EBDSPIR

This compact ceiling mounted PIR presence detector provides automatic control lighting, heating and ventilation loads.

The PIR sensor can be mounted either flush into a ceiling tile or using a surface mounting box. The low profile design means the unit can be mounted in a narrow ceiling void. No external control boxes are required as the unit is self contained.

Key Product Features

Low profile design
Self contained unit
Pluggable

Switching Detectors

Basic version functionality	B
Switching with lux level sensing (manual adjustment)	
Time delay function (manual adjustment)	
Presence detection switching	

PRM version functionality (in addition to Basic)	PRM
Switching with lux level sensing (IR handset adjustment)	
Active photocell	
Time delay function	
Presence detection switching	
Absence detection switching	
Programmable via IR handset	
Adjustable detection sensitivity	
On/off override via optional IR handset	
Manual on/off override via switch input	

Dimming Detectors

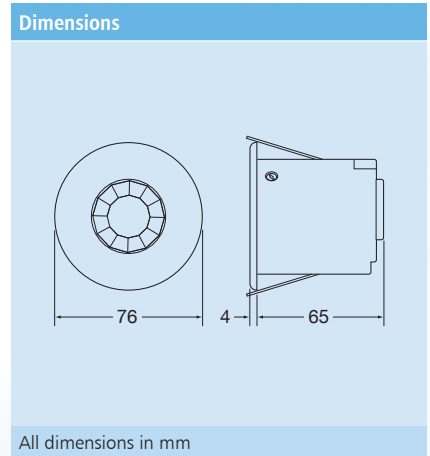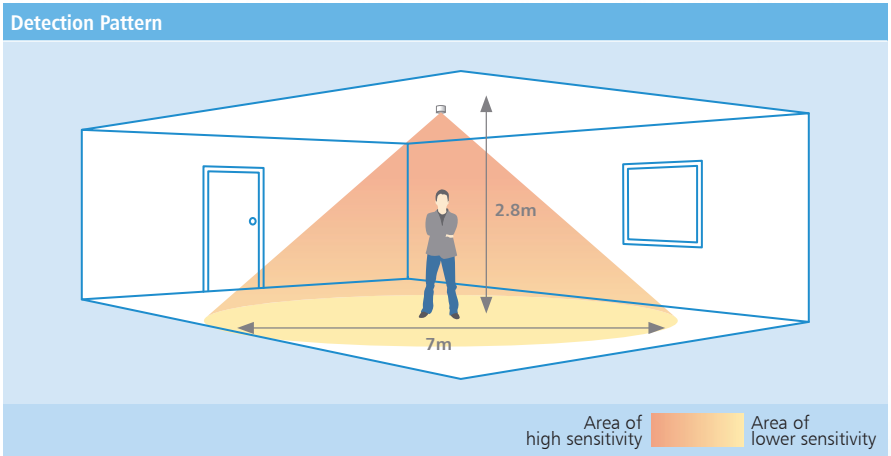| DD and AD version functionality (in addition to PRM)	
Dimming functionality	
Two channel flexibility	
Step-down illuminance	
Maintained illuminance (daylight harvesting)	
Scene setting and recall	
Burn in feature for fluorescent tubes	
Control of DALI, DSI or 1–10V loads depending on product	
Integral relay to reduce parasitic power	
Suitable for all lighting types	
Manual dimming with IR	
Manual dimming with switch inputs	

Selected switching detectors are available with the following options
Low voltage 12–24V AC/DC
Voltage free Contact
2 channel
2 channel normally closed for fail safe applications
Contact our sales office for the variants available

i **Learn more about detector types on pages 10–14**

KNX Selected KNX versions also available. See page 45   minus30 range Selected Minus30 cold store versions also available. See page 42

Detection Pattern

2.8m

7m

Area of high sensitivity | Area of lower sensitivity

Dimensions

76   4   65

All dimensions in mm

	Order Code	Description	R	I	F	CF	LED	Time Delay
B	EBDSPIR	Compact ceiling mounted PIR presence detector with lux level sensing and time delay function. Manual adjustment only	8A	8A	6A	3A	3A	10s–30m
	EBDSPIR-L3	As EBDSPIR plus pre-wired with 3m lead. Manual adjustment only	8A	8A	6A	3A	3A	10s–30m
	EBDSPIR-IP	As EBDSPIR plus suitable for damp environments (IP55). Manual adjustment only	8A	8A	6A	3A	3A	10s–30m
PRM	EBDSPIR-PRM	Compact ceiling mounted PIR presence/absence detector with lux level sensing, time delay function and infrared override	10A	10A	10A	10A	10A	10s–99m
	EBDSPIR-PRM-L3	As EBDSPIR-PRM plus pre-wired with 3m lead	10A	10A	10A	10A	10A	10s–99m
	EBDSPIR-PRM-IP	As EBDSPIR-PRM plus suitable for damp environments (IP55)	10A	10A	10A	10A	10A	10s–99m
	EBDSPIR-PRM-LV	Compact ceiling mounted PIR presence/absence detector 12–24V AC/DC	10A	8A	6A	3A	3A	10s–99m
	EBDSPIR-PRM-VFC	Compact ceiling mounted PIR presence/absence detector with volt free contact*	6A	6A	6A	3A	3A	10s–99m
	EBDSPIR-PRM-2CH	Compact ceiling mounted PIR presence/absence detector, 2-channel	6A	6A	6A	6A	6A	10s–99m
	EBDSPIR-DD	Compact ceiling mounted PIR presence/absence detector with Direct Dim and time delay function (up to 20 ballasts). DALI/DSI	10A	10A	10A	10A	10A	10s–99m
	EBDSPIR-DD-LV	Compact ceiling mounted PIR presence/absence detector with Direct Dim DALI/DSI 12–24V AC/DC	10A	8A	6A	3A	3A	10s–99m
	EBDSPIR-AD	Compact ceiling mounted PIR presence/absence detector with 1–10V analogue dimming output (up to 10 ballasts)	10A	10A	10A	10A	10A	10s–99m

R = Resistive   **I** = Incandescent   **F** = Fluorescent   **CF** = Compact Fluorescent

Accessories	Description
UNLCDHS	Professional commissioning LCD programming handset. See page 16
UHS5	Commissioning handset. See page 15
UHS7	User handset. See page 15
DBB	Surface mount back box
DBB-EXT	Surface mount back box extender
EBD-ENCIP1	Detector enclosure IP65

* Please supply voltage requirement

KNX Selected KNX versions also available. See page 45   Selected Minus30 cold store versions also available. See page 42

See pages 10–14 for our **Presence Detector technology guide**

EBDSM

IP54

This range of surface mounted PIR presence detectors are perfect for simple attachment when flush mounting is not possible.

The EBDSM provides automatic control for lighting, heating and ventilation loads. As the EBDSM range has no external control boxes installation time is dramatically reduced.

Key Product Features

Self contained unit
Easy to install via a back plate
IP54 rated

Switching Detectors

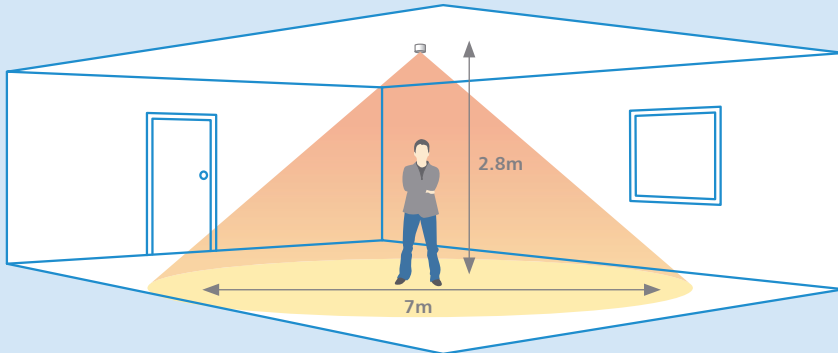| PRM version functionality	PRM
Switching with lux level sensing (IR handset adjustment)	
Active photocell	
Time delay function	
Presence detection switching	
Absence detection switching	
Programmable via IR handset	
Adjustable detection sensitivity	
On/off override via optional IR handset	
Manual on/off override via switch input	

Dimming Detectors

DD and AD version functionality (in addition to PRM)	
Dimming functionality	
Two channel flexibility	
Step-down illuminance	
Maintained illuminance (daylight harvesting)	
Scene setting and recall	
Burn in feature for fluorescent tubes	
Control of DALI, DSI or 1—10V loads depending on product	
Integral relay to reduce parasitic power	
Suitable for all lighting types	
Manual dimming with IR	
Manual dimming with switch inputs	

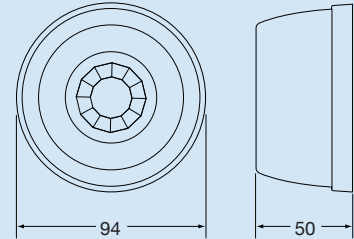*ⓘ Learn more about detector types on pages 10–14*

Detection Pattern

2.8m

7m

Area of high sensitivity
Area of lower sensitivity

Dimensions

94

50

All dimensions in mm

	Order Code	Description	Load Rating at 230VAC					Time Delay
			R	I	F	CF	LED	
PRM	EBDSM-PRM	Surface mounted PIR presence/absence detector with lux level sensing, time delay function and infrared override	10A	10A	10A	10A	10A	10s–99m
	EBDSM-DD	Surface mounted PIR presence/absence detector with Direct Dim and time delay function (up to 20 ballasts). DALI/DSI	10A	10A	10A	10A	10A	10s–99m
	EBDSM-AD	Surface mounted absence/presence detector with 1–10V analogue dimming output (up to 10 ballasts)	10A	10A	10A	10A	10A	10s–99m

R = Resistive   **I** = Incandescent   **F** = Fluorescent   **CF** = Compact Fluorescent

Accessories	Description
UNLCDHS	Professional commissioning LCD programming handset. See page 16
UHS5	Commissioning handset. See page 15
UHS7	User handset. See page 15

EBMHS

This small, unobtrusive, but highly capable EBMHS detector is supplied pre-wired and with a connector that snap-fits into the power supply unit (PSU) for ease of installation, and comes with a flush mounting ring for easy fitting into the ceiling.

Three models are available: premium (PRM), direct dim (DD), and analogue dim (AD) all of which will control a wide range of luminaires. The direct dim variant controls DALI or DSI digital dimming ballasts whilst the analogue dim variant controls 1–10V dimming ballasts.

Key Product Features

Ultra compact design
High sensitivity head for increased detection range
Detector head leads are available in 300mm and 1m lengths
IP40 rated

Switching Detectors

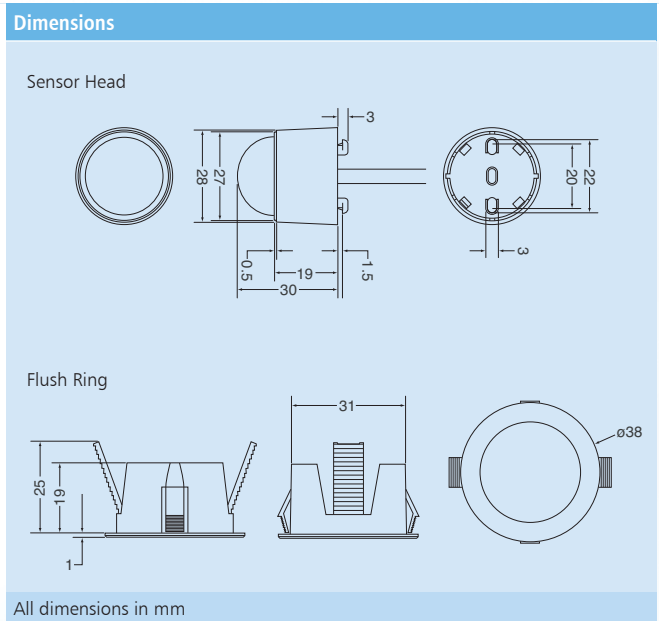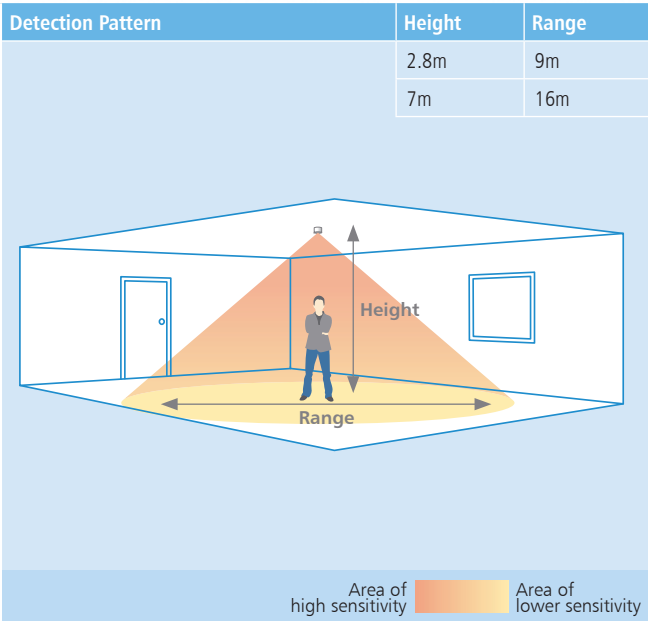| PRM version functionality	PRM
Switching with lux level sensing (IR handset adjustment)	
Active photocell	
Time delay function	
Presence detection switching	
Absence detection switching (standard PSU only)	
Programmable via IR handset	
Adjustable detection sensitivity	
On/off override via optional IR handset	
Manual on/off override via switch input	

Dimming Detectors

DD and AD version functionality (in addition to PRM)	
Dimming functionality	
Two channel flexibility	
Step-down illuminance	
Maintained illuminance (daylight harvesting)	
Scene setting and recall	
Burn in feature for fluorescent tubes	
Control of DALI, DSI or 1–10V loads depending on product	
Integral relay to reduce parasitic power	
Suitable for all lighting types	
Manual dimming with IR	
Manual dimming with switch inputs (standard PSU only)	

Learn more about detector types on pages 10–14

Detection Pattern	Height	Range
	2.8m	9m
	7m	16m

Area of high sensitivity
Area of lower sensitivity

Dimensions

Sensor Head

Flush Ring

All dimensions in mm

	Order Code	Description	Load Rating at 230VAC					Time Delay
			R	I	F	CF	LED	
PRM	EBMHS-PRM-SA-C	Miniature PIR presence/absence detector with lux level sensing and c/with pre-wired power supply unit (PSU)	6A	6A	6A	3A	3A	10s–99m
	EBMHS-DD-SA-C	Miniature PIR presence/absence detector with Direct Dim DALI/DSI c/with pre-wired PSU (up to 10 ballasts)	6A	6A	6A	3A	3A	10s–99m
	EBMHS-AD-SA-C	Miniature PIR presence/absence detector with 1–10V analogue dimming output c/with pre-wired PSU (up to 10 ballasts)	6A	6A	6A	3A	3A	10s–99m

R = Resistive   **I** = Incandescent   **F** = Fluorescent   **CF** = Compact Fluorescent

What's in the Box
Miniature PIR sensor head complete with 300mm lead Power supply unit Miniature PIR head flush ring

Accessories	Description
UNLCDHS	Professional commissioning LCD programming handset. See page 16
UHS5	Commissioning handset. See page 15
UHS7	User handset. See page 15

EBMPIR-MB

EBMPIR-MB-PRM-110

IP65

The EBMPIR-MB series of miniature batten mount PIR presence detectors provide automatic control of lighting loads. They have been specifically designed for mounting onto a batten style luminaire. The units are IP65 rated and are therefore suitable for outdoor use, as well as wet and damp environments.

Three models are available: premium (PRM), direct dim (DD), and analogue dim (AD) all of which will switch a wide range of luminaires. The direct dim variant controls DALI or DSI digital dimming ballasts whilst the analogue dim variant controls 1–10V dimming ballasts.

Key Product Features

Integrated unit – no separate power supply required
Retrofit solution
IP65 rated
Suitable for a wide range of luminaires
Supplied with comprehensive fitting kit

Switching Detectors

PRM version functionality	PRM
Switching with lux level sensing (IR handset adjustment)	
Active photocell	
Time delay function	
Presence detection switching	
Programmable via IR handset	
Adjustable detection sensitivity	
On/off override via optional IR handset	

Dimming Detectors
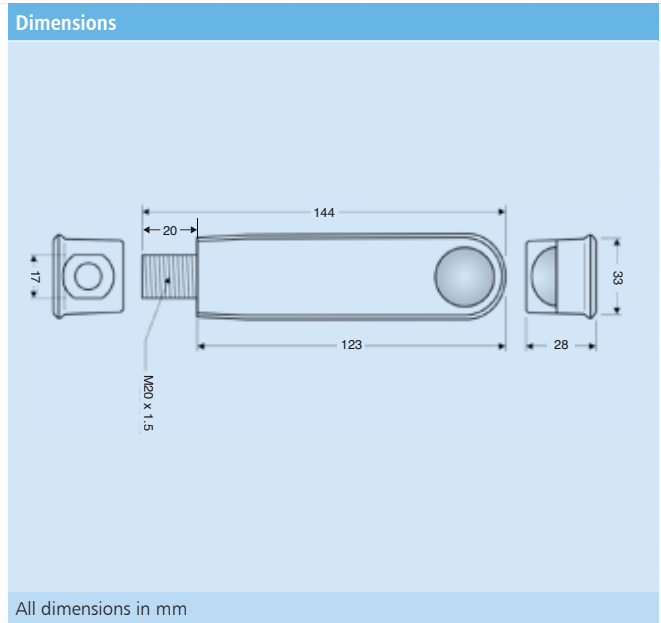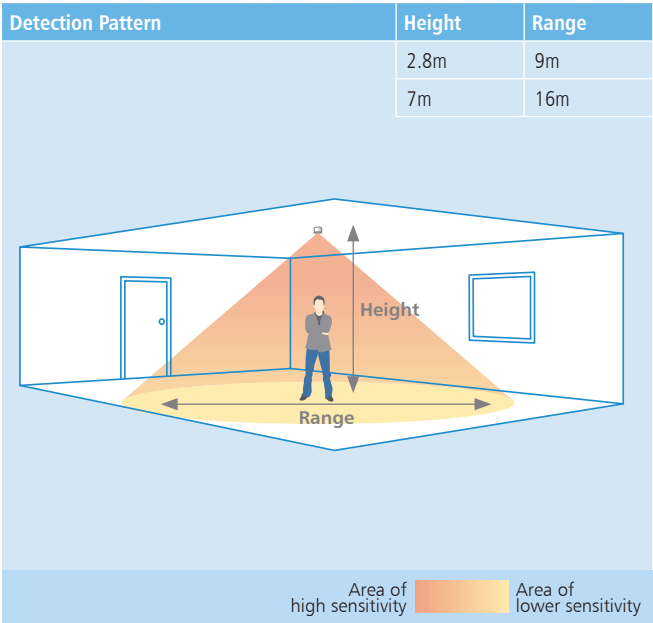
DD and AD version functionality (in addition to PRM)	
Dimming functionality	
Step-down illuminance	
Maintained illuminance (daylight harvesting)	
Scene setting and recall	
Burn in feature for fluorescent tubes	
Control of DALI, DSI or 1–10V loads depending on product	
Suitable for all lighting types	
Manual dimming with IR	

Detection Pattern	Height	Range
	2.8m	9m
	7m	16m

Area of high sensitivity
Area of lower sensitivity

Dimensions

144
20
17
M20 x 1.5
123
33
28

All dimensions in mm

	Order Code	Description	Load Rating at 230VAC					Time Delay
			R	I	F	CF	LED	
PRM	EBMPIR-MB-PRM	Batten mount PIR presence detector with lux level sensing	2A	2A	2A	2A	2A	10s–99m
	EBMPIR-MB-PRM-110	Batten mount PIR presence detector with lux level sensing 110V	2A	2A	2A	2A	2A	10s–99m
	EBMPIR-MB-DD	Batten mount PIR presence detector with Direct Dim DALI/DSI (up to 10 ballasts)	N/A	N/A	N/A	N/A	N/A	10s–99m
	EBMPIR-MB-AD	Batten mount PIR presence detector with 1–10V analogue dimming output (up to 4 ballasts)	2A	2A	2A	2A	2A	10s–99m

Bulk pack (BP) options available

R = Resistive   **I** = Incandescent   **F** = Fluorescent   **CF** = Compact Fluorescent

What's in the Box
Miniature PIR integrated power supply unit
Silicon washer
M20 Nut
IP spacer with silicon coating
5° spacer
5° washer

Accessories	Description
UNLCDHS	Professional commissioning LCD programming handset. See page 16
UHS5	Commissioning handset. See page 15
UHS7	User handset. See page 15

EBMINT

EBMINT fitted to louvre

PATENTED DESIGN

IP40

The EBMINT series of miniature PIR presence detector is designed to be retrofitted to luminaires quickly and effectively. It is specifically designed for mounting onto a lamp or louvre (using the louvre fitting bracket).

Three models are available to suit lighting control requirements: Premium (switched), Direct Dim up to 4 dimming ballasts (DALI or DSI) and analogue dim (1–10V). All are suitable for use with high efficiency lamps such as LED, linear fluorescent and compact fluorescent.

Key Product Features

Integrated unit – no separate power supply required
Sensitive movement detection up to 7 metres
Fixings for T5, T8 battens and louvre reflectors
Easy to install – no specialist tools required
Quick to set up via infrared handset control
IP40 rated

Switching Detectors

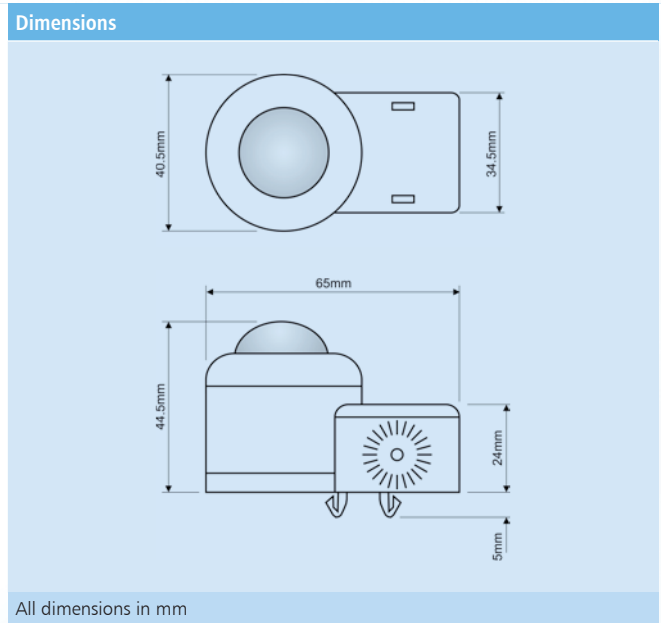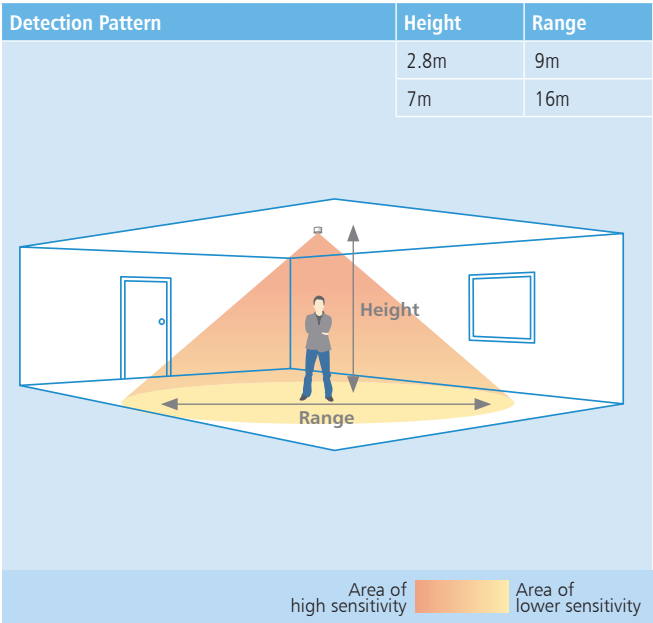| PRM version functionality	PRM
Switching with lux level sensing (IR handset adjustment)	
Active photocell	
Time delay function	
Presence detection switching	
Programmable via IR handset	
Adjustable detection sensitivity	
On/off override via optional IR handset	

Dimming Detectors

DD and AD version functionality (in addition to PRM)	
Dimming functionality	
Step-down illuminance	
Maintained illuminance (daylight harvesting)	
Scene setting and recall	
Burn in feature for fluorescent tubes	
Control of DALI, DSI or 1–10V loads depending on product	
Suitable for all lighting types	
Manual dimming with IR	

Detection Pattern	Height	Range
	2.8m	9m
	7m	16m

Area of high sensitivity | Area of lower sensitivity

Dimensions

40.5mm · 34.5mm · 65mm · 44.5mm · 24mm · 5mm

All dimensions in mm

	Order Code	Description	Load Rating at 230VAC					Time Delay
			R	I	F	CF	LED	
PRM	EBMINT-PRM	Integrated PIR presence detector with lux level sensing, time delay function and infrared override	2A	2A	2A	2A	2A	10s–99m
	EBMINT-DD	Integrated PIR presence detector with Direct Dim and time delay function (up to 4 ballasts). DALI/DSI	2A	2A	2A	2A	2A	10s–99m
	EBMINT-AD	Integrated 1–10V PIR presence detector for 1–10V analogue dimming output (up to 4 ballasts)	2A	2A	2A	2A	2A	10s–99m

R = Resistive   **I** = Incandescent   **F** = Fluorescent   **CF** = Compact Fluorescent

What's in the Box

Miniature PIR integrated power supply unit
T5 clip
T8 clip
Louvre clip
1m silicon lead

Accessories	Description
UNLCDHS	Professional commissioning LCD programming handset. See page 16
UHS5	Commissioning handset. See page 15
UHS7	User handset. See page 15

EBDHS

PATENTED DESIGN

IP65

EBDHS is an increased performance PIR presence detector developed for lighting control in areas with demanding spaces and increased mounting heights or where higher sensitivity is required.

Three models are available: premium (PRM), direct dim (DD), and analogue dim (AD) all of which will switch a wide range of luminaires. The direct dim variant controls DALI or DSI digital dimming ballasts whilst the analogue dim variant controls 1–10V dimming ballasts.

Key Product Features

Ground breaking detection range up to 40m (dependent on location)
Mounting height up to 20m
Unique lens technology – high sensitivity within the detection range
Ideal for high bay applications
Adjustable masking shields to tailor detection zones
Verify feature – reduce false triggering by ensuring detection from more than one of the internal sensors
IP65 rated

Switching Detectors

PRM version functionality	PRM
Switching with lux level sensing (IR handset adjustment)	
Active photocell	
Time delay function	
Presence detection switching	
Absence detection switching	
Programmable via IR handset	
Adjustable detection sensitivity	
On/off override via optional IR handset	
Manual on/off override via switch input	

Dimming Detectors

DD and AD version functionality (in addition to PRM)	
Dimming functionality	
Two channel flexibility	
Step-down illuminance	
Maintained illuminance (daylight harvesting)	
Scene setting and recall	
Burn in feature for fluorescent tubes	
Control of DALI, DSI or 1–10V loads depending on product	
Integral relay to reduce parasitic power	
Suitable for all lighting types	
Manual dimming with IR	
Manual dimming with switch inputs	

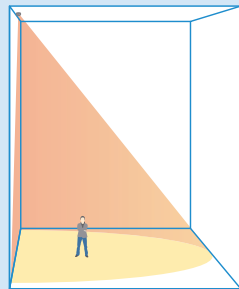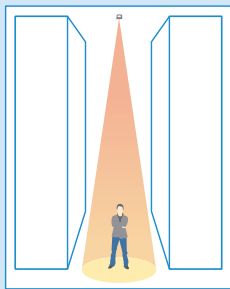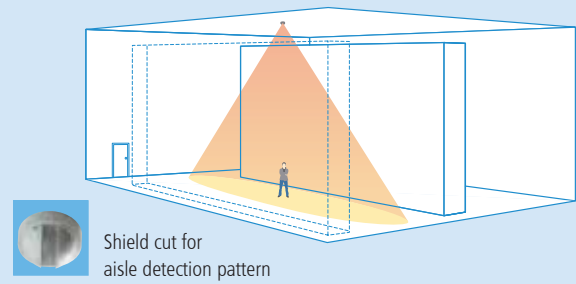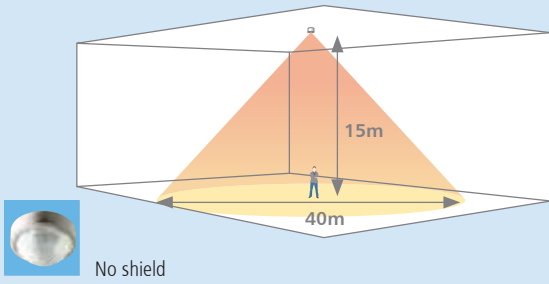| Selected switching detectors are available with the following options |
|---|
| Low voltage 12–24V AC/DC |
| Voltage free contact |
| 2 channel |
| 2 channel normally closed for fail safe applications |
| Contact our sales office for the variants available |

ⓘ *Learn more about detector types on pages 10–14*

PROGRAM FROM GROUND LEVEL
The IR transmitting and receiving technology in our handsets and detectors has been carefully designed to allow programming from ground level.
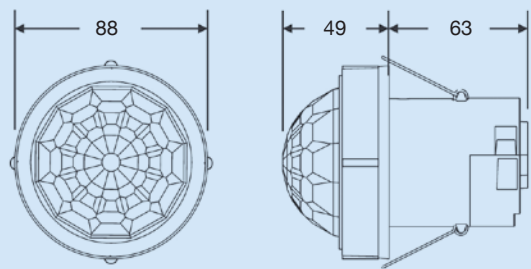
KNX Selected KNX versions also available. See page 45

minus30 range Selected Minus30 cold store versions also available. See page 43

Please call **+44 (0)333 900 0671** or visit **www.cpelectronics.co.uk** for more information

Detection Pattern

15m
40m

No shield

Shield cut for
aisle detection pattern

Shield cut for focused
detection pattern

Shield cut for end of
aisle detection pattern

Area of high sensitivity
Area of lower sensitivity

Dimensions

88
49
63

All dimensions in mm

For detailed detection information please refer to the product user guide on our website.

	Order Code	Description	Load Rating at 230VAC					Time Delay
			R	I	F	CF	LED	
PRM	EBDHS-PRM	High sensitivity PIR presence/absence detector	10A	10A	10A	10A	10A	10s–99m
	EBDHS-DD	High sensitivity PIR presence/absence detector with Direct Dim DALI/DSI (up to 20 ballasts)	10A	10A	10A	10A	10A	10s–99m
	EBDHS-AD	High sensitivity PIR presence/absence detector with 1–10V analogue dimming output (up to 10 ballasts)	10A	10A	10A	10A	10A	10s–99m

R = Resistive   **I** = Incandescent   **F** = Fluorescent   **CF** = Compact Fluorescent

Accessories	Description
UNLCDHS	Professional commissioning LCD programming handset. See page 16
UHS5	Commissioning handset. See page 15
UHS7	User handset. See page 15
EBDHS-DBB-WBRKT	Wall mounting bracket for EBDHS series
DBB	Surface mount back box
DBB-EXT	Surface mount back box extender

KNX® Selected KNX versions also available. See page 45   minus30 range Selected Minus30 cold store versions also available. See page 43

EBDHS-MB

Shields can be cut to suit the detection pattern required

PATENTED DESIGN

IP65

The EBDHS-MB luminaire mount high bay PIR presence detector range provides exceptionally sensitive and long range detection. The detectors are ideal for high bay lighting control in areas with demanding spaces and increased mounting heights such as warehouses and factories, and are simple to retrofit to commercial luminaires and basic battens.

Three models are available: premium (PRM), direct dim (DD), and analogue dim (AD) all of which will switch incandescent, fluorescent, compact fluorescent and LED lighting. The direct dim variant controls DALI or DSI digital dimming ballasts whilst the analogue dim variant controls 1–10V dimming ballasts.

Key Product Features

Ground breaking detection range up to 40m (dependent on location)
Easy to retrofit to commercial luminaires and basic battens
Mounting height up to 20m
Unique lens technology – high sensitivity within the detection range
IP65 rated
Ideal for high bay applications
Adjustable masking shields to tailor detection zones
Quick install via M20 gland
All models come pre-wired with a 1m silicon cable
Supplied with two masking shields and a silicone ingress protection gasket

Dimming Detectors

DD and AD version functionality (in addition to PRM)
Dimming functionality
Two channel flexibility
Step-down illuminance
Maintained illuminance (daylight harvesting)
Scene setting and recall
Burn in feature for fluorescent tubes
Control of DALI, DSI or 1–10V loads depending on product
Integral relay to reduce parasitic power
Suitable for all lighting types

ℹ️ *Learn more about detector types on pages 10–14*

Switching Detectors

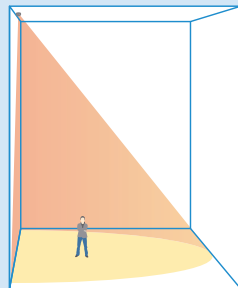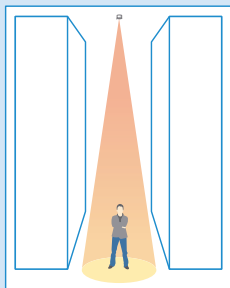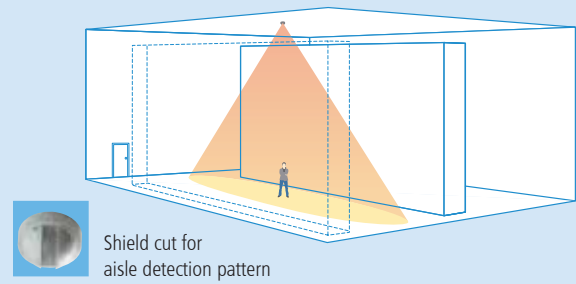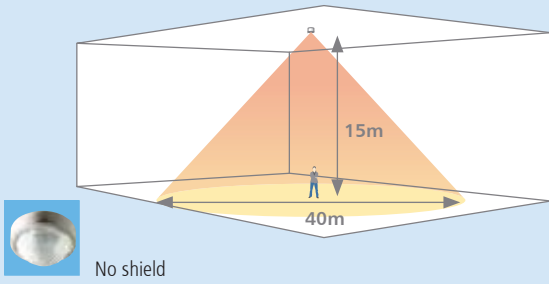| PRM version functionality	PRM
Switching with lux level sensing (IR handset adjustment)	
Active photocell	
Time delay function	
Presence detection switching	
Programmable via IR handset	
Adjustable detection sensitivity	
On/off override via optional IR handset	
Verify feature – reduce false triggering by ensuring detection from more than one of the internal sensors	

PROGRAM FROM GROUND LEVEL

The IR transmitting and receiving technology in our handsets and detectors has been carefully designed to allow programming from ground level.
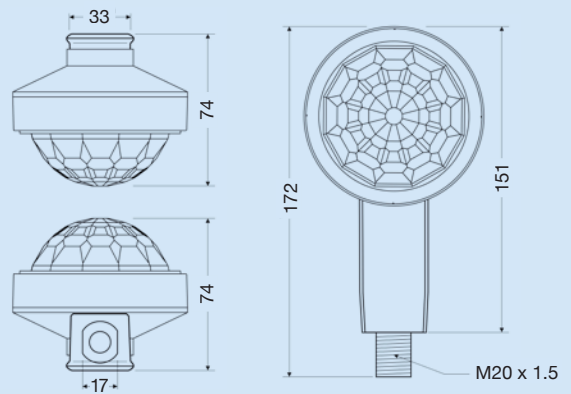
Selected Minus30 cold store versions also available. See page 43

Detection Patterns

No shield

15m
40m

Shield cut for aisle detection pattern

Shield cut for focused detection pattern

Shield cut for end of aisle detection pattern

Area of high sensitivity

Area of lower sensitivity

Dimensions

33
74
17
172
74
151
M20 x 1.5

All dimensions in mm

For detailed detection information please refer to the product user guide on our website.

	Order Code	Description	Load Rating at 230VAC					Time Delay
			R	I	F	CF	LED	
PRM	EBDHS-MB-PRM	Luminaire mount high bay PIR presence detector with lux level sensing, time delay and infrared override	2A	2A	2A	2A	2A	10s–99m
	EBDHS-MB-DD	Luminaire mount high bay PIR presence detector with Direct Dim DALI/DSI (up to 10 ballasts)	2A	2A	2A	2A	2A	10s–99m
	EBDHS-MB-AD	Luminaire mount high bay PIR presence detector for 1–10V analogue dimming output (up to 4 ballasts)	2A	2A	2A	2A	2A	10s–99m

R = Resistive   **I** = Incandescent   **F** = Fluorescent   **CF** = Compact Fluorescent

What's in the Box
Power supply unit Silicon washer M20 Nut IP spacer with silicon coating 5° spacer 5° washer

Accessories	Description
UNLCDHS	Professional commissioning LCD programming handset. See page 16
UHS5	Commissioning handset. See page 15
UHS7	User handset. See page 15