EASYZAPP PIR OCCUPANCY SWITCHES AND DIMMING CONTROLS

- Versions for standard ceiling mounting

- Versions for high bay mounting

- 4 lens types to maximise detection in specific areas

- Remotely programmable adjustments

- Versions suitable for DALI ballasts **DALI**

- Versions suitable for 1-10V ballasts

- Manufactured in the UK

- 5 YEAR WARRANTY

MADE IN THE UK

ENERGY SAVING

5 YEAR WARRANTY

DANLERS

Controls for Lighting & HVAC

www.danlers.co.uk

EASYZAPP REMOTELY PROGRAMMABLE CONTROLS

The DANLERS range of EasyZAPP passive infra-red (PIR) occupancy switches is designed for the automatic control of lighting or other connected loads. The products are set up or adjusted remotely using a free app on an Android phone or tablet. EasyZAPP products work as presence detector switches and can be adjusted for settings such as photocell override, time lag and maintained lux levels (dimmable versions only).

The phone or tablet can also be used as a remote control on/off override, or to batch configure a number of EasyZAPP controls at the same time. The products are straightforward to install and generally can make use of existing wiring, making them suitable for either retrofit or new installations.

"SWITCHING ONLY" VERSIONS

These versions are designed for simply switching the lighting load or other load on or off. All the "switching only" versions have an adjustable photocell override which can inhibit the lights from switching on if somebody enters an area which already has sufficient ambient light. Each control also has a switching relay capable of switching up to 2 amps (500W) LED lamps and fittings or 6 amps (1500W) of most types of load (minimum load 2W).

"DIMMABLE" VERSIONS

This range is designed for controlling DALI broadcast or 1-10V dimmable ballasts. They work as presence detector switches with daylight linked dimming, and can be adjusted for settings such as photocell and time lag. Each control also has a switching relay, as above, for switching an optional other load.

TIME LAG FUNCTION

There is a time lag function on all EasyZAPP controls. The time lag is the time that must elapse with no movement detected before the PIR occupancy switch will automatically switch off. On EasyZAPP products the time lag is adjustable from 10 seconds to 24 hours in 1 second increments.

BLUETOOTH SMART SIGNAL RANGE

The signal from the EasyZAPP app on a mobile phone or tablet is sent to an EasyZAPP device by Bluetooth Smart communication. The signal range is up to 100 metres and does not require line of sight.

BATCH PROGRAMMING

All EasyZAPP controls have a 'Batch Configure' feature whereby all EasyZAPP products within Bluetooth Smart signal range can be programmed with the same control settings - saving time and money.

PASSWORD PROTECTION

All EasyZAPP controls include optional password protection, to avoid unwanted adjustment of the settings.

SUITABLE FOR LED LAMPS AND FITTINGS

As with all DANLERS PIR occupancy switches, these products include a relay with special high surge contact material, so they are suitable for use with LED lamps and fittings.

Also available: BATTEN MOUNT VERSIONS

All EasyZAPP surface mounted and high bay controls are available with batten mount fixings.

Please contact us or visit the DANLERS website for more details.

Also available: VOLT FREE VARIANTS

Many of the EASYZAPP controls are available with volt free output contacts, including versions for:
Switching only
Dimming DALI (broadcast) ballasts
Dimming 1-10VDC ballasts.

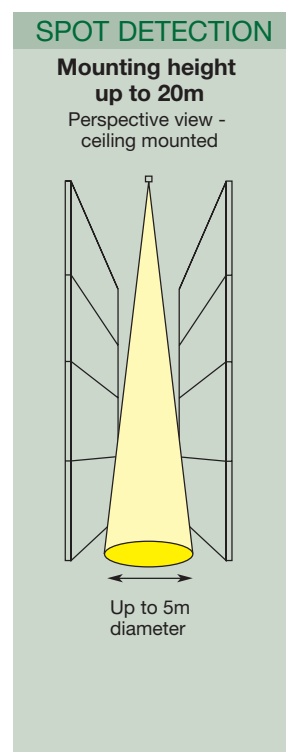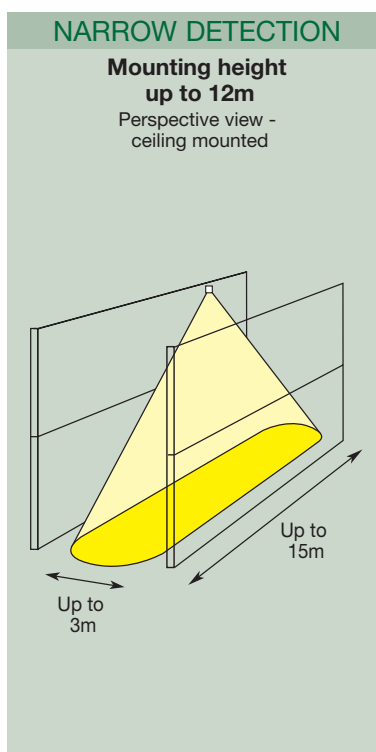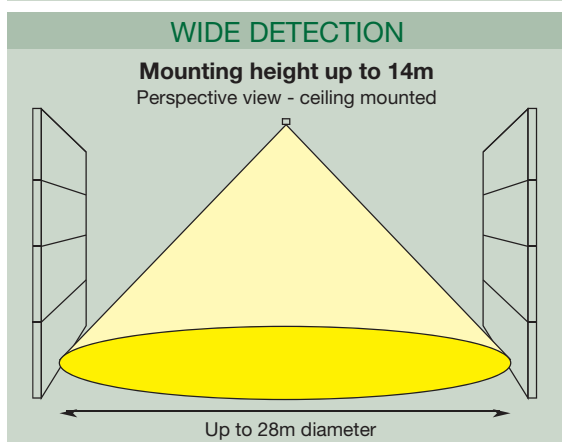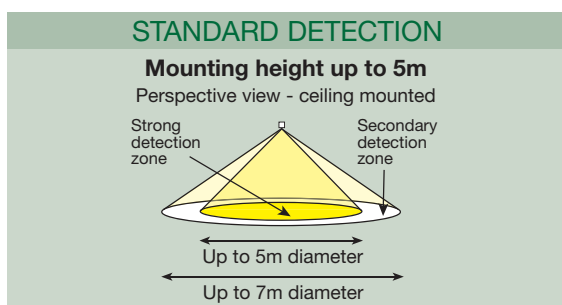Please contact us or visit the DANLERS website for more details.

EASYZAPP - PRODUCT SELECTOR CHART

PRODUCT CODE	MOUNTING STYLE	DETECTION PATTERN	DESCRIPTION (OUTPUT)	PAGE NUMBER
EZ CEFL	Ceiling flush mounted	Standard	Switching only, mains output	4
EZ CEFL DALI	Ceiling flush mounted	Standard	Suitable for DALI broadcast dimmable ballasts. Includes external DALI power supply unit.	4
EZ CEFL 10VDC	Ceiling flush mounted	Standard	Suitable for 1-10VDC dimmable ballasts	4
EZ CESR	Ceiling surface mounted	Standard	Switching only, mains output	5
EZ CESR DALI	Ceiling surface mounted	Standard	Suitable for DALI broadcast dimmable ballasts. Includes external DALI power supply unit.	5
EZ CESR 10VDC	Ceiling surface mounted	Standard	Suitable for 1-10VDC dimmable ballasts	5
EZHB ND	High bay mounted	Narrow	Switching only, mains output	6
EZHB SP	High bay mounted	Spot	Switching only, mains output	6
EZHB WD	High bay mounted	Wide	Switching only, mains output	6
EZHB ND DALI	High bay mounted	Narrow	Suitable for DALI broadcast dimmable ballasts. Includes external DALI power supply unit.	7
EZHB SP DALI	High bay mounted	Spot	Suitable for DALI broadcast dimmable ballasts. Includes external DALI power supply unit.	7
EZHB WD DALI	High bay mounted	Wide	Suitable for DALI broadcast dimmable ballasts. Includes external DALI power supply unit.	7
EZHB ND 10VDC	High bay mounted	Narrow	Suitable for 1-10VDC dimmable ballasts	8
EZHB SP 10VDC	High bay mounted	Spot	Suitable for 1-10VDC dimmable ballasts	8
EZHB WD 10VDC	High bay mounted	Wide	Suitable for 1-10VDC dimmable ballasts	8
BATTEN MOUNT VERSIONS	All of the above surface mounted and high bay products are also available with batten mount fixings.			
VOLT FREE VARIANTS	Many of the above products are also available with volt free output contacts.			

Detection

EasyZAPP controls are available in one of 4 detection patterns, which are optimised for particular applications.

Standard Detection EZCEFL, EZCESR, EZCEFL DALI, EZCESR DALI, EZCEFL 10VDC and EZCESR 10VDC are ideal for offices, corridors etc where the mounting heights does not exceed 5m.

Narrow Detection EZHBND, EZHBNDDALI and EZHBND10VDC high bay versions are ideal for covering storage aisles where a narrow long detection pattern is required.

Spot Detection EZHBSP, EZHBSPDALI and EZHBSP10VDC high bay versions are ideal for smaller areas, such as the entrances to storage aisles.

Wide Detection EZHBWD, EZHBWDDALI and EZHBWD10VDC high bay versions are ideal for large open areas, such as factories, sports halls and entrance halls.

STANDARD DETECTION
Mounting height up to 5m
Perspective view - ceiling mounted

Strong detection zone   Secondary detection zone

Up to 5m diameter
Up to 7m diameter

NARROW DETECTION
Mounting height up to 12m
Perspective view - ceiling mounted

Up to 15m
Up to 3m

SPOT DETECTION
Mounting height up to 20m
Perspective view - ceiling mounted

Up to 5m diameter

WIDE DETECTION
Mounting height up to 14m
Perspective view - ceiling mounted

Up to 28m diameter

EASYZAPP CEILING FLUSH MOUNTED CONTROLS

CEILING FLUSH MOUNTED CONTROLS

Order Codes: **EZ CEFL** (Suitable for switching only)

EZ CEFL DALI (Suitable for DALI broadcast dimmable ballasts)

EZ CEFL 10VDC (Suitable for 1-10VDC dimmable ballasts)

These remotely programmable PIR occupancy switches can be flush mounted through suspended or plasterboard ceilings.

Specification

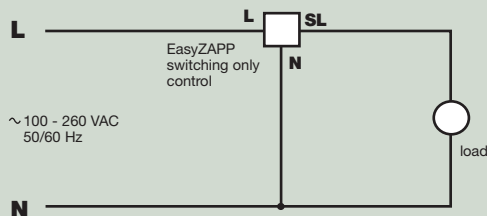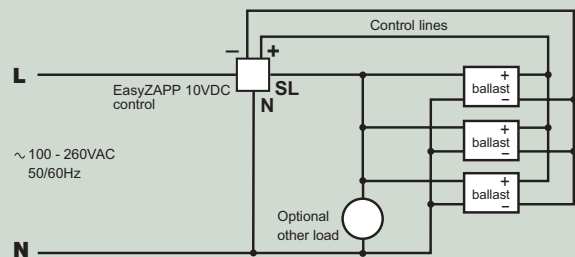|	
Detection range:	See page 3 (Standard detection)
Time lag range:	10 seconds - 24 hours
Photocell range:	30 to 1000 lux and inactive
Loading:	
EZ CEFL:	2 amps (500W) of LED Drivers and LED lamps and fittings. 10 amps (2500W) of resistive loads. 6 amps (1500W) of fluorescent loads. 3 amps (750W) of electronic or wire wound transformer loads. 2 amps (500W) of CFL or 2D lamps. 1 amp (250W) of fans. Minimum load 2W.
EZ CEFL DALI:	Suitable for switching and dimming DALI ballasts (broadcast only). Can control up to 40mA, eg. 20 ballasts at 2mA (varies according to make and model of ballasts). External DALI Power Supply Unit included.
EZ CEFL 10VDC:	Suitable for switching and dimming 1-10VDC ballasts. Can control up to 20mA, eg. 20 ballasts at 1mA (varies according to make and model of ballasts). Minimum load 2W.

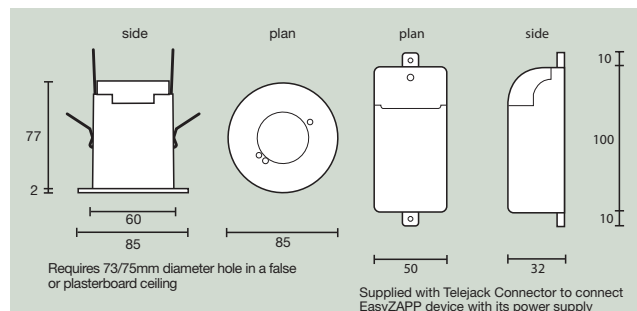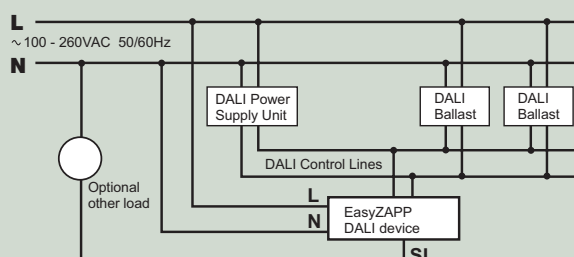
Wiring diagrams and Power Supply and Device dimensions in mm

EasyZAPP switching only control

L — SL
N
EasyZAPP switching only control
~ 100 - 260 VAC 50/60 Hz
N
load

EasyZAPP controlling 1-10V dimmable ballast(s)

Control lines
L
EasyZAPP 10VDC control
– +
SL
N
ballast
ballast
ballast
~ 100 - 260VAC 50/60Hz
Optional other load
N

EasyZAPP controlling DALI dimmable ballast(s)

L
~ 100 - 260VAC 50/60Hz
N
DALI Power Supply Unit
DALI Ballast
DALI Ballast
DALI Control Lines
Optional other load
L
N
EasyZAPP DALI device
SL

side   plan   plan   side

77
2
60
85
85
50
32
10
100
10

Requires 73/75mm diameter hole in a false or plasterboard ceiling

Supplied with Telejack Connector to connect EasyZAPP device with its power supply

EASYZAPP CEILING SURFACE MOUNTED CONTROLS

CEILING SURFACE MOUNTED CONTROLS

Order Codes: EZ CESR (Suitable for switching only)
EZ CESR DALI (Suitable for DALI broadcast dimmable ballasts)
EZ CESR 10VDC (Suitable for 1-10VDC dimmable ballasts)

These remotely programmable PIR occupancy switches can be mounted directly onto solid ceilings or onto a range of different mounting boxes.

Specification

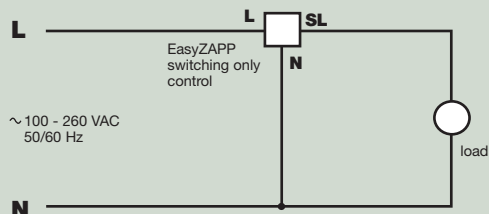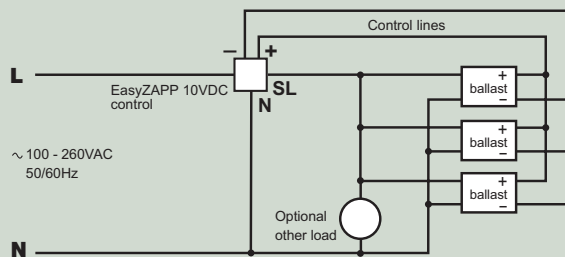|	
Detection range:	See page 3 (Standard detection)
Time lag range:	10 seconds - 24 hours
Photocell range:	30 to 1000 lux and inactive
Loading:	
EZ CESR:	2 amps (500W) of LED Drivers and LED lamps and fittings. 10 amps (2500W) of resistive loads. 6 amps (1500W) of fluorescent loads. 3 amps (750W) of electronic or wire wound transformer loads. 2 amps (500W) of CFL or 2D lamps. 1 amp (250W) of fans. Minimum load 2W.
EZ CESR DALI:	Suitable for switching and dimming DALI ballasts (broadcast only). Can control up to 40mA, eg. 20 ballasts at 2mA (varies according to make and model of ballasts). External DALI Power Supply Unit included.
EZ CESR 10VDC:	Suitable for switching and dimming 1-10VDC ballasts. Can control up to 20mA, eg. 20 ballasts at 1mA (varies according to make and model of ballasts). Minimum load 2W.

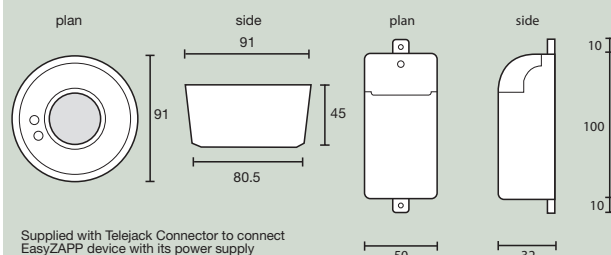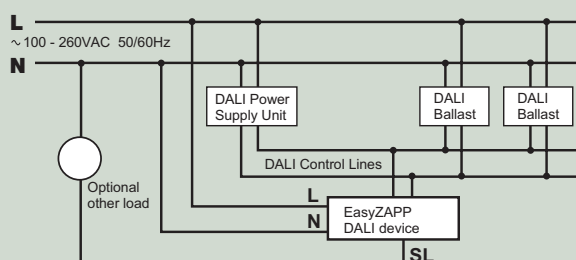### Wiring diagrams and Power Supply and Device dimensions in mm

EasyZAPP switching only control

L — SL
EasyZAPP switching only control
N

~ 100 - 260 VAC 50/60 Hz

load

N

EasyZAPP controlling 1-10V dimmable ballast(s)

Control lines

L — SL
EasyZAPP 10VDC control
N

~ 100 - 260VAC 50/60Hz

ballast
ballast
ballast

Optional other load

N

EasyZAPP controlling DALI dimmable ballast(s)

L
~ 100 - 260VAC 50/60Hz
N

DALI Power Supply Unit

DALI Ballast

DALI Ballast

DALI Control Lines

Optional other load

L
N
EasyZAPP DALI device

SL

plan   side   plan   side

91   91   10
45   100
80.5   10

50   32

Supplied with Telejack Connector to connect EasyZAPP device with its power supply

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EASYZAPP HIGH BAY CONTROLS FOR SWITCHING ONLY

HIGH BAY MOUNTED CONTROLS SUITABLE FOR SWITCHING ONLY

Order Codes: EZHB ND (narrow detection)
EZHB SP (spot detection)
EZHB WD (wide detection)

These remotely programmable PIR occupancy switches can be mounted directly onto solid ceilings or onto a range of different mounting boxes. Ideal for applications with demanding mounting heights such as factories, storage aisles, sports halls etc.
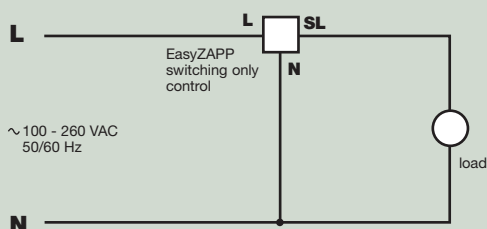
Specification

Detection ranges:	See page 3.
Time lag range:	10 seconds - 24 hours.
Photocell range:	30 to 1000 lux and inactive
LED Loading:	2 amps (500W) of LED Drivers and LED lamps and fittings.
Other Loading:	10 amps (2500W) of resistive loads. 6 amps (1500W) of fluorescent loads. 3 amps (750W) of electronic or wire wound transformer loads. 2 amps (500W) of CFL or 2D lamps, 1 amp (250W) of fans.
Minimum Load:	2W resistive.

Wiring diagram

EasyZAPP switching only control

EasyZAPP switching only control

~ 100 - 260 VAC 50/60 Hz

load

Device and Power Supply dimensions in mm

plan   side   plan   side

90   90   10

63

76   100

50   32   10

Supplied with Telejack Connector to connect EasyZAPP device with its power supply

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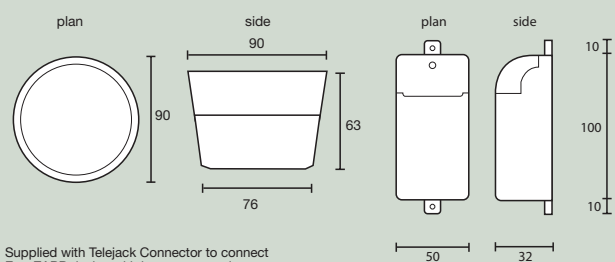
EASYZAPP HIGH BAY CONTROLS FOR DALI DIMMABLE BALLASTS
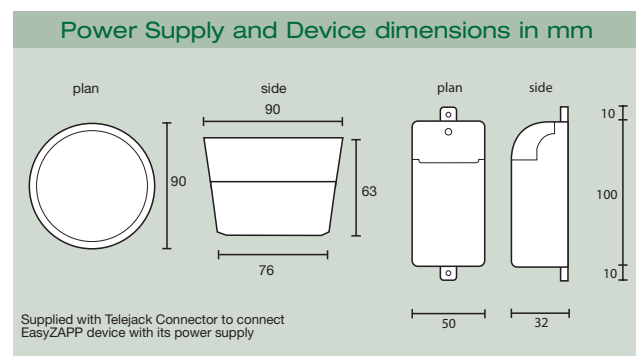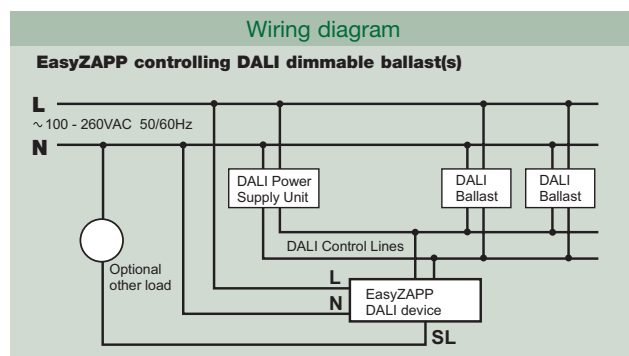

HIGH BAY MOUNTED CONTROLS
SUITABLE FOR DALI BROADCAST DIMMABLE BALLASTS

Order Codes: EZHB ND DALI (narrow detection)
                 EZHB SP DALI (spot detection)
                 EZHB WD DALI (wide detection)

These remotely programmable PIR occupancy switches can be mounted directly onto solid ceilings or onto a range of different mounting boxes. Ideal for applications with demanding mounting heights such as factories, storage aisles, sports halls etc.

Specification

Detection ranges:	See page 3.
Time lag range:	10 seconds - 24 hours.
Photocell range:	30 to 1000 lux and inactive
Loading:	Suitable for switching and dimming DALI ballasts (broadcast only). Can control up to 40mA, eg. 20 ballasts at 2mA (varies according to make and model of ballasts). External DALI Power Supply Unit included.

Wiring diagram

EasyZAPP controlling DALI dimmable ballast(s)

L
~ 100 - 260VAC 50/60Hz
N

DALI Power Supply Unit

DALI Ballast

DALI Ballast

DALI Control Lines

Optional other load

L
N
EasyZAPP DALI device

SL

Power Supply and Device dimensions in mm

plan   side   plan   side

90   90   63
         76
                  50   32

10   100   10

Supplied with Telejack Connector to connect EasyZAPP device with its power supply

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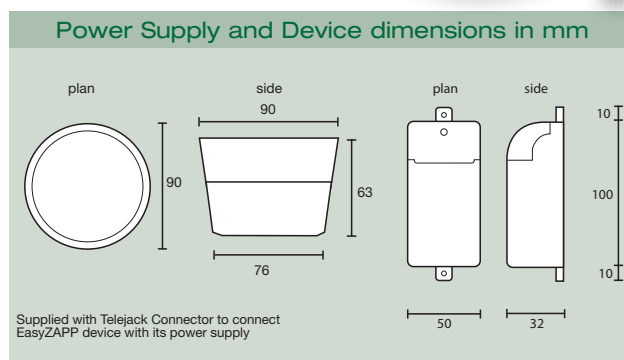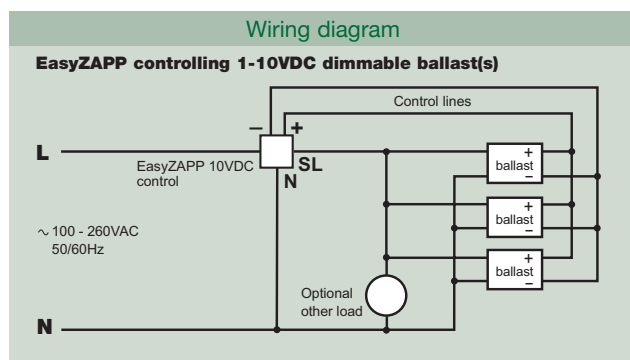# EASYZAPP HIGH BAY CONTROLS FOR 1-10VDC DIMMABLE BALLASTS

HIGH BAY MOUNTED CONTROLS
SUITABLE FOR 1-10VDC DIMMABLE BALLASTS

Order Codes:
EZHB ND 10VDC (narrow detection)
EZHB SP 10VDC (spot detection)
EZHB WD 10VDC (wide detection)

These remotely programmable PIR occupancy switches can be mounted directly onto solid ceilings or onto a range of different mounting boxes. Ideal for applications with demanding mounting heights such as factories, storage aisles, sports halls etc.

Specification

Detection ranges:	See page 3.
Time lag range:	10 seconds - 24 hours.
Photocell range:	30 to 1000 lux and inactive
Loading:	Suitable for switching and dimming 1-10VDC ballasts. Can control up to 20mA, eg. 20 ballasts at 1mA (varies according to make and model of ballasts). Minimum load 2W.

Wiring diagram

EasyZAPP controlling 1-10VDC dimmable ballast(s)

Control lines

L

EasyZAPP 10VDC control

SL
N

~ 100 - 260VAC 50/60Hz

+ ballast –
+ ballast –
+ ballast –

Optional other load

N

Power Supply and Device dimensions in mm

plan
90

side
90
76
63

plan
50

side
32
10
100
10

Supplied with Telejack Connector to connect EasyZAPP device with its power supply

When installing any DANLERS products, please ensure that the most recent edition of the appropriate local wiring regulations has been observed and that appropriate protective measures have been applied.

DANLERS Limited has a policy of continuous development. The right is reserved to change specifications without prior notification or public announcement.

DANLERS
Controls for Lighting & HVAC

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