

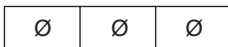


Surfceiling Detector

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:



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

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.

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	7.3 m Ø
3	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 to 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 Surfceiling 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

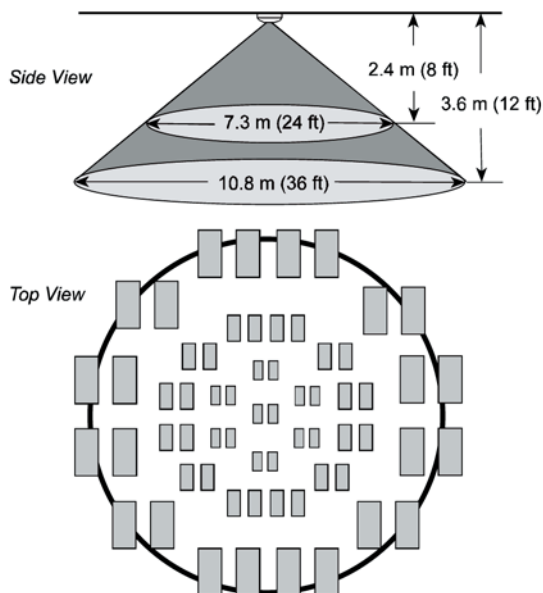


Figure 1: Coverage Pattern

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.

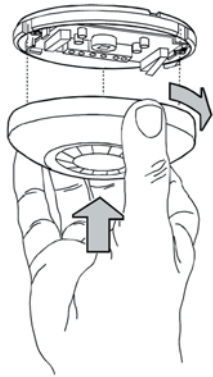


Figure 2: Removing the cover

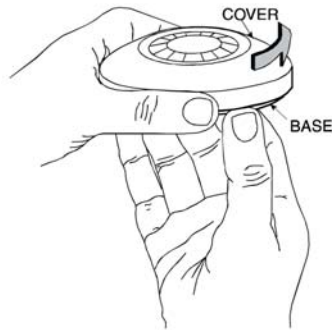


Figure 3: Installing the cover

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.

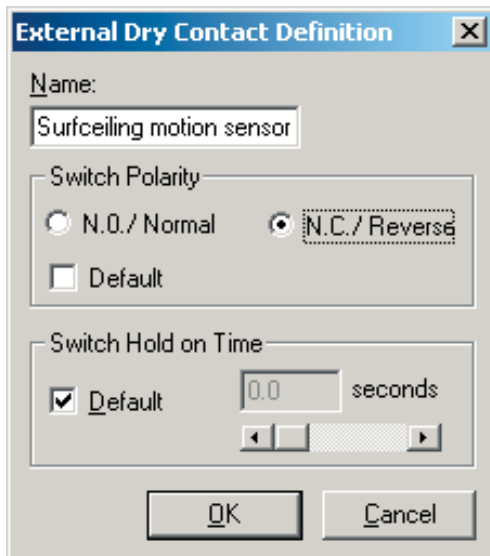
1. For Qlink:

Select on the STIDEW101 (Contact Input Station), DIN-EDS (DIN Dimmer) & LVOS (Low Voltage Output Station) on the auxiliary inputs "dry contact". *Remark: 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 CONNECTION", a DRY CONTACT as external input for the motion sensor.



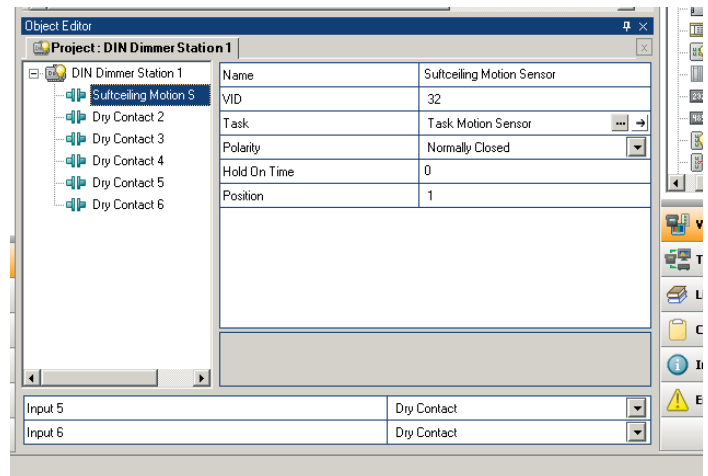
Pay attention DO NOT select the INPUT as SENSOR, but as DRY CONTACT, afterwards, go to DRY CONTACT DEFINITION and select the "REVERSE" switch polarity.

Programming

Surfceiling detector	Dry Contact	Keypad	(1-2-9)
Event 1	Momentary	Fade time = 0.0 secs	
Function (LED) is on when all loads 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

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"



Programming

Use the procedure "motion sensor".

