Manuals+ — User Manuals Simplified.

CP electronics EBDHS-KNX KNX Presence Detectors Installation Guide

Contents

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Product Information

The product is the EBDHS-KNX, an installation guide for the WD715 Issue 7. It is a network device that requires installation by a competent technician with a good understanding of network devices. The unit is designed to work with other KNX devices such as detectors and switches from other manufacturers. It requires configuration using the ETS KNX software supplied by others.

Product Usage Instructions

1. Installation: The EBDHS-KNX should be installed by a competent technician who understands network devices.
2. Configuration: The unit requires configuration using appropriate software, specifically the ETS KNX software supplied by others.
3. Switch Configuration: The switches on the unit can be configured using the ETS software.
4. Low Voltage: The unit operates on low voltage only.
5. KNX Bus: The unit is compatible with the KNX bus.
6. Absence Detection Activation: Absence detection activation can be set using the ETS KNX software.
7. Compatibility: The unit is designed to work with other KNX devices, including detectors and switches from other manufacturers.
8. Sensor Alignment: The sensor head has 4 alignment marks that correspond to the 4 outer passive infrared sensors. These marks should be used to align the sensor with aisles and corridors for optimal detection characteristics.

9. Masking Shields: The detector includes two clip-on masking shields for precise masking of the detection shape. The shields can be used to narrow the detection diameter or create specific detection patterns. Ensure all infra-red (IR) programming is completed before affixing the masking shields to the detector.
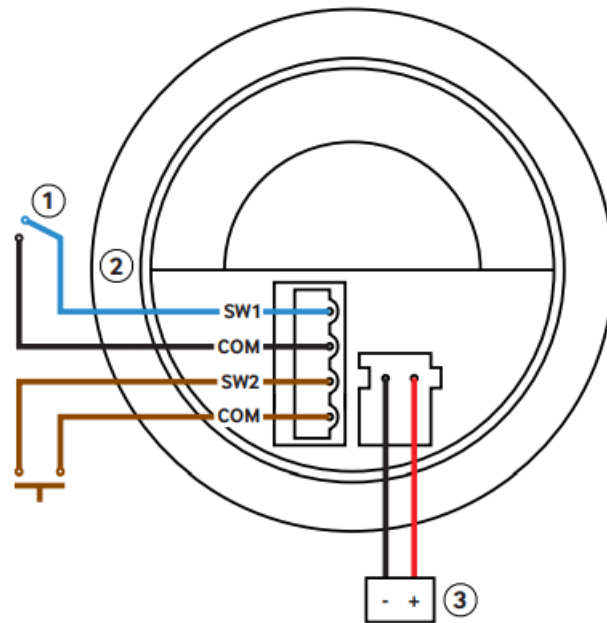
Attention

To be installed by competent technician with good understanding of network devices.

Dimensions (mm)
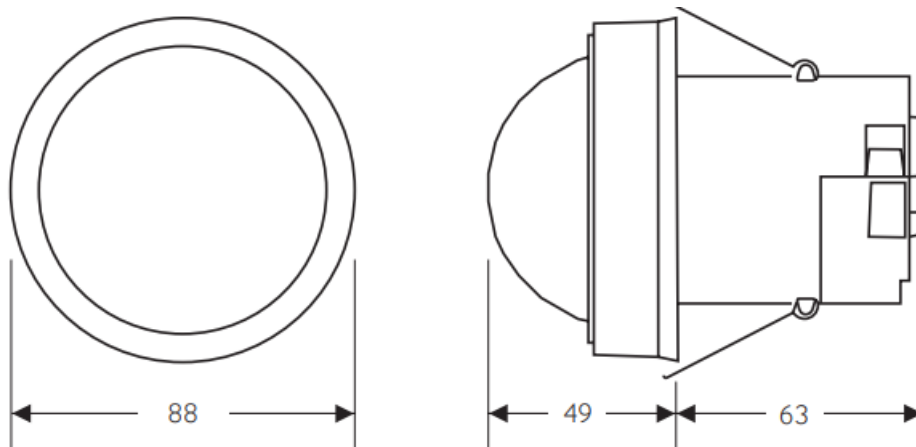
Wiring

**Key**

1. Switches, as configured in the ETS software
2. Low voltage only
3. KNX bus

Presence or absence detection

- The unit requires configuration by appropriate software.
- Absence detection activation and switch configurations are set using the ETS KNX software supplied by others.
- It is designed to work with other KNX devices such as other detectors and switches from other manufacturers.

Detection pattern
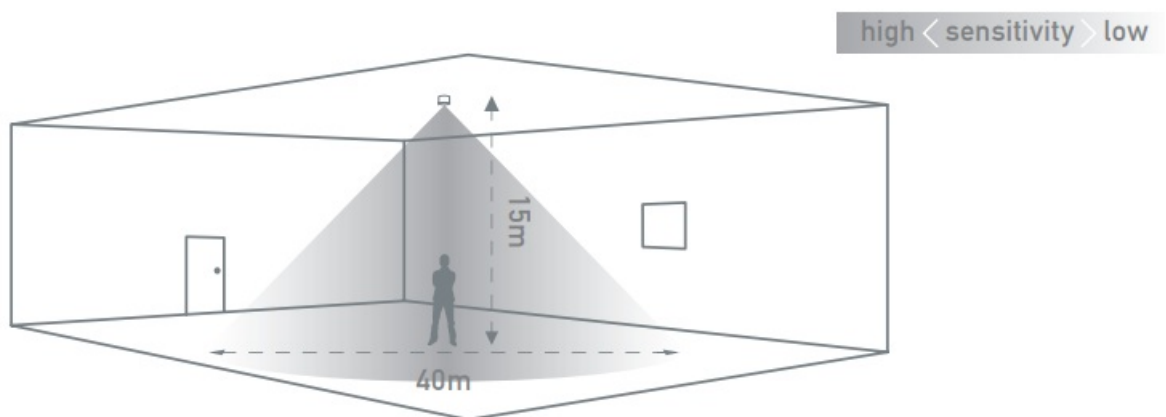
Walk across

Height		Range Diameter	
15m	40m
10m	26m
6m	16m
3m	9m

Walk towards

Height	Range Diameter
15m	30m
10m	20m
6m	12m
3m	8m

Alignment marks

The sensor head has 4 alignment marks. These correspond to the 4 outer passive infrared sensors under the lens. Use these marks to align with aisles and corridors to ensure the best detection characteristics.
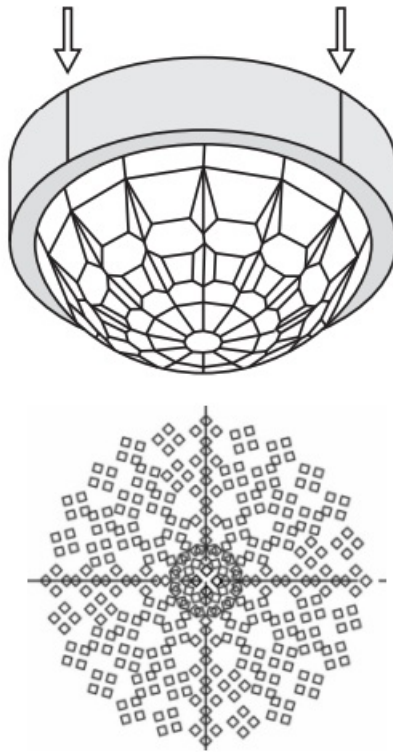
Masking shields

The detector includes two clip-on masking shields, enabling precise masking of the detection shape for aisles and corners as well as narrowing the detection diameter.

1. Lateral trim pattern for slot style detection.
2. Radial trim pattern for narrowing the detection diameter.

WARNING: Ensure all infra-red (IR) programming is completed before affixing the masking shields to the detector.

Masking shield application

Aisles
Trim the masks laterally to reduce the detection width for aisles.

1 2 3 4 4 3 2 1

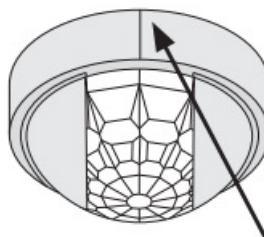| a	b	c	d	e
1	wa 18m x 40m wt 13.5 m x 30m	wa 11.7m x 26m wt 9m x 20m	wa 7.2m x 16m wt 5.4m x 12m	WA 4m x 9m wt 3.6m x 8m
2	wa 12.8m x 40m wt 9.6 m x 30m	wa 8.3m x 26m wt 6.4m x 20m	wa 5.1m x 16m wt 3.8m x 12m	WA 2.8m x 9m wt 2.5m x 8m
3	wa 8.8m x 40m wt 6.6 m x 30m	wa 5.7m x 26m wt 4.4m x 20m	wa 3.5m x 16m wt 2.6m x 12m	WA 1.9m x 9m wt 1.7m x 8m
4	wa 4.4m x 40m wt 3.3 m x 30m	wa 2.8m x 26m wt 2.2m x 20m	wa 1.7m x 16m wt 1.3m x 12m	wa 0.9m x 9m wt 0.8m x 8m

Key

- a. Trim line
- b. 15m Mounting height
- c. 10m Mounting height
- d. 6m Mounting height
- e. 3m Mounting height
  wa = walk across
  wt = walk towards

Install shields to the detector

Align trimmed shields with sensor head alignment marks and aisle.

Narrow detection

Trim the masks along radial lines to narrow the detection diameter.

1 2 3 4 5   5 4 3 2 1

a	b	c	d	e
1	wa 35.6m wt 26.7m	wa 23.1m wt 17.8m	wa 14.2m wt 10.6m	wa 8m wt 7.1m
2	wa 25.2m wt 18.9m	wa 16.3m wt 12.6m	wa 10m wt 7.5m	wa 5.6m wt 5m
3	wa 18m wt 13.5m	wa 11.7m wt 9m	wa 7.2m wt 5.4m	wa 4m wt 3.6m
4	wa 12.8m wt 9.6m	wa 8.3m wt 6.4m	wa 5.1m wt 3.8m	wa 2.8m wt 2.5m
5	wa 8.8m wt 6.6m	wa 5.7m wt 4.4m	wa 3.5m wt 2.6m	wa 1.9m wt 1.7m

Key

- a. Trim line
- b. 15m Mounting height
- c. 10m Mounting height
- d. 6m Mounting height
- e. 3m Mounting height
  - wa = walk across
  - wt = walk towards

Install shields to the detector

Align trimmed shields with sensor head alignment marks and aisle.
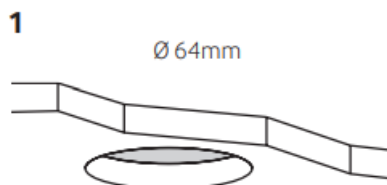
Installation

This device is designed to be flush ceiling-mounted.

- Do not site the unit where direct sunlight might enter the sensor.
- Do not site the sensor within 1m of any lighting, forced air heating or ventilation.
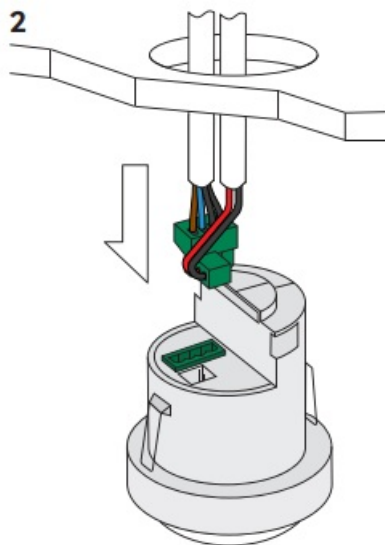- Do not fix the sensor to an unstable or vibrating surface.

Create cut out
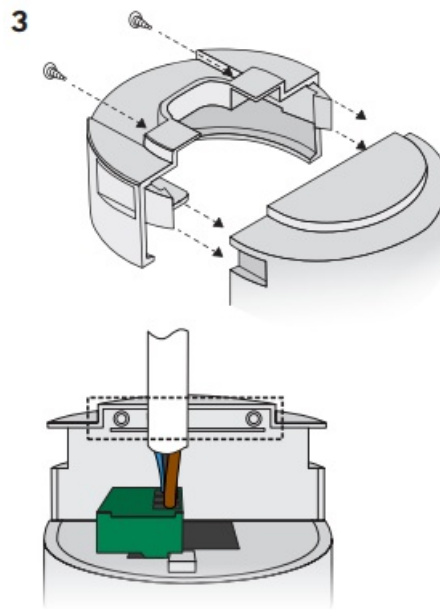
Cut a 64mm diameter hole in the ceiling.

Wire in plugs & connect to detector

Wire in plug/s, using the wiring diagram on page 2 as a guide. Connect the plug/s to the detector.

Clamp cable

Continue tightening the screws until the clamp bar snaps out and is tightly engaged against the cable/s. The cable clamp must clamp the outer sheath only

Install detector

- Bend the springs up and push detector through hole in ceiling. When fully inserted the springs snap back to hold the device in place.
- To avoid injury, take care when bending springs.
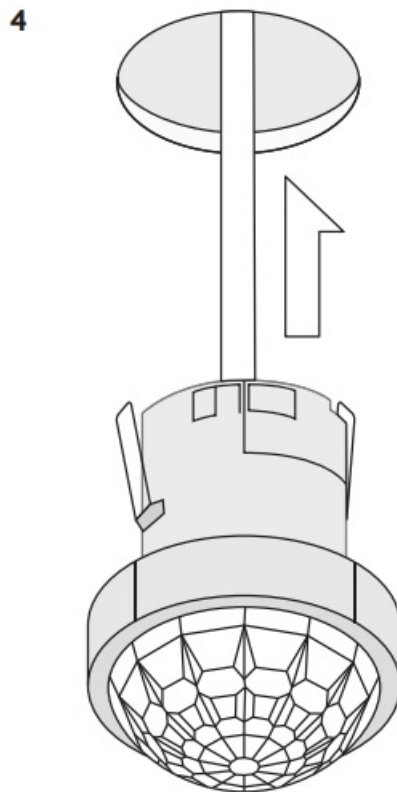
Technical Data

Part code	EBDHS-KNX
Weight	0.200kg
Supply voltage DC	30 VDC over KNX bus
Current consumption	6.4mA
Terminal capacity	KNX: 1.2mm² over KNX connector Switch input: 2.5mm²
Working temperature range	-10 to 35ºC
Humidity	5 to 95% non-condensing
Material (casing)	Flame retardant ABS and PC/ABS
Insulation class	2
IP rating	40
Compliance	EMC-2014/30/EU, LVD-2014/35/EU

Accessories & associated products

Part Number | Artikelnummer | Referencia | Referéncia | Référence | Codice | Artikelnummer | Номер	Description | Beschreibung | Descripción | Descripção | Description | Descrizione | Omschrijving | Описание
DBB	Surface mounting box | Deckenaufbaudose | Caja para montaje en superficie | Caixa para superficie | Accessoire pour montage en saillie | Scatola a superficie | Opbouwdoos | Коробка поверхностного монтажа
DBB-EXT	Surface mount back box extender | Erweiterung für Deckenaufbaudose | Extensión para montaje en superficie | Extensor de caixa de montagem em superfície | Extension d'accessoire pour montage en saillie | Estensore per scatola per montaggio a superficie | Verhogingsring | Удлинитель коробки поверхностного монтажа
EBD-ENCIP1	Pre-drilled 64mm hole IP65 detector enclosure | Vorgebohrtes 64mm-Aussparung für den IP 65 Sensor | Carcasa IP65 para detectores diámetro 64 mm | Boîtier étanche IP65 pré-percé d'un diamètre de 64 mm | Boîtier étanche IP65 pré-percé d'un diamètre de 64 mm | Scatola IP65 con foro di 64 mm | IP65 behuizing met voorgeboorde 64mm sparing | Предварительно просверленный корпус IP65 с отверстием 64 мм
EXD-HSC	Extended wiring housing | Erweiterter Verdrahtungsraum | Ampliación de alojamiento de cables | Extensor adicional para cabos | Enveloppe allongée pour câblage | Estensore per i cavi | Verlengde behuizing voor bedrading | Удлиненный корпус проводки
UHS5	Compact, programming/commissioning handset | Kompakte Fernbedienung und Einstellhilfe | Mando para programación y puesta en marcha | Controle remoto para ajustes/commisionamento | Combiné compact de programmation / mise en service | Telecomando per programmazione/messa in servizio | Compacte configuratie handset | Компактный пульт для программирования / ввода в эксплуатацию
UHS7	Compact, user handset | Kompakte Endanwender Fernbedienung | Mando de usuario | Controle para usuário | Combiné compact de contrôle pour utilisateur | Telecomando per utente | Compacte handset gebruikers | Компактная трубка пользователя

Due to our policy of continual product improvement CP Electronics reserves the right to alter the specification of this product without prior notice.

bsi.	ISO 9001 Quality Management	ISO 14001 Environmental Management	OHSAS 18001 Occupational Health and Safety Management
	FM 45789	EMS 534520	OHS 642036

ESTA
energy services and technology association

WD715 Issue 7 Installation Guide, EBDHS-KNX

cpelectronics.co.uk/cp/wta

Documents / Resources

CP electronics EBDHS-KNX KNX Presence Detectors [pdf] Installation Guide
EBDHS-KNX KNX Presence Detectors, EBDHS-KNX, KNX Presence Detectors, Presence Detectors, Detectors

References

- **Home | Legrand**
- **Home | Legrand**
- **Home | Legrand**
- **CP Electronics | Brands | Legrand United Kingdom**

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