# **Installation and Instruction Manual**



# **FLUSH MOUNT PIR MOTION SENSOR**

# HIR28DCVFC

On/Off control with relay output

## 1. Technical Specifications

Input	12-36VDC
Stand-by power	<0.5W
Output (Loading)	24VDC≤5A 250VAC≤5A
Warming-up	10s
Sensor Model	PIR detection
Detection range (Max.)* HIR28DCVFC	Installation Height : 6m Detection Range(Ø) : 9m
Sensitivity	10%/50%/75%/100%
Detection angle	360°
Operation temperature	Ta: -20°C ~ +50°C
IP rating	IP20/IP54

<sup>\*</sup> For more details of detection range, please refer to "detection pattern" section.

### 2. Functions

#### 2.1 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 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.

### 2.2 Intelligent Photocell (daylight detection prior to motion detection)

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.

### Wire Preparation

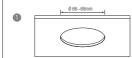


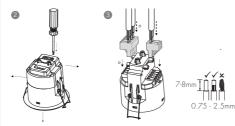


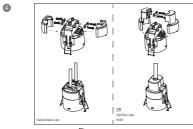
Pluggable screw terminal. It is recommended to make connections to the terminal before fitting to the sensor.

### 3. Installation

Mechanical Structure & Dimensions









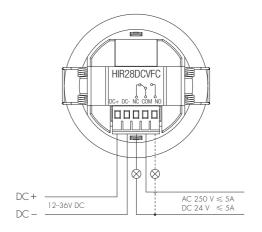






- 1. Ceiling (drill hole Ø 66~68mm).
- 2. Carefully prise off the Back Caps.
- Make connections to the pluggable terminal blocks.
- 4. Secure the cables with screws for better stability (provide high back caps HA08 option)
- 5. Fit detection blind (if required) and desired lens.
- 6. Fit desired lens, clip fascia to body.
- 7. Bend back springs and Insert into ceiling

## 4. Wiring Diagram



----This product should be installed by a qualified electrician.

### 5. Description of the Button Functions (remote control HRC-12)

#### Permanent ON/OFF function

Press button "ON/OFF" to select permanent ON or permanent OFF mode.

\* Press button "AUTO", "RESET" or "Ambient" to quit this mode. The mode will change to AUTO Mode after power failure.

### Reset Settings

Press button "RESET", all settings go back to default values as below: Detection range: 100%; Hold-time: 5min; Lux disabled

#### Sensor mod

Press "Auto Mode" button, the sensor starts to function and all settings remain the same as the latest status before the light is switched on/off.

#### SEMI-AUTO mode

This button is disabled

### Daylight threshold

Press buttons in zone " Daylight threshold" to set daylight sensor at 2Lux/10Lux / 50Lux / 100Lux / 300Lux / 500Lux / Disable.

#### Ambient daylight threshold

Press button "Ambient", the surrounding lux level is sampled and set as the new daylight threshold.

#### Hold-time

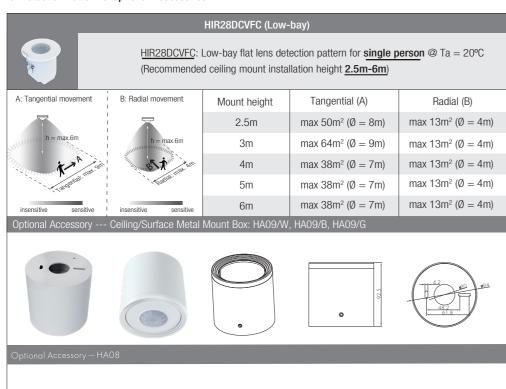
Press buttons in zone "hold-time" to set the hold-time at 5sec / 1min / 5min / 10min / 15min / 30min / 60min.

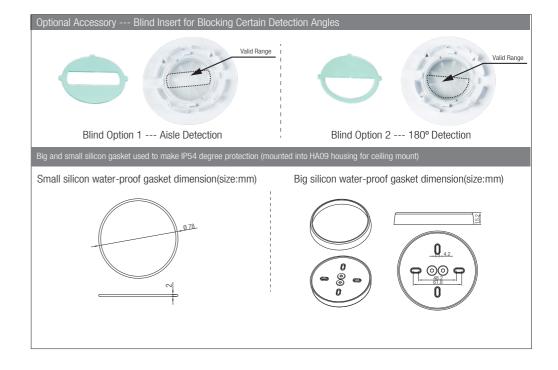


HRC-12



### 6. Detection Pattern & Optional Accessories





### 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

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

