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Developer of Uniqueness

KNX SYSTEM
Sensors/Detectors

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KNX®

HIGH BAY KNX PRESENCE SENSOR

ITR412-001

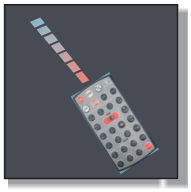
The High Compartment KNX Presence Sensor is for high compartments from 2.5 to 10 meters. A multifunctional asset is the light level and PIR sensor.

With a mounting height of 10m, 360 ° detection range and a range of Φ16m.

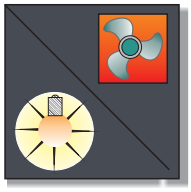
2-level standby, ambient light evaluation and continuous light control functions provide comfort and energy savings.

Depending on the different application requirements, the sensor can be configured as master-slave mode.

In addition, the sensor can be programmed using the latest ETS software.



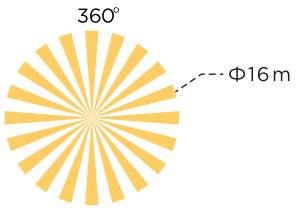
Programmable with IR remote control.



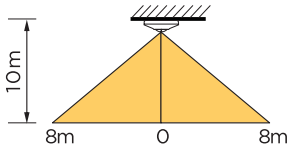
Double installation for lighting and HVAC control respectively.

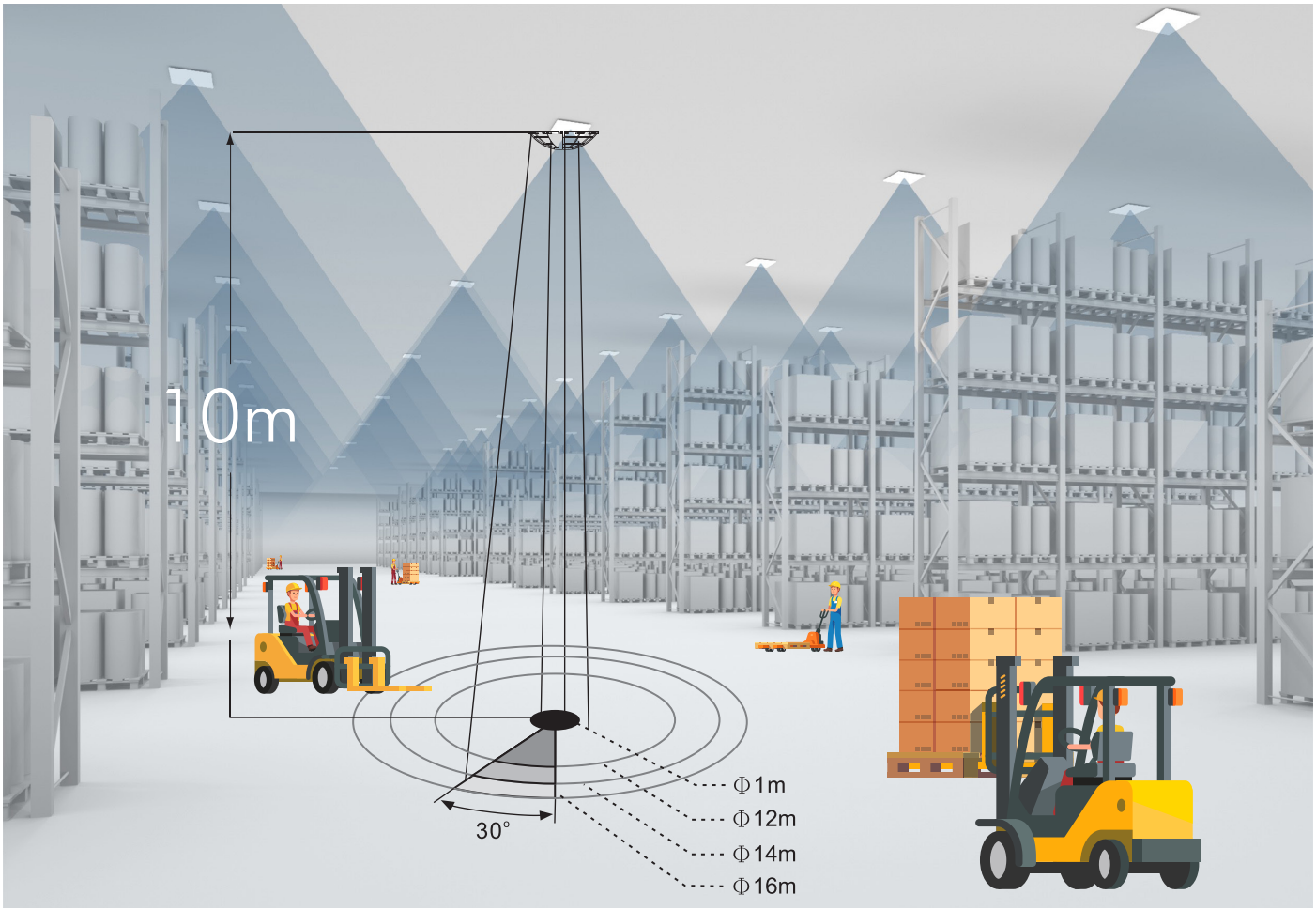
It is possible to learn the luxury value in the environment (with IR remote control)

Top view



Side View



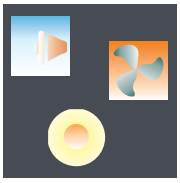


OUTDOOR KNX MOVABLE MOTION SENSOR

ITR410-003

KNX is a motion detector and integrated PIR motion and light level sensor designed to be included in the intelligent building automation system, HVAC automation control for energy saving and alarm function for security.

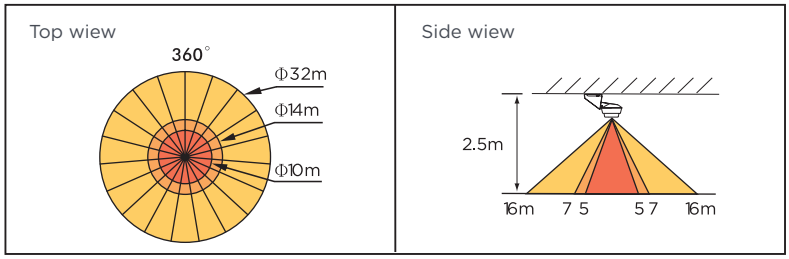
- Detection scope Ø32m at 2.5m mounting height 360 ° motion detector. KNX (EIB) is for use with other KNX devices in the TP (Twisted Pair) bus system.
- Parameter and function settings are made via ETS 5 (Engineering Tool Software Ver.5.0) or IR remote control (IR-11KNX).
- There are five control outputs provided for lighting, HVAC and Alarm applications.
- Programmable with IR remote control for easy and fast settings.
- If the ambient value is preset, it can be learned as a threshold for switching loads on and off with IR.
- The luxury value does not match the user's requirement.
- Temperature compensated circuit design to avoid false triggering problem at high temperature.

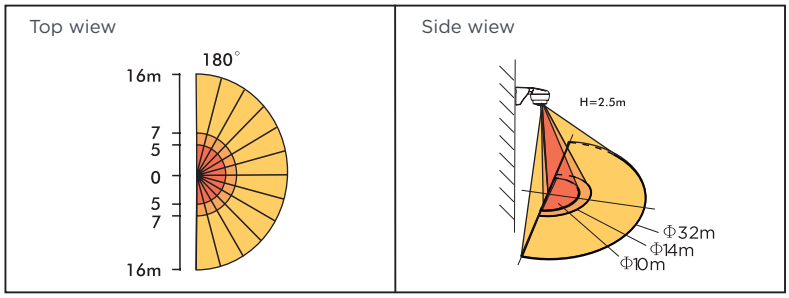


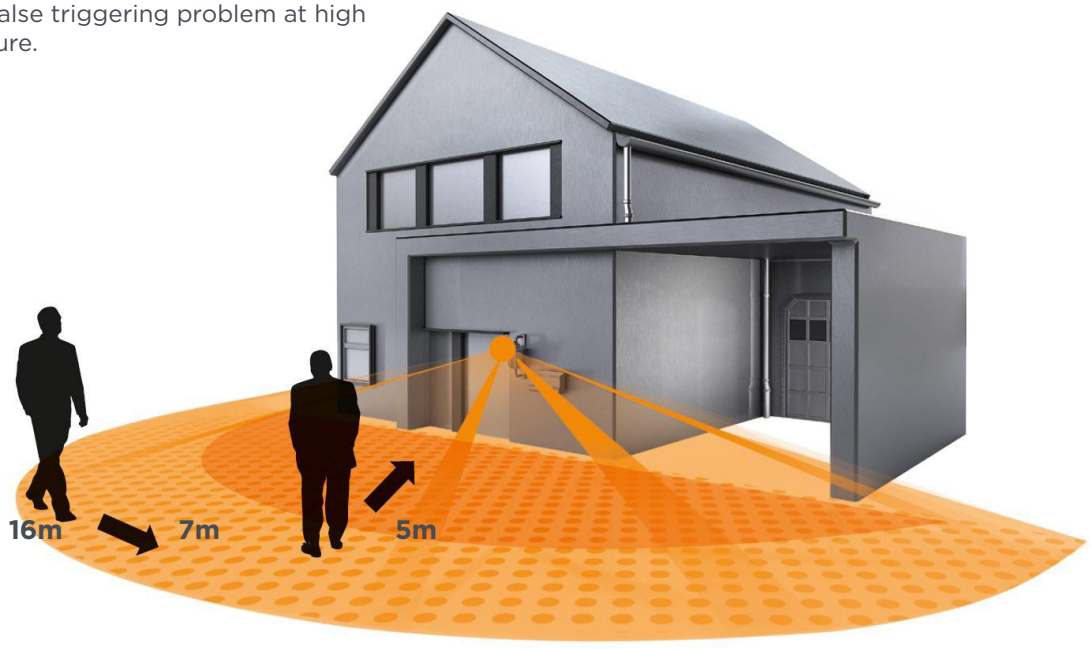
Multiple control outputs for Lighting, HVAC and Alarm control respectively.

Environmental protection reaches up to level IP55 for outdoor use.

The detector head can be adjusted from left to right, up to 90 °, down to 40 °.







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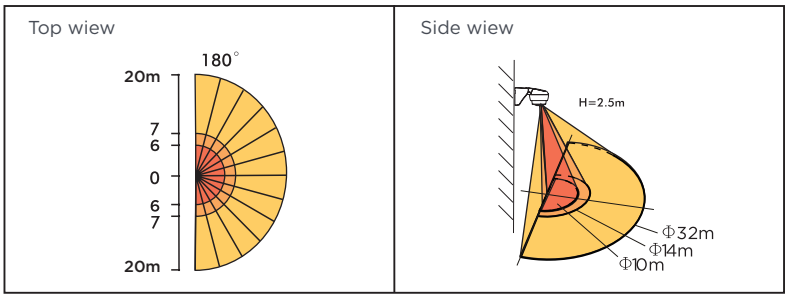
Outdoor Microwave Sensor

ITR411-002

The KNX Open Field Doppler Sensor contains 4 independent logic blocks and 1 combined logic block.

The logical relationship can be “AND” and “OR,, logic input conditions; It can be LUX sensor, microwave sensor, humidity sensor, temperature sensor, dry contact states and external telegram.

- Built-in LUX sensor, microwave sensor, humidity sensor, dry contact and external telegram.
- It has 5 logical function blocks and can be configured with AND / OR relationship. Each block can control 10 output objects.
- Master & Slave and single mode operation is possible.
- The multi-function motion sensor is able to transmit motion and Lux status to the KNX bus line.
- The multifunctional motion sensor can provide constant brightness output.
- The sensor provides object controls: Switch control, Full dimming control, Curtain / Shutter control, Alarm control, Percent control, Sequence control, Scenario control, Character sequence control, Threshold control, Logic combination control.
- With a constant brightness function: The sensor maintains the Lux at a constant value and draws the lights to the appropriate intensity according to the surrounding brightness.
- Logic accuracy can be adjusted on an external telegram. The end user can enable or disable preset logic functions.



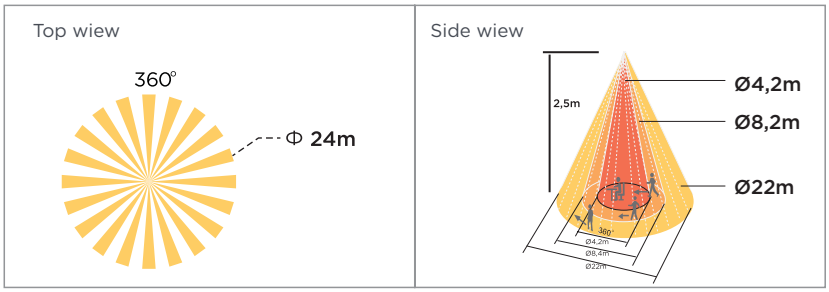
Wide-Range
PIR Sensor

Wide Range Ceiling Mounted Asset & LUX sensor is a multifunctional sensor that can detect motion, temperature and light intensity.

Designed for ceiling mounting, the presence sensor can detect the presence of an object up to 24 meters away, making it ideal for safety and lighting applications.

- For a specific solution, the detection zone of the presence sensor can be disassembled by means of the ETS program and special detection zones can be created.
- The detection range of the 24m sensor is up to 22 meters, mounting at a height of 2.5 meters is recommended.
- The multifunctional motion sensor can provide constant brightness output.
- The sensor provides object controls: Switch control, Full dimming control, Curtain / Shutter control, Alarm control, Percent control, Sequence control, Scenario control, Character sequence control, Threshold control, Logic combination control.
- With a constant brightness function: The sensor maintains the Lux at a constant value and draws the lights to the appropriate intensity according to the surrounding brightness.
- The operating mode includes single mode and Master & Slave mode.
  A master sensor can be used in combination with multiple slave sensors, when the slave sensor detects movement it sends the data to the master sensor, then the master sensor performs the corresponding control operations.

ITR410-002



Mid-Range
PIR Sensor

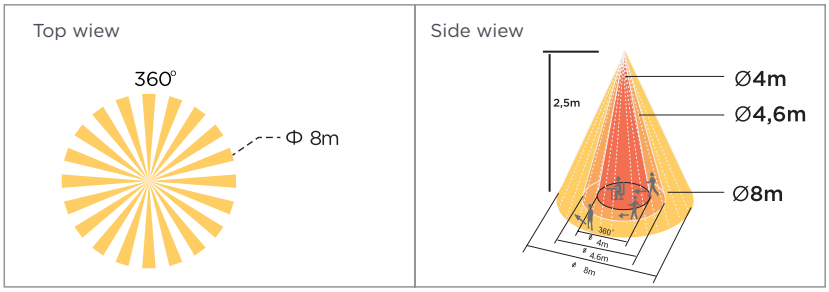
Medium Distance Ceiling Mounted Asset & LUX Sensor is a multifunctional motion sensor.

Includes 4 independent, 1 combination logic blocks. logic relationships can be adjusted. Logic input conditions include motion, LUX and external conditions.

Depending on the various application requirements, the sensor can be configured in master-slave mode or single mode.

- It supports motion detection, temperature detection, LUX detection and external telegram detection.
- Supports 2-channel light control, can control switch and dimming output. When the dimming function is used, 4 brightness values can be adjusted and after 4 time delays, the configured brightness value is reached.
- The sensor has 5 logic function blocks. Each block can control 10 output objects. Master & Slave and single mode operation is possible.
- It is capable of transmitting motion, temperature and LUX states to the KNX bus line.
- The distances that people can be perceived while walking or sitting are different. The recommended installation height is between 2-3 meters. The sensing distance increases as the installation distance increases.
- The sensor provides object controls: Switch control, Full dimming control, Curtain / Shutter control, Alarm control, Percent control, Sequence control, Scenario control.
- With a constant brightness function: The sensor maintains the Lux at a constant value and draws the lights to the appropriate intensity according to the surrounding brightness.

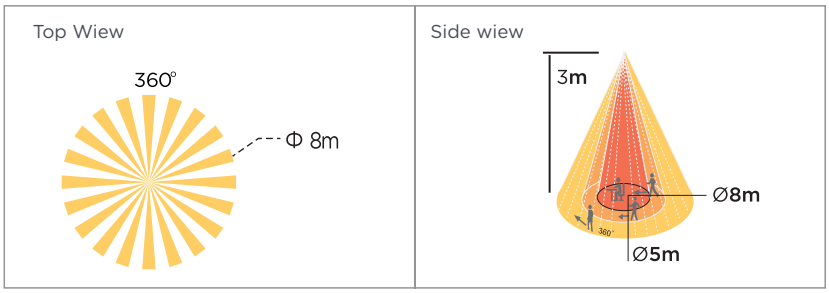
ITR410-001

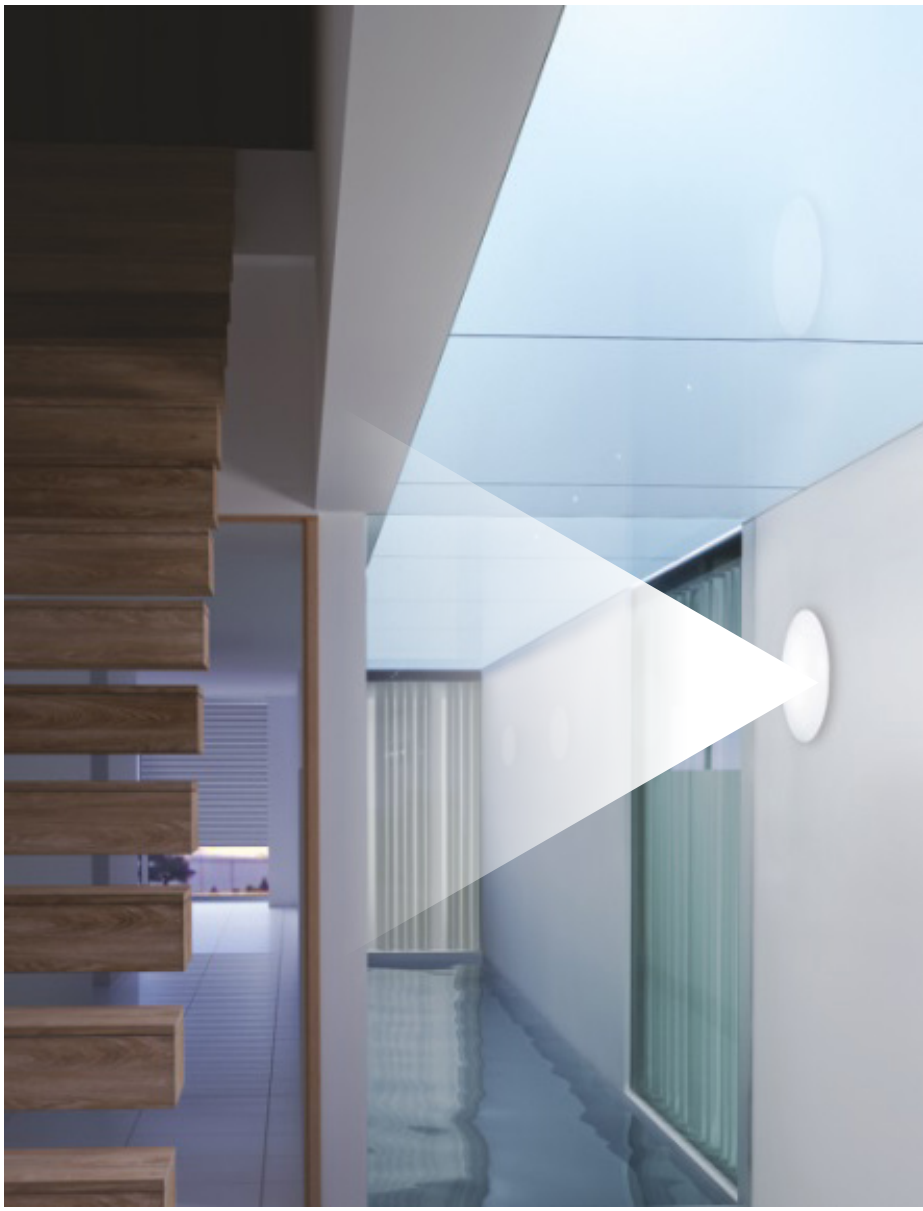


Indoor Microwave Sensor

ITR411-001

- It has built-in LUX sensor, microwave sensor, temperature sensor, dry contact and external telegram functions.
- The sensor has 5 logic function blocks and can be configured with AND / OR relationship. Each block can control 10 output objects. Master & Slave and single mode operation is possible.
- The multi-function motion sensor is able to transmit motion and Lux status to the KNX bus line.
- The multifunctional motion sensor can provide constant brightness output.
- The sensor provides object controls: Switch control, Full dimming control, Curtain / Shutter control, Alarm control, Percent control, Sequence control, Scenario control, Character sequence control, Threshold control, Logic combination control.
- With a constant brightness function: The sensor maintains the Lux at a constant value and draws the lights to the appropriate intensity according to the surrounding brightness.
- Logic accuracy can be adjusted on an external telegram. The end user can enable or disable preset logic functions.





ITR411-002

Wall Mount Outdoor Microwave Sensor

ITR411-002 KNX Outdoor Doppler Sensor includes 4 independent logic blocks and 1 combined logic block, the logic relation can be "AND" "OR" , logic input conditions can be the condition of LUX sensor, microwave sensor, humidity sensor, temperature sensor, dry contact, external telegram.

Description	Dimensions	Order Code	Price 1 Pc. €	Price Unit Pc.
	126x78x114mm	ITR411-002		1

ITR410-002

Wide-Range Ceiling Mount PIR Sensor

ITR410-002 Ceiling Mount PIR & Lux Sensor is able to sense motion, temperature, and lighting intensity. Designed to be ceiling mounted the PIR sensor is able to detect a presence at up to 24meters away, making it ideal for lighting and security applications. For a tailored detection solution the PIR detection area can be partitioned via ETS software, enabling custom detection zones to be created.

Description	Dimensions	Order Code	Price 1 Pc. €	Price Unit Pc.
	84x41,6mm (D-H)	ITR410-002		1

ITR410-001

Mid-Range Ceiling Mount PIR Sensor

ITR410-001 a multi-functional movement sensor. It includes 4 independent logic blocks and 1 combined logic block. The logic relations "AND", "OR" can be set. The logic input conditions contain the conditions of movement sensor, LUX and external conditions. According to different application requirements, the sensor can be configured as the master-slave mode or single mode.

Description	Dimensions	Order Code	Price 1 Pc. €	Price Unit Pc.
	63x46,6mm (Ø-H)	ITR410-001		1

ITR411-001

Ceiling Mount Indoor Microwave Sensor

ITR411-001, includes 4 independent logic blocks and 1 combined logic block, the logic relation can be "AND" "OR" , logic input conditions can be the condition of LUX sensor, microwave sensor, temperature sensor, dry contact, external telegram.

Description	Dimensions	Order Code	Price 1 Pc. €	Price Unit Pc.
	63x46,6mm (Ø-H)	ITR411-001		1

ITR412-001

High Bay KNX Presence Sensor

ITR412-001 - High Bay KNX Presence Sensor is a multi-functional presence light level and PIR sensor. ITR412-001's alarm, 2-level standby, ambient light appraisal and constant light control functions can be used to ensure comfortable life and energy saving. According to different application requirements, the sensor can be configured as the master-slave mode. Also, the sensor can be programmed using the most current ETS software. ITR412-001 is for highbay mounted between 2.5m to 10m height at proper locations.

Description	Dimensions	Order Code	Price 1 Pc. €	Price Unit Pc.
	102x54mm (ØxH)	ITR412-001		1

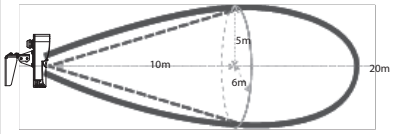
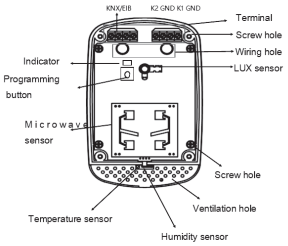
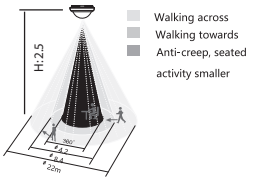
ITR410-003

Outdoor KNX Movable Motion Sensor

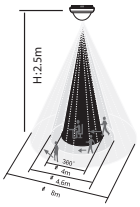
ITR410-003 - Outdoor KNX Movable Motion Sensor is a multi-functional light level and movement detector. ITR410-003 includes 5 outputs for Lighting, HVAC and Alarm control operations. The sensor should be programmed via most current ETS software. Moreover, to avoid thermal problems at high temperatures, 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.

Description	Dimensions	Order Code	Price 1 Pc. €	Price Unit Pc.
	Wall Mount: 150x84x90 (WxHxD) Ceiling Mount: 166x111x90 (WxHxD)	ITR410-003		1

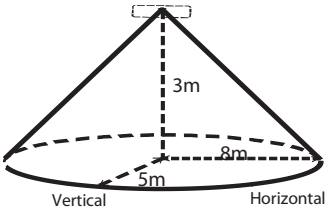
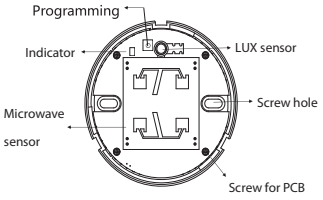
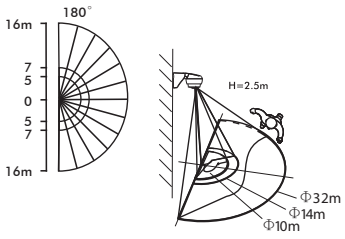
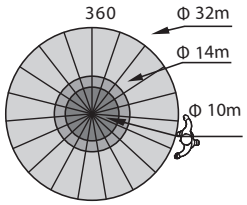
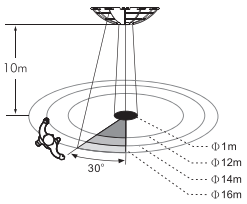
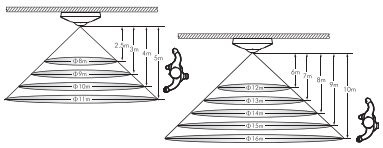
KNX System Sensors

	KNX sensors	Functionality: Motion detector	Functionality: Constant light	Motion detection area	Comments/ Constant light reception area
	Wall Mount Outdoor Microwave Sensor	Microwave	•		
	Wide-range Ceiling Mount	Light level	•		

Mounting height	Seated activity	Walking towards	Walking across
2.5m	4.2m	8.4m	22m
3m	4.6m	9.6m	23.2m
4m	5.2m	10.6m	24.8m
5m	6.7m	11.5m	27.6m

	Mid-range Ceiling Mount	Light level	•		

Mounting height	Seated activity & walk-ing towards	Walking across with small steps	Walking across
2.5m	4m	4.6m	8m
3m	4m	4.6m	8m
4m	4m	7m	10m
5m	4m	8m	10m

	Ceiling Mount Indoor	Microwave	•		
	Outdoor KNX Movable Motion Sensor	PIR + Light	•		
	High Bay KNX Presence Sensor	Presence	•		

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