# Panasonic

## SENSOR & DETECTOR

KNX Ceiling Type Presence Detector



### ■ MAIN FEATURES

- The PIR sensor on the product has a moving lens (mechanical adjustment) and a shade ring allow users to easily customize the coverage area and detection range.
- RGB LED can be used to indicate movements or/and one of the measurements value.
- Mixed light measurement suitable for fluorescent (FUPUESL), halogen/incandescent lamps and LEDs.
- KNX programming button of the product is under the front cover for easy access.
- Product can be flush mounted installed in ceilings with clamps.
- Ceiling installation is also possible with surface-mounted box.
- 8 independent channels can be used for presence or/and brightness dependent control for lighting, HVAC control etc...
- Test mode for checking function and detection area
- All sensors measurements can be calibrated before ETS programming by parameters or after ETS programming by communication objects.
- Alarm function for measurements

- Presence dependent channels can work in parallel (Master/ Slave or Master/Master)
- Short presence function reduces the time delay when device detects movement briefly
- Brightness switching value or set point value can be set in lux before ETS programming by parameters or after ETS programming by communication objects
- Channel's presence and brightness sources can be from internal or/and external sensors
- Independent lock function for each channel
- Channels can be programmed to work with manual switching/dimming (by push buttons for example).
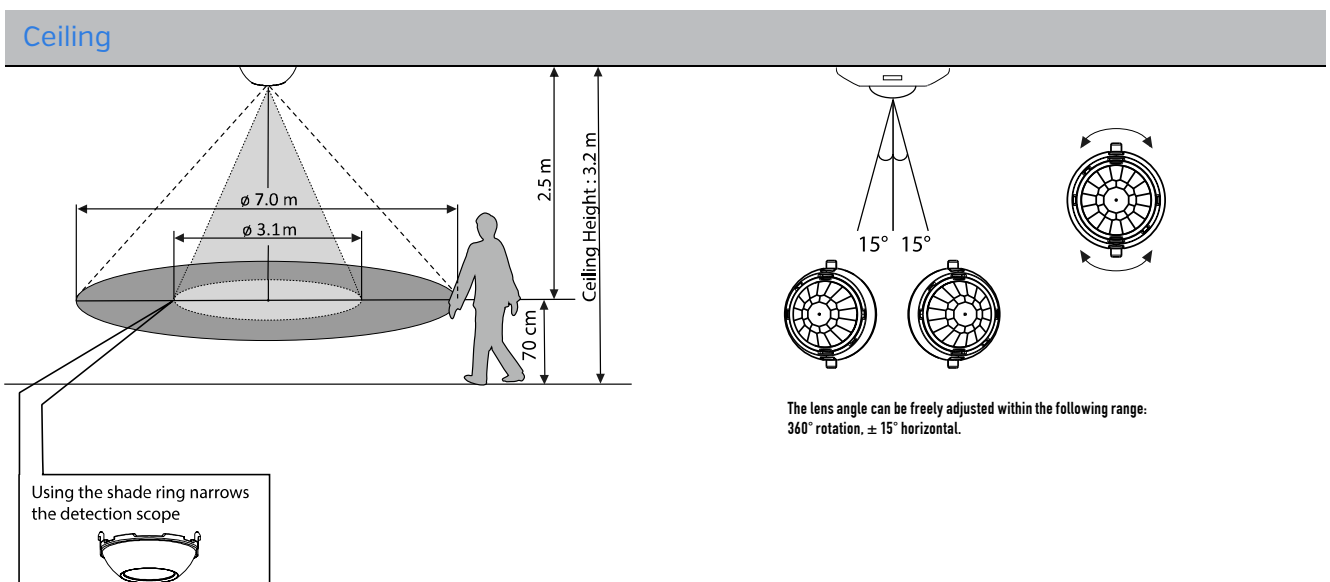- Participation to scenes

### ■ TECHNICAL DATA

| | KNX Ceiling Type Presence Detector |
|---|---|
| Supply voltage | 21 ... 32V DC via KNX Bus |
| Ambient temperature | –5°C ... +45°C |
| Type of protection | IP20 to EN60529 |
| Safety class | III to IEC 60664–1 |
| Detectable movement speed | 0.3 m/s ~ 1.0 m/s |
| Detectable temperature difference | More than 4°C |
| Brightness measurement | 1 ... 3000 lux |
| Temperature measurement | 0°C ... 45°C |
| Relative humidity | 0% ... 100% |
| Air Quality, Equivalent carbon dioxide (eCO$_2$) | 400 ppm ... 8192 ppm. |

### ■ PRODUCT CODES

| | PRODUCT CODES |
|---|---|
| KNX Ceiling Type Presence Detector A100 | WRKT32005NC |
| KNX Ceiling Type Presence Detector A100–T | WRKT32015NC |
| KNX Ceiling Type Presence Detector A100–TA | WRKT32025NC |

**Specifications are subject to change without notice.**

THEA IQ HOME AUTOMATION SYSTEMS

| Product Version | | | |
|---|---|---|---|
| **Product Features** | WRKT21005NC | WRKT21015NC | WRKT21025NC |
| | KNX Ceiling Type Presence Detector A100 | KNX Ceiling Type Presence Detector A100-T | KNX Ceiling Type Presence Detector A100-TA |
| **Presence detection** | √ | √ | √ |
| **Brightness measurement** | √ | √ | √ |
| **Temperature measurement** | - | √ | √ |
| **Humidity measurement** | - | √ | √ |
| **Air Quality measurement** | - | - | √ |

## Ceiling



ø 7.0 m
ø 3.1 m
2.5 m
Ceiling Height : 3.2 m
70 cm

Using the shade ring narrows the detection scope

15°  15°

The lens angle can be freely adjusted within the following range: 360° rotation, ± 15° horizontal.

- The scope of detection is different depending on the height of the ceiling (unit:m)
- The shade ring can be used if the detection range of the motion sensor is wanted to be reduced. It can be mounted to the device by pushing it towards the lens.

| Ceiling height | 2.7 m | 3.2 m | 4.2 m |
|---|---|---|---|
| **Guideline height for detection scope setting** | 2.0 m | 2.5 m | 3.5 m |
| **Diameter of detection scope without shade ring** | Ø 5.6 m | Ø 7.0 m | Ø 9.8 m |
| **Diameter of detection scope with shade ring** | Ø 2.5 m | Ø 3.1 m | Ø 4.4 m |

Remark: The standard of appropriate height is 70 cm from floor or height from floor to hand of human for detection.

## ■ DIMENSIONS



Ø 85
14.5
38
CUT OUT SIZE: 57-71 mm
55.2
1 < T < 28 mm