

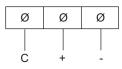
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Surfceiling Detector

Description:

This type of ceiling detector has an open collector output. The benefit of this type of outputs is the extreme low power consumption. The power consumption is 9 mA (6,5 mA when the LED is not used).

Connection:



- + :+12Vdc
- : Ground
- C : to input of keypad, CIS, LVOS, DIN Dimmer

Specifications:

OPTICAL

Detection Pattern: A virtually conical pattern of maximum 10.5 m (36 ft) diameter, when installed on a 3.6 m (12 ft) ceiling.

COVERAGE PATTERNS

The Surfceiling pattern is nearly conical (viewed from detector to the floor): see Figure 1.

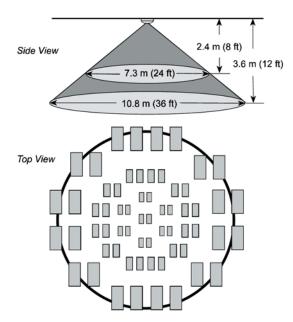


Figure 1: Coverage Pattern

The maximum mounting height is 3.6 m (12 ft). The coverage pattern at floor level is as per the following table:

Mounting Height (m)	Pulse
2.4 3	7.3 m Ø 9 m Ø
3.6	10.8 m Ø

ELECTRICAL

Voltage: 12 VDC Current: 7,5 mA standby, 9 mA active (LED ON), 6,5 mA active (LED OFF) Output: Open collector output

MOUNTING

Ceiling Mounting: Maximum mounting height 3.6 m (12 ft)

ENVIRONMENTAL

Operating Temperature: -10°C to 49°C (14°F tp 120°F) **Storage Temperature:** -20°C to 60°C (-4°F to 140°F)

PHYSICAL

Dimensions (Ø x h): 8,6 x 2,4 cm Weight: 50 gr Color: White

Installation:

The Surfceiling is installed on the ceiling. The maximum installation height is 3.6 m (12 ft).

A. Mount the unit so that the expected motion of a person is perpendicular to the detector and not into the detector. Be sure to install the detector on a stable ceiling, to avoid vibrations.

Note: Passive infrared detectors are sensitive to changes in infrared energy caused by an object moving across the unit's field of view. Detection of changes in infrared energy depends on the amount of infrared energy transmitted by the moving object, and the temperature difference between the object and the background. Because of this the Surfceiling may fail to respond under certain temperature and background conditions, in which the temperature difference is too small.

B. To minimize possible false triggering, it's highly recommended that you avoid aiming the detector at heaters, sources of light, or windows subjected to direct sunlight. Avoid mounting the Surfceilling in locations where air drafts could flow from the ceiling or from close walls. Also avoid running wires close to high power electrical cables.

C. Hold the unit base as shown in Figure 2. Rotate the cover counter clockwise until it stops. Separate the cover from the base.

Note: If the cover does not separate easily from the base, insert a 1/8" screwdriver between a tab (on the cover) and a slot (on the base). Lower the screwdriver handle until the base separates from the cover and removes easily.

D. Mount the base (equipped with the printed circuit board) in the location selected for optimum coverage. Using the two mounting holes at the back of the base fasten the unit firmly to the mounting surface

to avoid possible vibrations (see Figure 3). Line up the 3 tabs on the cover with the 3 slots on the base. Fit the cover over the base. Rotate the cover clockwise until it stops.





Figure 2: Removing the cover

Figure 3: Installing the cover

Integration:

There are different possibilities to connect a motion sensor to the Vantage system (STIDEW101, DIN-EDS, Keypad, LVOS)

Attention!

The contact must go to the same station where it gets its power supply. It is not possible with this type of detector (open collector output) to put more than one detector (in serie or in parallel) on the same input.

1. For Qlink:

Select on the STIDEW101 (Contact Input Station), DIN-EDS (DIN Dimmer) & LVOS (Low Voltage Output Station) on the auxiliary inputs "dry contact". <u>Remark:</u> for the DIN dimmer you need to go to wiring view to see the inputs.

Pay attention: you have to program the switch polarity for the motion sensor "Reverse" or "Normally Closed".

On the external input of a keypad station (auxiliary connector):

Create in the "STATION DEFINITION" on the "EXTERNAL CONNEC-TOR", a DRY CONTACT as external input for the motion sensor.

External Dry Contact Definition 🛛 🔀
Name:
Surfceiling motion sensor
Switch Polarity
O N.0./ Normal O N.C./ Reverse
🗖 Default
Switch Hold on Time
☑ Default 0.0 seconds
<u>O</u> K <u>C</u> ancel

Pay attention DO NOT select the INPUT as SENSOR, but as DRY CONTACT, afterwards, go to DRY CONTACT DEFINITION and select the "REVERSE" switch polarity.

Programming

Surfceiling detector	Dry Contact	Keypad	(1-2-9)
Event 1	Momentary	Fade time = 0.0 secs	
Function (LED)	is on when all loa	ds are on 100%	LED: Normal
Event 2	Preset	Fade Time = 1.0 secs, Execute in the On State	
Loads	(10100101) Equipment, Equipment, Light 1 (90%)		
Function (LED) is on when all loads are at learned value			LED: Normal
Event 3	Preset	Fade Time = 10.0 secs, Execute in the Off State	
Conditions	Delay: 60.0 secs if the function state is off		
Loads	(10100101)	Equipment, Equipment, Light 1 (0%)	
Function (LED) is on when all loads are at learned value LED: Normal			LED: Normal

2. For Infusion

Select the station (keypad, contact input, low voltage output, din dimmer) where you want to connect the motion sensor to. Select "Dry Contact" and polarity "Normally Closed"

Object Editor			# ×
Project: DIN Dimmer Station 1			
🖃 🚳 DIN Dimmer Station 1	Name	Suftceiling Motion Sensor	
	VID	32	
- 🖬 📮 Dry Contact 2	Task	Task Motion Sensor	→
Dry Contact 3	Polarity	Normally Closed	•
	Hold On Time	0	
Dry Contact 6	Position	1	L.
			1
			1
۰ ۱			
Input 5		Dry Contact	
Input 6		Dry Contact	_

Programming

Use the procedure "motion sensor".

Procedure Loads Levels Miscellaneous ✓ Favorites Motion Sensor Sets loads to new levels when the motion detector sends a contact. When the contact releases, the levels return to their previous values after a specified delay. ✓ Adjusting Advanced Control Parameters ✓ Cadata Dimmer Behavior Pathway Default Dimmer Behavior ✓ Default Dimmer Behavior Motion Sensor Motion Sensor ✓ Default Dimmer Behavior Motion Sensor Itelases, itelases, itelases ✓ Default Dimmer Behavior ✓ Motion Sensor Itelases Loads: to be controlled. ✓ Default Dimmer Behavior ✓ Default Dimmer Behavior Motion Sensor ✓ Default Dimmer Behavior ✓ Motion Sensor ✓ Default Dimmer Behavior ✓ Motion Sensor ✓ Default Dimmer Behavior ✓ Motion Sensor	Procedure Wizard - Motion Sensor	
 Lighting Dimming Togging Togging Advanced Control Advanced Control Advanced Control Coad Assignment Memory Coad Assignment <li< th=""><th>Procedure Loads Levels Miscellaneous</th><th></th></li<>	Procedure Loads Levels Miscellaneous	
		Sets loads to new levels when the motion detector sends a contact. When the contact releases, the levels return to their previous values after a specified delay. Parameters Loads: The loads to be controlled. Levels: The levels to which the loads are to be set. Ramp Time: The time in seconds a load takes to turn on. Fade Time: The time in seconds a load takes to trem on. is previous level. Off Delay: The delay in seconds to wait before turning off the load when the contact releases. Memorize Levels: If true, the procedure will remember the previous levels of the loads, and return them to those levels. Triggers Used Button Press