Installation and Instruction Manual



Flush Mount Pir Motion Sensor, Ultra High-bay

HIR28/UH

On/off relay control

1. Technical Specifications

Mains voltage	220~240VAC 50/60Hz
Stand-by power	<0.3W
Load ratings:	
Capacitive	400VA
Resistive	800W
Warming-up	20s
Sensor principle	PIR detection
Detection range (Max.)*	Installation Height: 21m
HIR28/UH	Detection Range(Ø):28m
Detection angle	360°
Operation temperature	Ta: -20°C ~ +50°C
IP rating	IP20 / IP54

3. Functions

3.1 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 and stand-by 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

3.2 Lux Off Function

The built-in daylight sensor can measure ambient natural light and switch off the fixture automatically whenever artificial light is not required (natural light lux level exceeds daylight threshold).

3.3 Manual Override

With the help of push-switch, this sensor can be over-ridden by the end-user to manually switch on/off the light, which makes the product more user-friendly and offers more options to fit some extra-ordinary demands

- * Short Push (<1s): on/off function:
- On → Off: the light turns off immediately and cannot be triggered ON by motion until the expiration of pre-set hold-time. After this period, the sensor goes back to normal sensor mode. ${
 m Off}
 ightarrow {
 m On:}$ the light turns on and goes to sensor mode, no matter if ambient Lux level exceeds the
- daylight threshold or not

Note: if end-user do not want this manual override function, just leave the "push" terminal unconnected to any wire

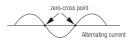
3.4 Semi-auto Mode (Absence Detection)

It is easy to forget to switch off the light, in office, corridor, even at home, And in many other cases, people do not want to have a sensor to switch on the light automatically, for example, when people just quickly pass-by, there is no need to have the light on. The solution is to apply this "absence detector": motion sensor is employed, but only activated on the manual press of the push-switch, the light keeps being ON in the presence, and switches off in the long absence,

Note: end-user can choose either function 3.3 or function 3.4 for application. Default function is manual override.

3.5 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



Wire Preparation



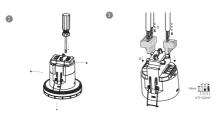


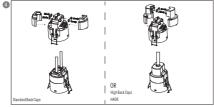
Pluggable screw terminal. It is recommended to make connections to the terminal before fitting to the sensor

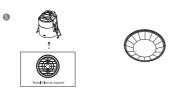
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2. Installation











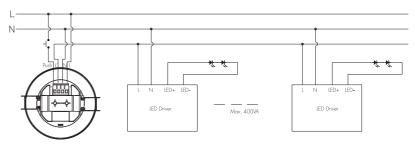






- 1, Ceiling (drill hole $\phi66\sim68$ mm)
- 2. Carefully prise off the cable clamps
- 3. Make connections to the pluggable terminal blocks.
- 4. Secure the cables with screws for better stability (provide high back caps HA08 option) 5. Fit detection blind (if required) and desired lens.
- 6. Clin fascia to body
- 7. Bend back springs and insert into ceiling.

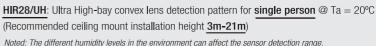
4. Wiring Diagram

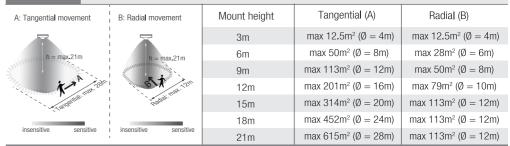


-This product should be installed by a qualified electrician.

5. Detection Pattern & Optional Accessories

HIR28/UH (Ultra High-bay)





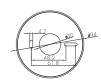
Optional Accessory --- Ceiling/Surface Metal Mount Box: HA09/W, HA09/B, HA09/G



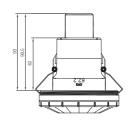
















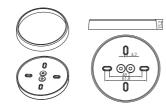
*Note: Optional Accessory HA09 & HA08 can not be uesd together.



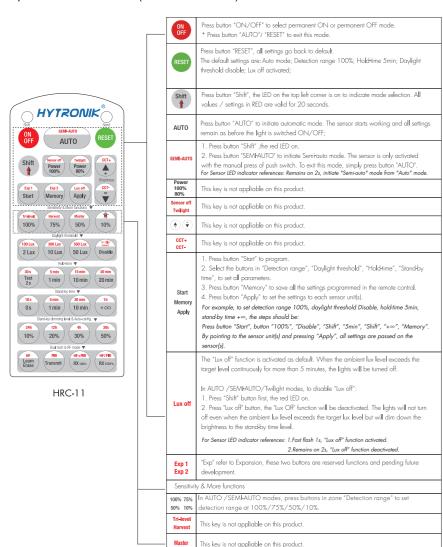
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Big silicon gasket used to make IP54 degree protection (mounted into HA09 housing for ceiling mount)



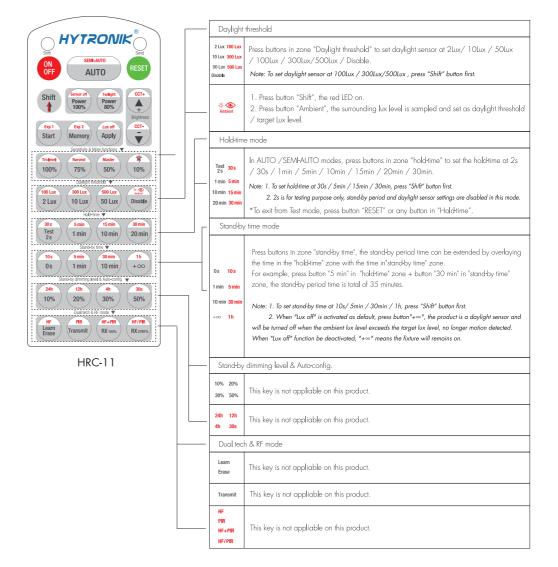
6. Description of the Button Functions (remote control HRC-11)





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7. Additional Information / Documents

- 1. Regarding precautions for PIR sensor installation and operation, please kindly refer to www.hytronik.com/download ->knowledge ->PIR Sensors Precautions for Product Installation and Operation
- 2. Regarding Hytronik standard guarantee policy, please refer to www.hytronik.com/download ->knowledge ->Hytronik Standard Guarantee Policy



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