

## Outdoor KNX Movable Motion Sensor



<b>Product Code</b>	ITR410-0003
<b>Power Supply</b>	21-30 V DC
<b>Current Consumption</b>	10 mA (dynamic) 5 mA (static)
<b>Outputs</b>	2 x Lighting outputs 2 x HVAC outputs 1 x Alarm output
<b>Installation Height</b>	2-3 m
<b>Detection Range</b>	Adjustable from r=3m to r=16m
<b>Detection Angle</b>	360°, $\phi$ 32m (install height 2.5m)
<b>Type of Protection</b>	IP 55 (wall mount) IP 54 (ceiling mount)
<b>Temperature Range</b>	Operation (-20°C...50°C)
<b>Maximum Air Humidity</b>	< 90 RH
<b>Colour</b>	White
<b>Dimensions</b>	Wall Mount: 150x84x90 (WxHxD) Ceiling Mount: 166x111x90 (WxHxD)
<b>Certification</b>	KNX Certified
<b>Configuration</b>	Configuration with ETS

### DESCRIPTION

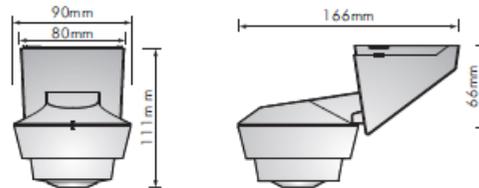
Outdoor KNX Movable Motion Sensor is a multi-functional light level and a movement detector. ITR410-0003 includes 5 outputs for Lighting, HVAC and Alarm control operations. The sensor should be programmed via the most current ETS software. Moreover, the sensor is designed with a temperature-compensated circuit to avoid thermal problems at high temperatures. ITR410-0003 can be used at a proper location such as home, office, building entrance, hotel, stairs, yard, parking area, corridor etc.

### IMPORTANT NOTES

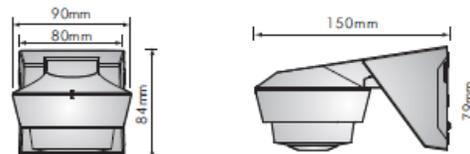
- **Special Programming:** ITR410-0003 is designed for professional KNX installation. It can be programmed by ETS software.
- **Cable Connections:** Ensure making correct connections for Black and Red wires.
- **Voltage:** The input voltage shall be 21-30 V DC.
- **Mounting Location:** Installation outdoors, to avoid installation near the air-conditioner vent, and be away from the heat source.
- Do not get 240 V AC voltage into the Bus wire.

### DIMENSIONS

#### ● Ceiling mount: 166 x 90 x 111 mm



#### ● Wall mount: 150 x 90 x 84 mm



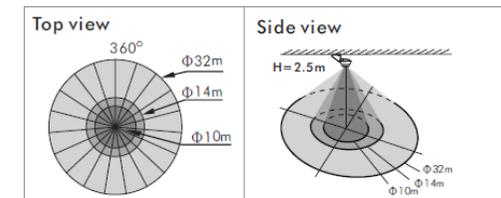
### FUNCTIONS

- KNX Movable Motion Sensor supports movement and LUX detection.
- Adjustable from approximately 10 Lux to  $\infty$  and Lux learning range: 10 Lux - 2000 Lux.
- **Load On-Time in Standby Mode:** Several adjustments: 1 min, 2 min, 3 min, 4 min, 5 min, 6 min, 7 min, 8 min, 9 min, 10 min, 15 min, 20 min, 30 min, 60 min and  $\infty$ .
- **Load on Illumination in Standby Mode:** Several adjustments: 1%, 2%, 3%, 4%, 5%, 10%, 15%, 20%, 30%, 40%, 50%, 60% and disable.
- **Delay Off Time Adjustment:** Several adjustments: 1 sec, 5 sec, 30 sec, 1 min, 3 min, 5 min, 10 min, 15 min, 20 min, 30 min, 60 min.
- A red LED is equipped as an indicator for test triggering and a blue LED is for indicating ETS installation. Moreover, the LED function can be disabled by ETS.
- Detector head adjustment: 90° left, 90° right, 90° up and 40° down.
- Alarm function can be set to switch ON and switch OFF. Also, alarm output can be locked.

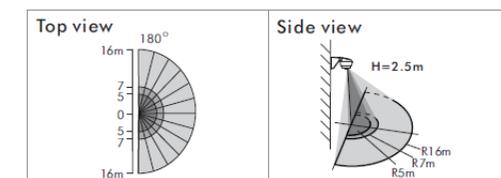
### DETECTING

The sensor should be mounted in a proper location at 2-3 m. The advised mounting height is 2.5 m to achieve the optimal detection range.

#### Ceiling Mount



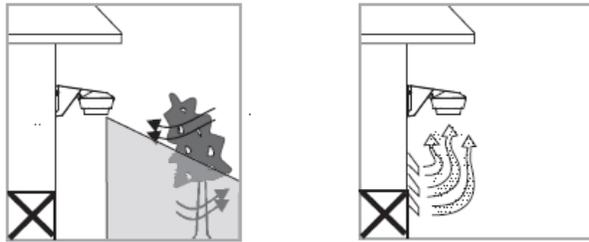
#### Wall Mount



## USEFUL INSTALLATION TIPS

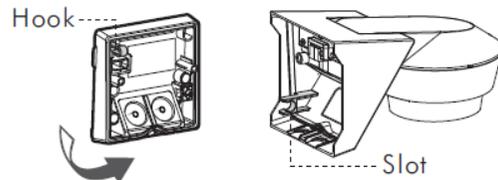
As the sensor reacts to temperature changes, the following conditions should be avoided:

-  Avoid targeting the sensor toward the objects which may be swayed in the wind, such as curtains, tall plants, miniature gardens, etc.
-  Avoid targeting the sensor toward the objects whose surfaces are highly reflective, such as mirrors, glass and pool, etc.
-  The sensor should be mounted away from heat sources such as air conditioning, lights, heating vents etc.

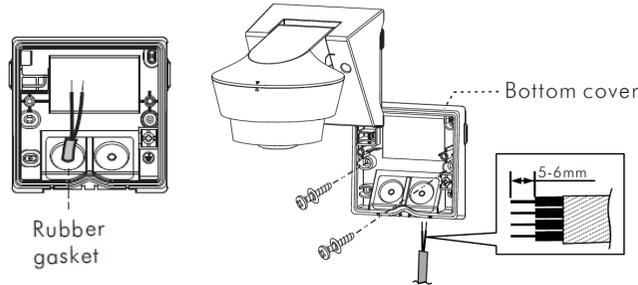


## MOUNTING

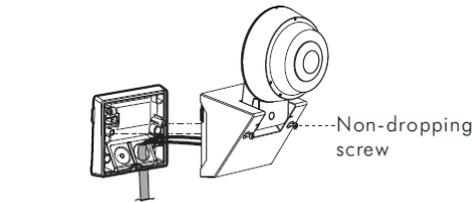
First, to make installation conveniently, you do not need to hold the product on hand because the junction box of the detector can be stuck on the bottom cover by inserting the hook.



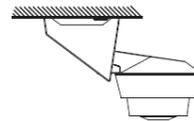
Please strip off 5-6 mm of cable sheathing by tool before installation. Feed the electric cables through the rubber gasket for correct wiring, then fit the bottom cover with two screws.



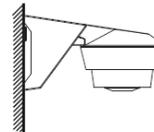
Fix the detector head to the bottom cover and adjust the detector head to be in the right position.



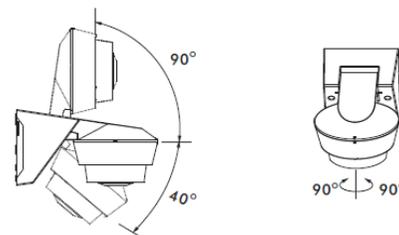
Ceiling mount



Wall mount



The sensor head can be adjusted downward maximum of 40° to shorten the detection range, or turned leftward and a rightward maximum of 90° horizontally. Please adjust detector head to get the desired detection field.



## OPERATIONS

The purpose of conducting a walk test is to check and adjust the detection coverage. Set the Time knob to "Test" for conducting the walk test. The Lux value is invalid in Test mode.

### Walk Test Process

- ⇒ The tester must be within the detection coverage.
- ⇒ Switch power on.
- ⇒ The detector takes approx. 60 sec to warm up with a load on, then turns off after warming up time.
- ⇒ Walk from outside across to the detection pattern until red LED and load turns on for approx. 2 sec then off, the next trigger should be 2 sec interval.
- ⇒ Adjust detector head aiming to the direction to be detected.
- ⇒ Adjust sensitivity and adjust time setting to change the switch off delay time.

### Usage of Lens Shield

Used Lens Shield	Covered Detection Range
None	Φ 32m
Small Segment	8.5" per piece
A + B	Φ 10m
A	Φ 14m

ITR410-0003 has provided 3 lenses of shields for masking the unwanted detection areas.

Part of the lens shield is used.

