

ITR410-003 - OUTDOOR KNX MOVABLE MOTION SENSOR



Device	ITR410-003
Power Supply	21-30 V DC
Current Consumption	10 mA (dynamic) 5 mA (static)
Outputs	2 x Lighting outputs 2 x HVAC outputs 1 x Alarm output
Installation Height	2-3 m
Detection Range	Adjustable from r=3m to r=16m
Detection Angle	360°, ϕ 32m (install height 2.5m)
Type of Protection	IP 55
Temperature Range	Operation (-20°C...50°C)
Maximum Air Humidity	< 90 RH
Color	Light Grey and White
Dimensions	Wall Mount: 150x84x90 (WxHxD) Ceiling Mount: 166x111x90 (WxHxD)
Certification	KNX Certified
Configuration	Configuration with ETS

DESCRIPTION

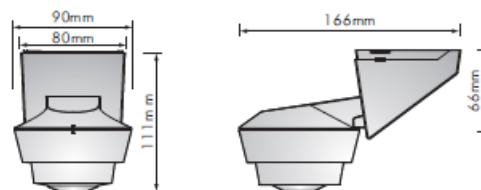
ITR410-003 - Outdoor KNX Movable Motion Sensor is a multi-functional light level and movement detector. ITR410-003 includes 5 outputs for Lighting, HVAC and Alarm control operations. The sensor should be programmed via most current ETS software. Moreover, to avoid thermal problems at high temperatures, the sensor is designed with temperature compensated circuit. ITR410-003 can be used at proper location such as home, office, building entrance, hotel, stairs, yard, parking area, corridor etc.

IMPORTANT NOTES

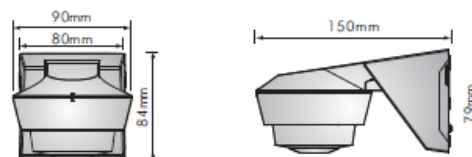
- **Special Programming:** ITR410-003 is designed for professional KNX installation. It can be programmed by ETS software.
- **Cable Connections:** Ensure making correct connections for Black and Red wires.
- **Voltage:** The input voltage shall be 21-30VDC.
- **Mounting Location:** Installation at outdoors, to avoid installation near the air-conditioner vent, and be away from the heat source.
- Do not get 240 V AC voltage into Bus wire.

DIMENSIONS

● Ceiling mount: 166 x 90 x 111 mm



● Wall mount: 150 x 90 x 84 mm



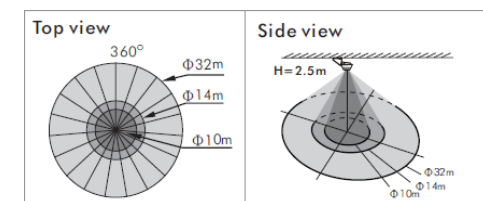
FUNCTIONS

- ITR410-003 supports movement and LUX detection.
- Adjustable from approximately 10 Lux to ∞ and Lux learning range: 10 Lux - 2000 Lux.
- **Load On Time in Standby Mode:** Several adjustments: 1min, 2min, 3min, 4min, 5min, 6min, 7min, 8min, 9min, 10min, 15min, 20min, 30min, 60 min and ∞ .
- **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: 1sec, 5sec, 30sec, 1min, 3min, 5min, 10min, 15min, 20min, 30min, 60min.
- 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 for switch ON and switch OFF. Also, alarm output can be locked.

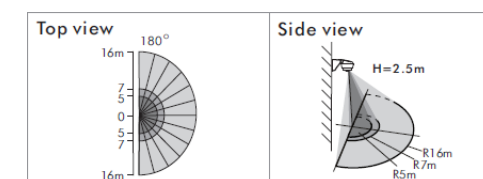
DETECTING

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

Ceiling Mount






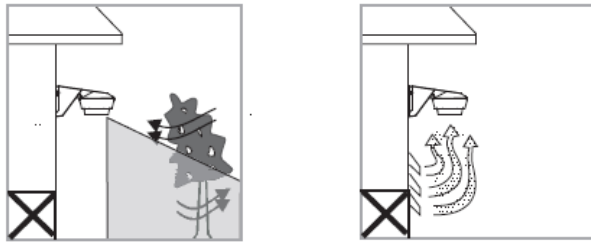
Wall Mount



USEFUL INSTALLATION TIPS

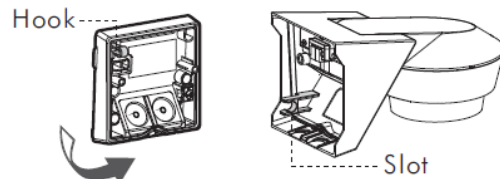
As the sensor reacts to temperature changes, the following conditions should be avoided:

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

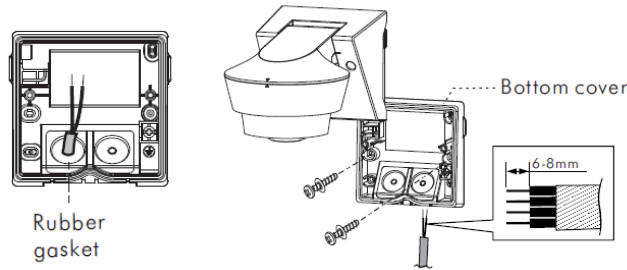


MOUNTING

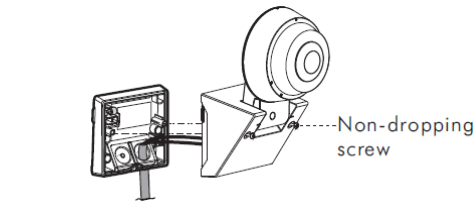
First, to make installation conveniently, you do not need to hold the product on hand because the junction box of the detector can be stuck on the bottom cover by inserting the hook.



Please strip off 6-8 mm of cables sheathing by tool before installation. Feed the electric cables through rubber gasket for correct wiring, then fit the bottom cover by two screws.



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

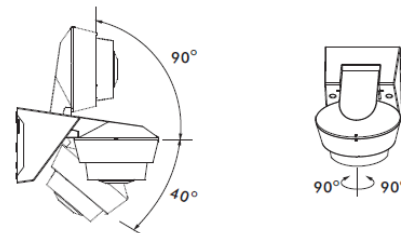


Ceiling mount

Wall mount



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



OPERATIONS

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

Walk Test Process

- ⇒ Tester must be within the detection coverage.
- ⇒ Switch power on.
- ⇒ Detector take approx. 60 sec to warm up with 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. 2sec then off, the next trigger should be 2sec 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

ITR410-003 has provided 3 lens of shields for masking the unwanted detection areas.

Part of the lens shield is used.

