# Panasonic®

**WRKT32105NC   KNX Corridor Type Detector (Surface Mounted)**

**WRKT32205NC    KNX Corridor Type Detector (Flush Mounted)**

WRKT32105NC
WRKT32205NC

KNX® CE

⚠ Installation should only be carried out by a technical personnel having certificate of competency

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## Panasonic®

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### Main Features

• There are two channels of input that can connect to 2 separate push buttons for lighting On/Off or dimming control. The conditions of movement detection can be programmed according to the occupancy and the ambient brightness.
• AUTO mode or SEMI-AUTO mode can be programmed via ETS.
• Detection range can be extended by connecting slave sensors to master sensor.
• A red LED indicator is equipped for indication of movement detection.

### Technical Information

| Model Name | WRKT32105NC, WRKT32205NC |
|---|---|
| Product Name | KNX Corridor Type Detector (Surface Mounted) KNX Corridor Type Detector (Flush Mounted) |
| Rated Voltage | 24VDC (via KNX bus) |
| Operating Temperature | -20°C ~ +45°C |
| Current Draw | Approx. 10mA |
| Rated Load | Up to 2 KNX devices via KNX bus |
| Terminal | For WRKT32105NC: 2-pin standard EIB/KNX terminal (Red/Gray or Red/Black) 2-pin push button terminal (S1, S1 & S2, S2) |
| ETS Programming | For WRKT32105NC: Via Program button on the sensor |
| Rated Protection | IP20 |
| Detection | 40m x 5m, L x W (tangential range) 16m x 3m, L x W (radial range) at 2.5m height, 20°C |
| Time Setting | Time 1 & Time 2: 30 sec - 60 min |
| Lux Setting | Lux 1 & Lux 2: 10 - 2000 lux |
| Stand by Time Setting | Standby Time 1 & Time 2: OFF / 1 - 60 min / ON |
| Standby % Setting | Standby Level 1 & Level 2: 10% - 60% |

Table 1

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● Corridor:
KNX Corridor Type Detector
Across - approx. length 40m (20m each side)
* width 5m at 2.5m height, 20°C.
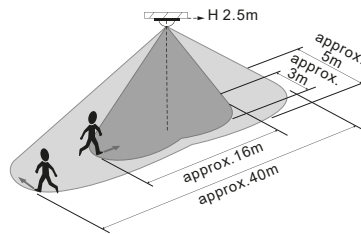Towards - approx. length 16m (8m each side)
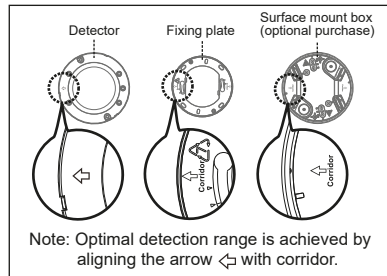* width 3m at 2.5m height, 20°C.



Figure 1



Note: Optimal detection range is achieved by aligning the arrow ⇦ with corridor.

Figure 2

### Usage of Lens Shield

Undesired detection areas can be shielded off by fixing the enclosed lens shield onto the lens.
Trim the lens shield with scissors either horizontally or vertically until the desired detection area is obtained
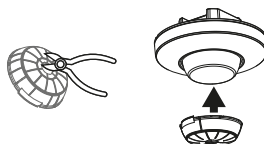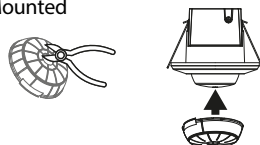
Surface Mounted



Figure 3

Flush Mounted



Figure 4

### Installation

• With surface mount box (Optional purchase)

1. There are 4 pairs of knockouts with various distances from 56mm to 80mm on the bottom cover of combined surface mount box for different mounting applications (Fig. 5). Select two same figures on both ends for the corresponding distance for fixing (Table 2).

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2. To feed KNX bus cables through the side of surface mount box, please use the cutting pliers to break the cable entry knockouts on the side of surface mount box, then feed the KNX bus cables through the entry and into the surface mount box. Strip off 5 - 6mm of cable sheathing for wiring (Fig. 6).
3. Choose proper knockouts to fix the surface mount box on the surface of ceiling with 2pcs screws attached with rubber washer (Fig. 7).
4. Refer to wiring diagrams for correct wiring connection (Fig. 12) and after ETS programming fix the detector into surface mount box with 2pcs non-dropping screws (Fig. 8).
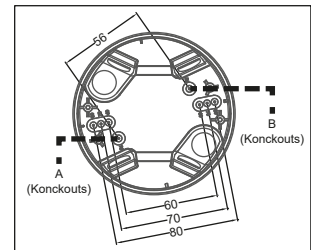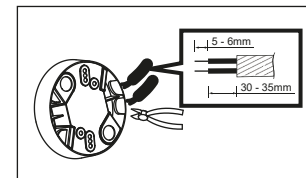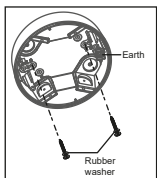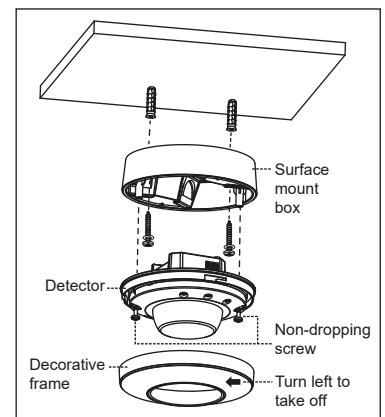5. Fix the decorative frame.



Figure 5

| NO. | A | B | The distance between A and B |
|---|---|---|---|
| 1 | 56 | 56 | 56mm |
| 2 | 60 | 60 | 60mm |
| 3 | 70 | 70 | 70mm |
| 4 | 80 | 80 | 80mm |

Table 2



Figure 6          Figure 7



Figure 8

## Column 1

• Ceiling flush mount with spring clips

1. To install the detector, please drill a hole with diameter of 68mm on ceiling board and keep the KNX bus cable outside. Please strip off 5 - 6mm of cable sheathing for wiring (Fig. 9).
2. Please refer to illustration of Fig. 11 for correct installation, and fix the flush mount spring clips to the detector with 2pcs non-dropping screws (Fig. 10).
3. Refer to wiring diagrams for correct wiring connection (Fig. 13) and after ETS programming tighten the flush mount spring clips with 2pcs non-dropping screws (Fig. 10).
4. Raise the two spring clips, and insert the detector into the drilled hole on ceiling (Fig. 11)



Figure 9          Figure 10

Drill a hole with Ø=68mm on the ceiling

5 - 6mm
30 - 35mm

Non-dropping screw
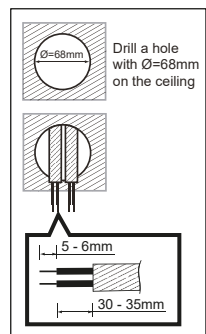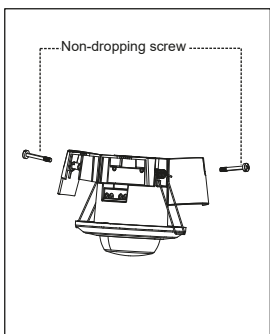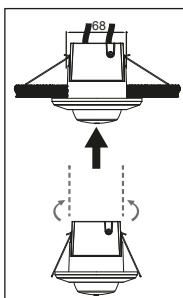


Figure 11

### Connection Diagram

• With surface mount box (Optional purchase)



Push button

S2   S1

LED PROG

KNX BUS
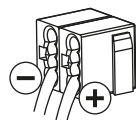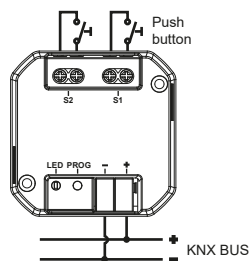
Figure 12

• Ceiling flush mount with spring clips



Push button

KNX BUS
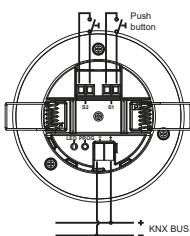
Figure 13

⚠ **Warning**

● Please disconnect power completely and read the entire instruction manualcarefully before installation.
● Installation and assembly of electrical equipment must be carried out by qualified electricians. Contact a qualified electrician in the event of fault or break down.
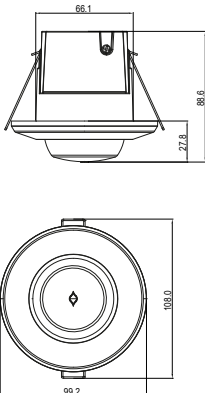● If using power tools, ensure that they are set to a low torque setting.

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## Column 2

### Dimensional Drawings

KNX Corridor Type Detector (Surface Mounted)



49
60
38
Ø105
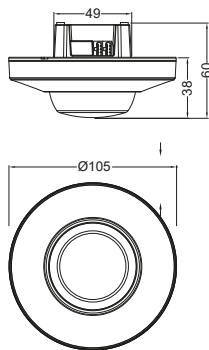
Detector with Surface Mount Box for WRKT32105NC (optional purchase)



Ø105
24.5

KNX Corridor Type Detector (Flush Mounted)



66.1
88.6
27.8
108.0
99.2
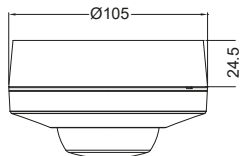
### Trouble Shooting

1. Unit will not function at all/Lights won't turn on
   - Check wiring to make sure that you have correct KNX Power at the unit.
   - Check the wiring from the unit to the source of power to make sure you have wired the unit correctly.
   - Check the ambient light control to see if it was set at your desired level.
2. Detector clicks but does not work
   - Check if lamps are broken.
   - Check if lamps are tight in lampholders.
3. Lights go on and off quickly
   - Ensure light and heat are not being reflected onto the detector. Check for white or reflective surfaces that may be causing the problem.
   - Note the detector is more sensitive in cold weather.
   - Make sure the sensor is not installed close to an air conditioner.
4. Lights stay on
   - Adjust time to minimum, and ensure unit is firmly fixed to a solid object with no moving branches etc. in field of view.
   - Ensure detector is not being activated by stray moving heat sources such as heating outlets.
5. Detector goes on under windy and rainy condition
   - Adverse weather conditions and temperature changes can result in unwanted activations.
   - This can be minimized by mounting in a protected location.
6. Maintenance and repair
   - Do not attempt to repair as this could invalidate warranty or result in personal injury.
   - Clean detector lens and outside casing with a damp cloth.

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## Column 3

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