

NEW



ControlZAPP

REMOTELY
PROGRAMMABLE
CONTROLS
WITH
SCHEDULING

- Scheduling in real time
- Scheduling by sunset /sunrise offset
- PIR occupancy switching
- Lux level switching or dimming
- Timed ON / OFF override
- Versions suitable for DALI ballasts
- Versions suitable for 1-10V ballasts
- Manufactured in the UK
- 5 YEAR WARRANTY



DANLERS

Controls for Lighting & HVAC

www.danlers.co.uk

CONTROLZAPP REMOTELY PROGRAMMABLE CONTROLS



The DANLERS range of ControlZAPP 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. The phone or tablet can also be used as a remote control on/off override. 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

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. Maintained lux levels can be programmed to change at different times of day or on different days.

TIME LAG AND SHORT VISIT TIME LAG

There is a Time Lag and Short Visit Time Lag function on all ControlZAPP controls. The Time Lag is the time that must elapse with no movement detected before the PIR occupancy switch will automatically switch off.

The Short Visit Time Lag enables the end user to occupy an area for a shorter period of time without the product holding the load ON for its full time lag. The ‘Time Lag’ and the ‘Short Visit Time Lag’ are adjustable from 10 seconds to 24 hours in 1 second increments.

PATENTED ‘INTELLIGENT’ PHOTOCELL

ControlZAPP products have DANLERS patented ‘Intelligent’ photocell which learns how much light is emitted by the artificial lights it is controlling. During set-up it fine tunes the exact point at which load switches ON or OFF ensuring the desired lighting switching threshold is accurately maintained - Maximising energy saving by reducing over illumination and eliminating the risk of load ‘cycling’ on/off. If the ambient light is above the preset threshold, the load is switched OFF. The Overlux timer (passing cloud timer) minimises unnecessary switching for brief, transient changes in ambient daylight.

Password protection

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

100m signal range

A ControlZAPP signal from a mobile phone or tablet is sent to a ControlZAPP device by Bluetooth communication. The signal range is up to 100 metres and does not require line of sight.

Location based sunset / sunrise prediction

Function changes can be programmed to occur by timed offset before or after sunset and sunrise.

Automatic daylight savings adjustment

ControlZAPP can be set to automatically adjust for daylight savings times, such as British Summer Time (BST), so device schedules do not require reprogramming.

Batch programming

All ControlZAPP controls have a ‘Batch Configure’ feature whereby all ControlZAPP products within signal range can be programmed with the same control settings - saving time and money.

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.



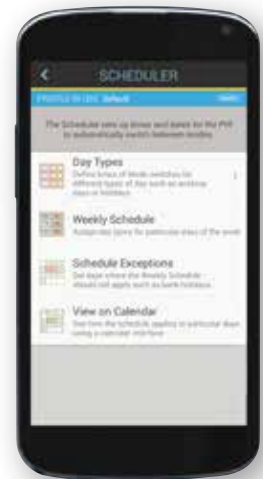
CONTROLZAPP REMOTELY PROGRAMMABLE CONTROLS

SCHEDULING

All ControlZAPP products have 24 hour, daily and weekly scheduling, enabling changes of function accurately in real time. Example: Switching lights ON during the evening for security; or setting shorter time lag for occupancy switching outside working hours. Exceptions can also be scheduled enabling special settings e.g. for holidays.

ControlZAPP products can be scheduled to perform any of the following functions or any combination of the functions below - at any time on any day

- Presence detector switching with photocell override
- Presence detector switching without photocell override
- Presence detection switching with maintained lux levels (dimmable versions only)
- Photocell switching without presence detection
- ON / OFF override switching.



DETECTION

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

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

Narrow Detection CZHB ND, CZHB ND DALI and CZHB ND 10VDC high bay versions are ideal for covering storage aisles where a narrow long detection pattern is required.

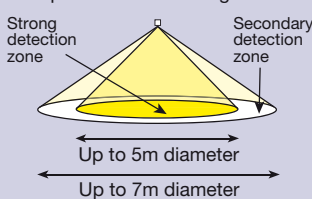
Spot Detection CZHB SP, CZHB SP DALI and CZHB SP 10VDC high bay versions are ideal for smaller areas, such as the entrances to storage aisles.

Wide Detection CZHB WD, CZHB WD DALI and CZHB WD 10VDC high bay versions are ideal for large open areas, such as factories, sports halls and entrance halls.

STANDARD DETECTION

Mounting height up to 5m

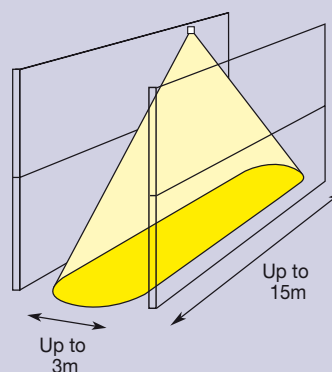
Perspective view - ceiling mounted



NARROW DETECTION

Mounting height up to 12m

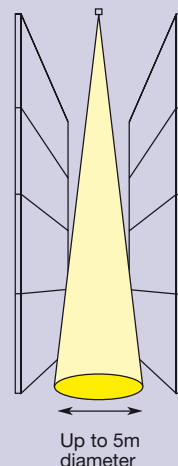
Perspective view - ceiling mounted



SPOT DETECTION

Mounting height up to 20m

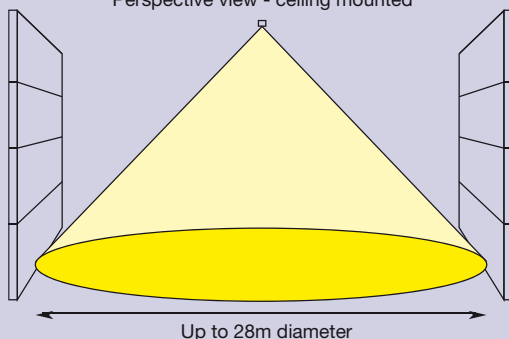
Perspective view - ceiling mounted



WIDE DETECTION

Mounting height up to 14m

Perspective view - ceiling mounted



BATTEN MOUNT VERSIONS

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

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



VOLT FREE VARIANTS

Many of the ControlZAPP controls are also 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.

CONTROLZAPP CEILING FLUSH MOUNTED CONTROLS



CEILING FLUSH MOUNTED CONTROLS

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

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

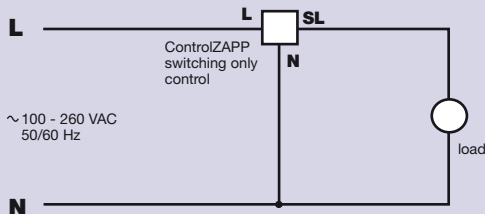
Specification

Detection zone:	360° (Standard detection, see page 3).
Max. detection area:	7m diameter at 2.4m mounting height
Time lag range:	10 seconds - 24 hours (Short visit time lag range also 10 seconds - 24 hours)
Photocell range:	30 to 1000 lux and inactive
Loading:	
CZ 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.
CZ 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.
CZ 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.

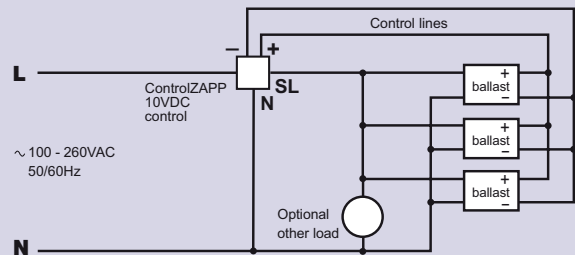


Wiring diagrams and Device and Power Supply dimensions in mm

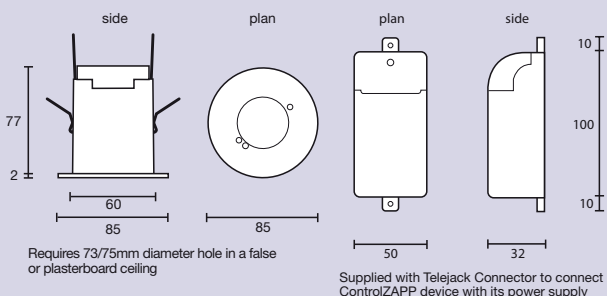
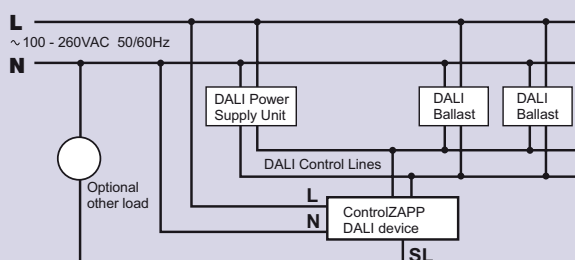
CZ CEFL switching only control



CZ CEFL 10VDC controlling 1-10V dimmable ballast(s)



CZ CEFL DALI controlling DALI dimmable ballast(s)



CONTROLZAPP CEILING SURFACE MOUNTED CONTROLS



CEILING SURFACE MOUNTED CONTROLS

- Order Codes: CZ CESR (Suitable for switching only)
 CZ CESR DALI (Suitable for DALI broadcast dimmable ballasts)
 CZ 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.

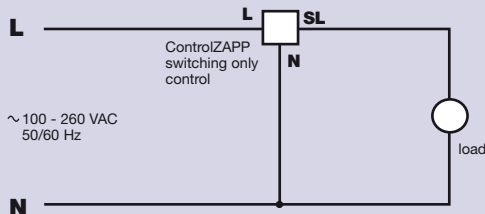
Specification

Detection zone:	360° (Standard detection, see page 3).
Max. detection area:	7m diameter at 2.4m mounting height
Time lag range:	10 seconds - 24 hours (Short visit time lag range also 10 seconds - 24 hours)
Photocell range:	30 to 1000 lux and inactive
Loading:	
CZ 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.
CZ 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.
CZ 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.

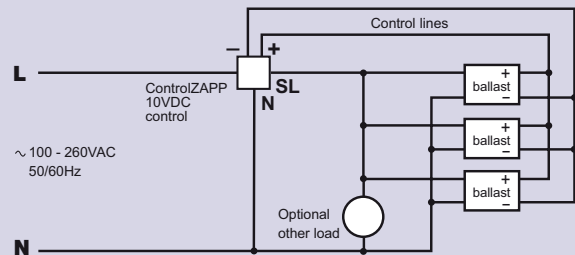


Wiring diagrams and Device and Power Supply dimensions in mm

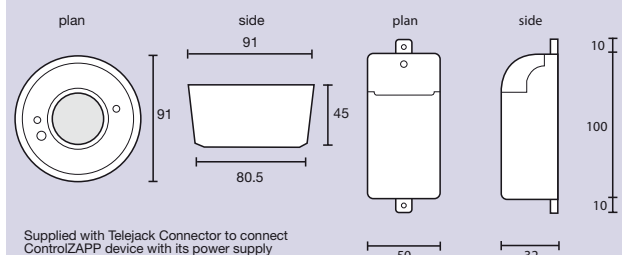
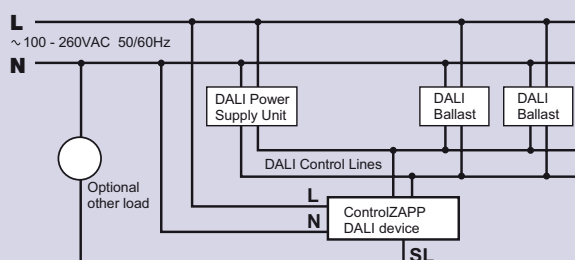
CZ CESR switching only control



CZ CESR 10VDC controlling 1-10V dimmable ballast(s)



CZ CESR DALI controlling DALI dimmable ballast(s)



CONTROLZAPP HIGH BAY CONTROLS FOR SWITCHING ONLY



HIGH BAY MOUNTED CONTROLS SUITABLE FOR SWITCHING ONLY

Order Codes: CZHB ND (narrow detection)
 CZHB SP (spot detection)
 CZHB 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.

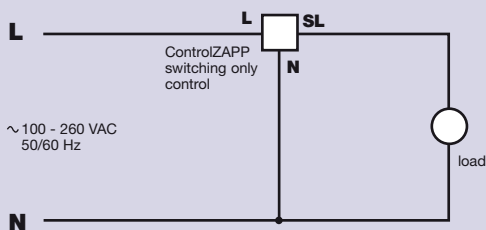
Specification

Detection zone:	Please see page 3 for detection diagrams
Detection area:	<p>CZHB ND - Narrow detection Up to 15m x 3m. Mounting height up to 12m</p> <p>CZHB SP - Spot detection Up to 5m diameter Mounting height up to 20m</p> <p>CZHB WD - Wide detection Up to 28m diameter Mounting height up to 14m</p>
Time lag range:	10 seconds - 24 hours Short visit 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.

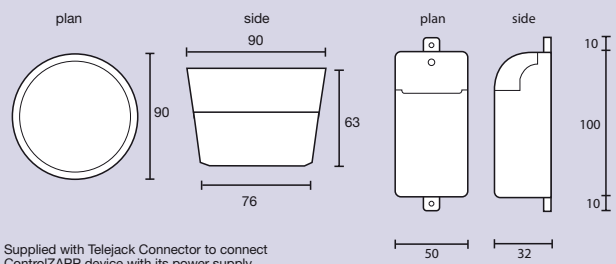


Wiring diagram

CZHB (xx) switching only control



Device and Power Supply dimensions in mm



CONTROLZAPP HIGH BAY CONTROLS FOR DALI DIMMABLE BALLASTS



HIGH BAY MOUNTED CONTROLS SUITABLE FOR DALI BROADCAST DIMMABLE BALLASTS

Order Codes: CZHB ND DALI (narrow detection)
 CZHB SP DALI (spot detection)
 CZHB 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.

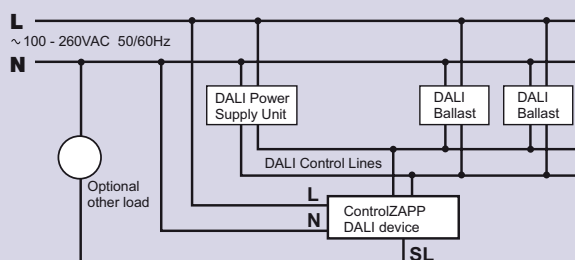
Specification

Detection zone:	Please see page 3 for detection diagrams
Detection area:	CZHB ND DALI - Narrow detection Up to 15m x 3m. Mounting height up to 12m
	CZHB SP DALI - Spot detection Up to 5m diameter Mounting height up to 20m
	CZHB WD DALI - Wide detection Up to 28m diameter Mounting height up to 14m
Time lag range:	10 seconds - 24 hours Short visit 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.

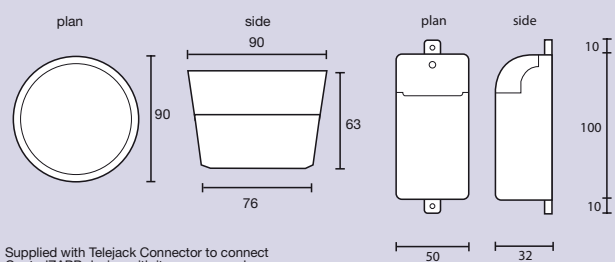


Wiring diagram

CZHB (xx) DALI controlling DALI dimmable ballast(s)



Device and Power Supply dimensions in mm



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

CONTROLZAPP HIGH BAY CONTROLS FOR 1-10VDC DIMMABLE BALLASTS



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

Order Codes: CZHB ND 10VDC (narrow detection)
 CZHB SP 10VDC (spot detection)
 CZHB 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.

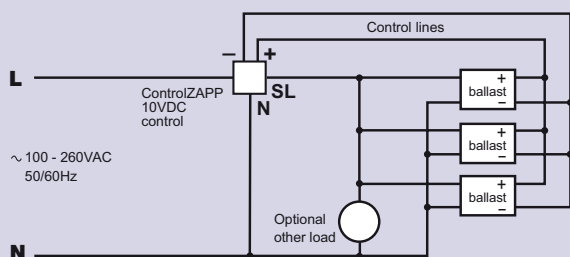
Specification

Detection zone:	Please see page 3 for detection diagrams
Detection area:	CZHB ND 10VDC - Narrow detection Up to 15m x 3m. Mounting height up to 12m
	CZHB SP 10VDC - Spot detection Up to 5m diameter Mounting height up to 20m
	CZHB WD 10VDC - Wide detection Up to 28m diameter Mounting height up to 14m
Time lag range:	10 seconds - 24 hours Short visit 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.

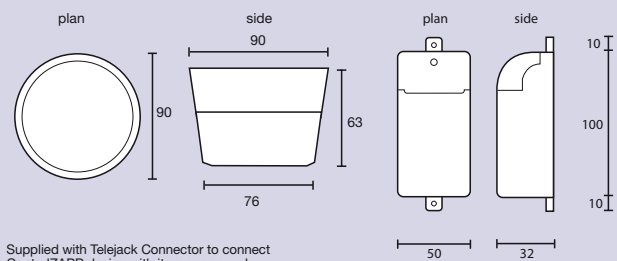


Wiring diagram

CZHB (xx) 10VDC controlling 1-10VDC dimmable ballast(s)



Device and Power Supply dimensions in mm



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.

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DANLERS Limited, Vincients Road, Chippenham, Wiltshire, SN14 6NQ U.K.
Tel: +44 (0)1249 443377. Fax: +44 (0)1249 443388. E-mail: sales@danlers.co.uk

www.danlers.co.uk