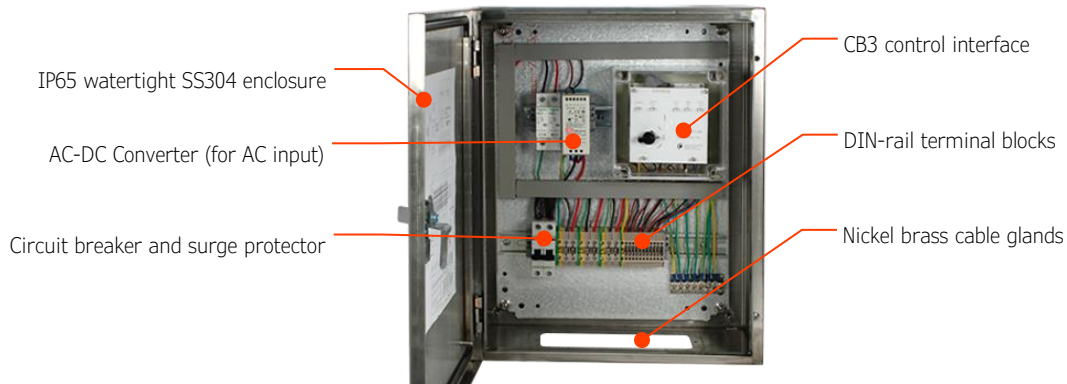


# CB3 Control Box for Obstruction Lights

Applicable for F864, F865, F86465



## OVERVIEW

Incorporated CAN-Bus technology, the CB3 control box is capable of controlling and monitoring REDDOT LED medium intensity obstruction lights via signals. Compared to the traditional power-switch type of control box, the CB3 control box eliminates damages to obstruction lights and enhances reliability.

CB3 control box contains three light outputs. Each output can connect unlimited numbers of F864/F865/F86465 medium intensity obstruction lights, thanks to logic signals transmission.

CB3 control box is an ideal solution for three levels of medium intensity lights. CB3 can synchronize the flashing of all lights on three levels. In some applications, it flashes the three levels' lights in sequential order (middle-top-bottom). When the obstruction lighting system includes F86465 or F865 units, the CB3 control box flashes 20,000cd white beacons at day and automatically dims lights to 2,000cd at night.

Equipped with a 40W power converter, users can input universal 85-265VAC to the CB3 control box. With a Form C dry alarm relay (NO&NC), the control box can transmit any obstruction lighting system's failure to users' alarm devices.

A PHC01 photocell connected to the CB3 control box is for detecting the ambient environment and automatically switching the operation mode of obstruction lights. A bypass switch on the interface panel allows users to bypass the photocell for permanently lightening or testing.

DIN-rail terminal blocks save wiring time and enhance wiring safety. A 2P circuit breaker is effective in protecting converters from overload. A surge protector enhances protection against voltage fluctuation and lightning strikes.

## FEATURES

- CAN-Bus technology
- Universal AC input, 85-265VAC, 50-60Hz
- LED indicators for lights, power and photocell
- Three light outputs, each output can connect unlimited numbers of F864/F86465/F865
- Synchronize all lights or sequence flashing "middle-top-bottom"
- External photocell with prewired shielded cable, easy to maintain
- Bypass switch for photocell "DAY-AUTO-NIGHT" for commissioning and maintenance
- One dry contact relay (From C, NO&NC) for alarm output of lights, power and photocell
- Equipped with High-quality power converter, efficiency>80%
- DIN-rail terminal blocks save wiring time and enhance wiring safety
- Circuit breaker against overload
- Surge protector against voltage fluctuation and lightning strikes

## APPLICABLE OBL MODELS

- F864, F86465, F865



## SPECIFICATIONS

Item		CB3 Specifications
POWER SUPPLY	Input voltage	85-265VAC,50-60Hz / 48VDC / 24VDC / 12VDC
	Output voltage	CAN bus signals
	Power Consumption	10W
	Converter Power	40W
OPERATION	Numbers of Light Output	3
	Max.Load/Output	Unlimited
	Flash Rate	40FPM as default
	Photocell sensitivity	200Lux
	Photocell bypass	Auto-Day-Night adjustable
	Alarm type	Form C, NO & NC, dry contact relay
	Numbers of Alarm Output	1*alarm relay for lights, power and photocell
MECHANICAL STRUCTURE	Enclosure Type	Outdoor
	Enclosure Material	SS304
	Protection	IP65
	Weight	6KG
	Dimension (H*W*Depth)	400*300*150mm
	Operaton Temperature	-40°C~+60°C
	Operation Humidity	0-95% RH non-condensing
	Mounting	Wall mounting or U-bolt mounting

## ORDERING CODE

Series	Input voltage	Converter output <sup>(Note3)</sup>	Operation Mode
CB3	A220 (85-265VAC) D48 (48VDC) D24 (24VDC) D12 (12VDC)	[BLANK] (No converter) D48 (48VDC)	SYN <sup>(Note1)</sup> SEQ <sup>(Note2)</sup>

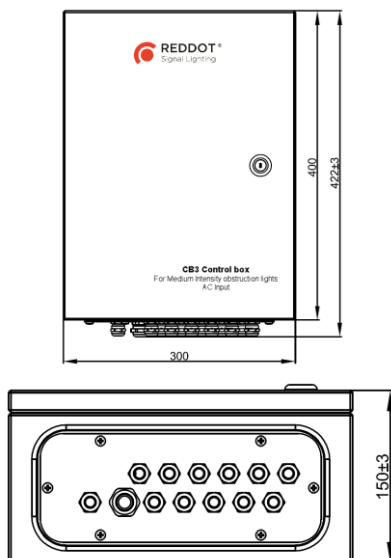
Notes: 1) SYN: All lights connected to CB3 flash synchronously.

2) Flash sequence of three levels: middle-top-bottom.

3) When input is AC, a AC-48VDC converter is built-in the control box; when input is DC, DC input supplies power directly to control board.

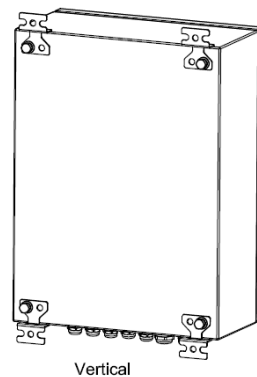
E.g.: CB3A220D48SEQ = CB3 control box with CAN bus module, 85-265VAC input, flash at sequential order: middle-top-bottom

## DIMENSIONS

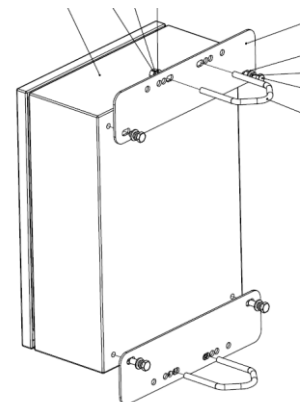


## MOUNTING

### Wall Mounting



### U-bolt Mounting



## APPLICATION EXAMPLES

- Three level of F86465 dual red-white medium intensity obstruction lighting system (3T3F86465-C(CB3)-AC)

