Flush Mount PIR Motion Sensor PIR

HIR28DCVFC HIR28DCVFC/R HIR28DCVFC/W HIR28DCVFC/H Low-bay Reinforced Low-bay Wide range Low-bay High-bay

Applications

Office, classroom and commercial interior spaces where on/off control is required.

- Office / Commercial Lighting
- Classrooms
- Stairwells / Corridors

HIR28DCVFC with on/off relay control

HIR28DCVFC is a PIR standalone motion sensor, On/Off control with relay output.It's voltage-free contact which is NO relay (normally on). Designed with a low profile for aesthetically demanding architectural projects providing a high quality sensor for simple on/off occupancy control or providing semi-automatic (absence detection) control.

An intelligent photocell is also included to prevent switching of the lights when natural daylight is available.

Set-up of the sensor is carried out using a remote control handset with program memory allowing one-key commissioning where common settings are used for multiple devices.

Features

- On/Off control with ralay output
- ♪ Freely select NO or NC contact

VFC: Volt-free Contact/Dry Contact - 24VDC@5A - 250VAC@5A

- J IP20/IP54 Ceiling/Surface mount box available as accessory
- Warious PIR lens and blind inserts options
- User-friendly design for installation
- High bay version available (up to 15m in height)
- | Store settings in the remote for easy commissioning when programming multiple sensors.
- Intelligent photocell lights and sensors only operate when needed, natural light has proirity.

🕑 5-year warranty

Technical Data

Input Characteristics

Model No.	HIR28DCVFC
Input	12-48VDC
Stand-by power	<0.5W
Output (Loading)	24VDC≤5A 250VAC≤5A
Warming-up	10s
Safety and EMC	
EMC standard (EMC)	EN61547
Safety standard (LVD)	EN60669-1, EN60669-2-1
Certification	CB, CE , LVD, RCM
Environment	
Operation temperature	Ta: -20°C ~ +50°C
IP rating	IP20

Sensor Data

Model No.	HIR28DCVFC
Sensor Model	PIR detection
Detection range (Max.)* HIR28DCVFC	Installation Height : 6m Detection Range(Ø) :9m
Detection range (Max.)* HIR28DCVFC/R	Installation Height : 6m Detection Range(Ø) : 10m
Detection range (Max.)* HIR28DCVFC/W	Installation Height : 6m Detection Range(Ø) : 18m
Detection range (Max.)* HIR28DCVFC/H	Installation height: 15m (forklift) 12m (person) Detection range (Ø): 24m
Detection angle	360°
For more details of detection r	ango, plagao refer to "detection pattern" costia

* For more details of detection range, please refer to "detection pattern" section.

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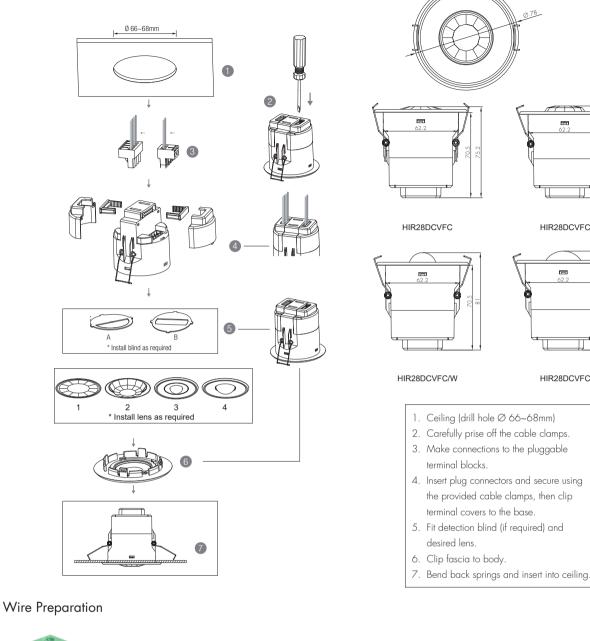


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HIR28DCVFC/W

HIR28DCVFC/H

Mechanical Structure & Dimensions



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

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HIR28DCVFC/R

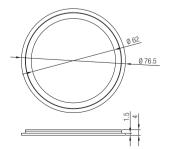
HIR28DCVFC/H

Big and small silicon gasket used to make IP54 degree protection when HIR28DCVFC series device mounted into HA03 housing for ceiling mount

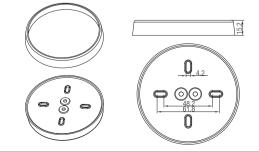
Small silicon water-proof gasket dimension(size:mm)

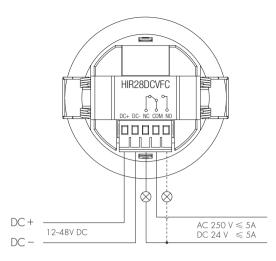
0.75 - 2.5mm[□]

8mm (min 6mm, max 11mm)

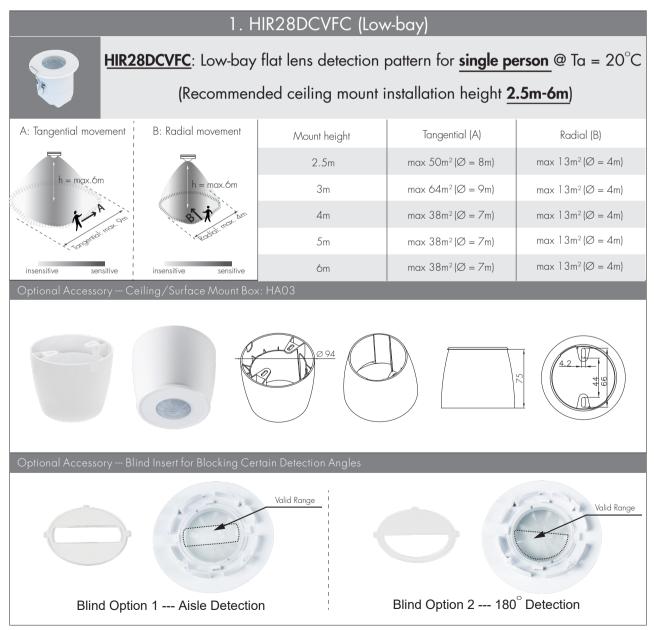


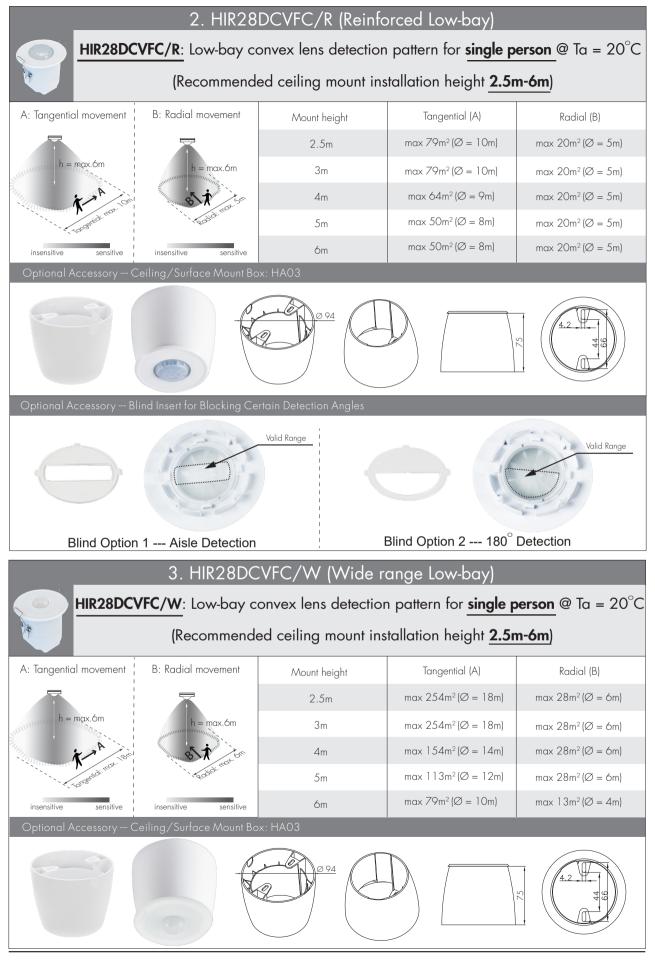
Big silicon water-proof gasket dimension(size:mm)





Detection Pattern & Optional Accessories







Functions and Features

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 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.



With sufficient natural light, the light does not switch on when presence is detected.



With insufficient natural light, the sensor switches on the light automatically when presence is detected.



The sensor switches off the light when natural light is sufficient, even with presence.

Settings (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 mode

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.

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