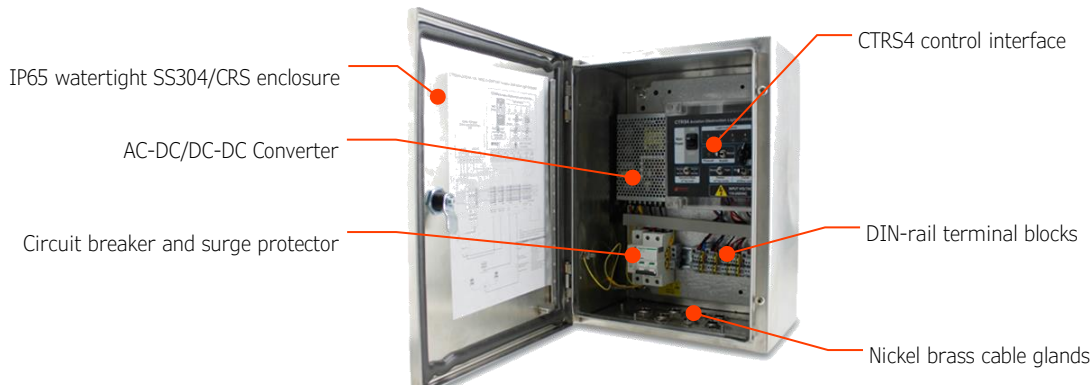


# CTRS4CBSP-DUAL Control Box for Obstruction Lights

## AC/DC input and DC output control box



### OVERVIEW

The CTRS4CBSP-DUAL is an obstruction lighting control box designed for controlling and monitoring RedDot LED low intensity and medium intensity aviation obstruction lights. Incorporated a power converter, CTRS4CBSP-DUAL allows users to input two types of voltage and converts to lower voltage for electrical safety works. The user-friendly interface is intuitive for users to monitor operation status and easily configure functions.

There are four light outputs (max. 1A load/output). Practically, for example, for input voltage 220VAC & 48VDC, each output connects one OM2K or F864 medium intensity light, or up to eight OL32/OL100 low intensity lights.

With a Form C dry alarm relay (NO&NC), the control box is capable of transmitting the obstruction lighting system's failure to users' alarm devices, when light failure, power-off or photocell failure.

A PHC01 photocell is used for automatically switching on and off the obstruction lighting system from dusk to dawn. 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

- Dual voltage input: AC & DC48V/24V/12V, DC48V & DC24V/12V, 24VDC & 12VDC
- DC output: 48VDC, 24VDC, 12VDC
- High-quality power converter, efficiency>80%
- On/Off main power switch
- LED indicators for light, power and photocell
- "Service+Service"/"Service+Standby" adjustable when double lights used
- Four light-outputs, 1-4 selectable upon actual application
- Each light output load maximum 1A
- Steady/Flashing adjustable
- External photocell with prewired shielded cable, easy to maintain
- Bypass switch to photocell for testing or 24/7 operation
- One dry contact relay (From C, NO&NC) for alarm output of lights, power and photocell
- DIN-rail terminal blocks save wiring time and enhance wiring safety
- Circuit breaker against overload and shortcircuit
- Surge protector against voltage fluctuation and lightning strikes

### APPLICABLE OBL MODELS

- OL32S, OL32D, OL100S, OL100D, OL200, OM2K, OM2C-D, F864



## SPECIFICATIONS

Item		CTRS4CBSP-DUAL Specifications					
POWER SUPPLY	Input voltage	AC&48VDC	AC&24VDC	AC&12VDC	48VDC&24VDC	48VDC&12VDC	24VDC&12VDC
	Output voltage	48VDC	24VDC	12VDC	24VDC	12VDC	12VDC
	Power Consumption	5W					
	Converter Power	15W - 240W, depends on total lights' power					
OPERATION	Numbers of Light Output	4					
	Max.Load/Output	1A					
	Flash Rate	Steady/Flashing(20FPM), adjustable					
	Photocell sensitivity	200Lux					
	Photocell bypass	Auto/Manual 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 •Cold-rolled steel					
	Protection	IP65					
	Weight	5KG					
	Dimension (H*W*Depth)	422mm*300mm*150mm					
	Operaton Temperature	-40°C~+60°C					
	Operation Humidity	0-95% RH non-condensing					
	Mounting	Wall mounting or U-bolt mounting					

## ORDERING CODE

Series	Dual voltage type	Input voltage 1	Input voltage2 & output voltage	Numbers of lights on top	Converter Type (Note3)	Converter Power (Note4)	Enclosure material
CTRS4CBSP	1 (Dual)	A220 (85-265VAC)	D48 (48VDC)	T1 (Note1)	ENC (Enclosed)	Variable	SS (SS304)
		D48 (48VDC)	D24 (24VDC)	T2 (Note2)	DIN (DIN-rail)	CRS (Cold-rolled steel)	
		D24 (24VDC)	D12 (12VDC)				

Notes: 1) T1: one light is on top of a structure or the light functions differently from other lights, adjustable Service+Service/Service+Standby NOT applicable.

2) T2: two lights on top of structure or two lights functions coordinately but differently from other lights, adjustable Service+Service/Service+Standby applicable.



3) Enclosed type:

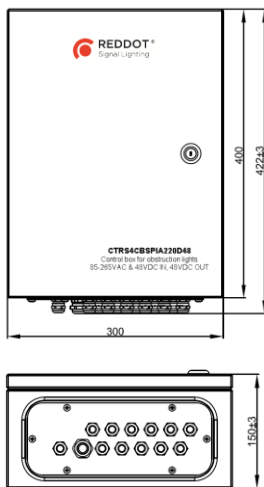
DIN-rail type:



4) The converter's power depends on lights' power connected to the control box. REDDOT will offer the most suitable to customers.

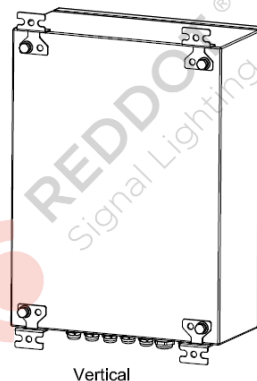
E.g.: CTRS4CBSP1A220D48T2-ENC100-SS = Dual voltage input control box, 85-265VAC & 48VDC input, 48VDC output, Service+Service/Service+Standby applicable, with enclosed converter 100W, SS304 enclosure

## DIMENSIONS

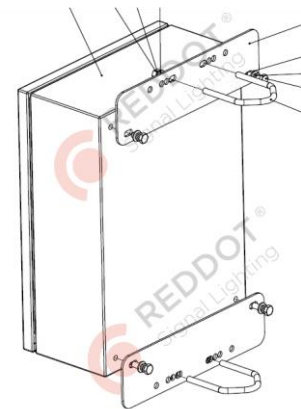


## MOUNTING

### Wall Mounting



### U-bolt Mounting



## APPLICATION EXAMPLES

- One medium intensity beacon and three low intensity obstruction lighting AC & 48VDC system

