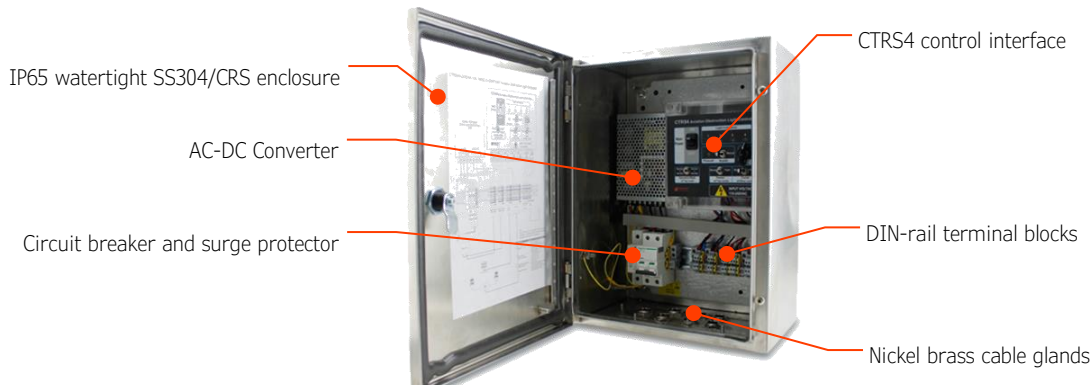


CTRS4CBSP-AIDO Control Box for Obstruction Lights

AC input and DC output control box



OVERVIEW

The CTRS4CBSP-AIDO is an obstruction lighting control box designed for controlling and monitoring RedDot LED low intensity and medium intensity aviation obstruction lights. Incorporated an AC/DC power converter, CTRS4CBSP-AIDO allows users to input AC voltage (85-265VAC) and converts to 48VDC/24VDC/12VDC 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 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 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

- Universal AC voltage input, range 85-265VAC
- Output voltage 48VDC/24VDC/12VDC available
- 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-AIDO Specifications			
POWER SUPPLY	Input voltage	85-265VAC,50-60Hz			
	Output voltage	85-265VAC,50-60Hz	48VDC	24VDC	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	AC Input voltage	DC Output voltage	Numbers of lights on top	Converter Type (Note3)	Converter Power (Note4)	Enclosure material
CTRS4CBSP	A220 (85-265VAC)	D48 (48VDC)	T1 (Note1)	ENC (Enclosed)	Variable	SS (SS304) CRS (Cold-rolled steel)
		D24 (24VDC)	T2 (Note2)	DIN (DIN-rail)		
		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.



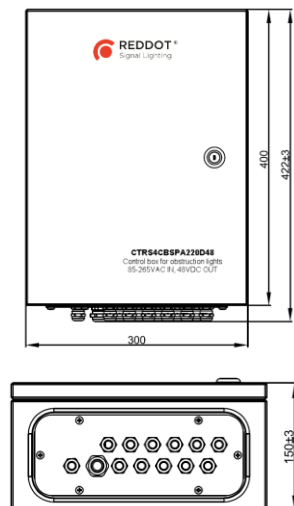
3) Enclosed type:

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.

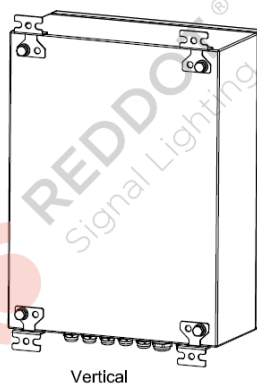
E.g.: CTRS4CBSPA220D48T2-ENC100-SS = AC-DC control box, 85-265VAC input, 48VDC output, Service+Service/Service+Standby applicable, with enclosed converter 100W, SS304

DIMENSIONS

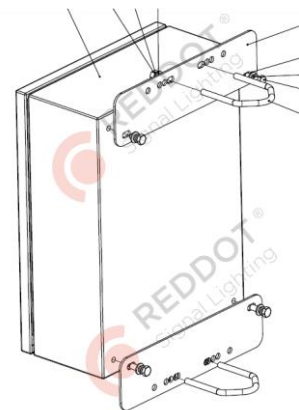


MOUNTING

Wall Mounting



U-bolt Mounting



APPLICATION EXAMPLES

- Two F864 medium intensity and three OL200 low intensity obstruction lighting system (2F8643OL200-C-A220D48)

