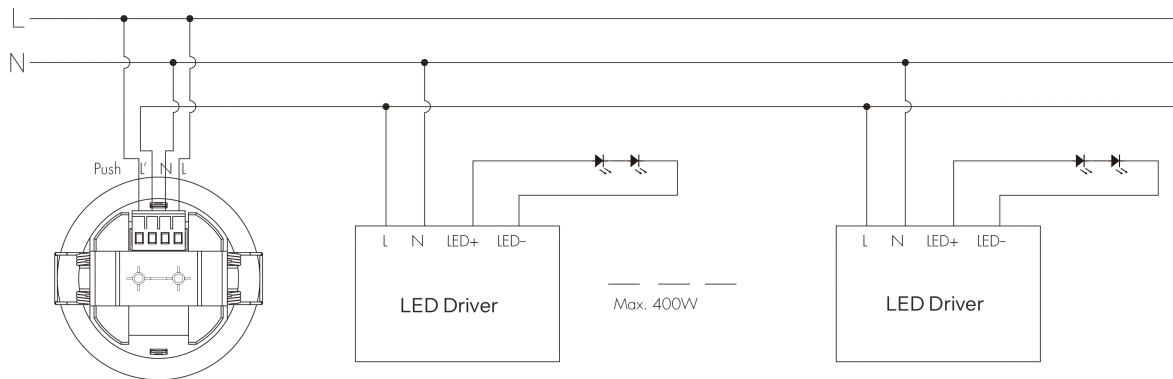
A. This product should be installed by a qualifed electrician.

B. The device retains its last operational state after a power interruption, ensuring that all settings remain unchanged when power is restored.

C. The device stores the last command applied, regardless of the input method, with the most recent setting overriding any previous ones and being saved in the MCU memory. For example, if the hold-time is set to 5s via dip-switch, then changed to 10s with the remote controller, the 10S setting will be stored in memory.
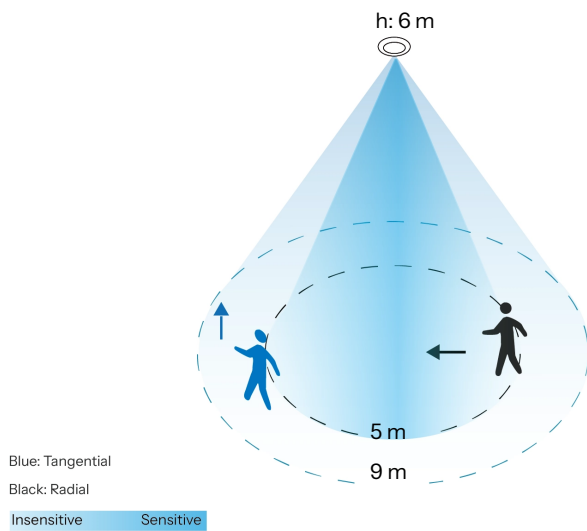
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Detection Range

Person

Mounting Height: 2.5 m - 6 m

h: 6 m

5 m

9 m

Blue: Tangential

Black: Radial

Insensitive | Sensitive

Tangential					
H[m]	2.5	3	4	5	6
Ø[m]	10	10	9	8	8

Radial					
H[m]	2.5	3	4	5	6
Ø[m]	5	5	5	5	5

The data below is tested under following conditions:

· Single person walking

· Sensor not connected to any driver that may have soft-on period

· The testing is conducted in an open and spacious indoor field, without noticeable obstacles or influences that may affect PIR performances.

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Options

Included Accessories

	High Back Caps HA08 and HA08/S	Allows cables to exit upward or sideways.
	Blind Insert Option 1 and Option 2	Blind insert for blocking certain detection angles.

Compatible Products

	Metal Mount Box | Surface Mounting | Gray Color	HA09/G	Link not yet
	Metal Mount Box | Surface Mounting | Black Color	HA09/B	Link not yet
	Metal Mount Box | Surface Mounting | White Color	HA09/W	Link not yet

Functions and Features

Daylight Harvest

Right time, right place and the right amount of light! Daylight harvest (Also known as daylight regulating or daylight interaction) is a must in the future lighting norms. The daylight sensor measures the available surrounding natural light and calculates how much artificial light is needed to reach the target lux level. The control output is passed to the drivers by DALI or 0/1-10V signals which then deliver the needed amount of light .

Intelligent Photocell

The built-in photocell will also automatically turn off the light when the ambient natural light exceeds the programmed lux level for more than 5min, regardless of whether motion is detected or not.

ON/OFF Control

This sensor is a motion switch, which turns on the light upon detection of motion, and turns off after a pre-selected hold-time when there is no movement. A daylight sensor is also built in to prevent the light from switching on when there is sufficient natural light.

Zero-cross Relay Operation

Designed in the software, sensor switches on/off the load right at the zero-cross point, to ensure that the in-rush current is minimised, enabling the maximum lifetime of the relay.

Check out for further explanation of features

https://hytronik.com