CTRS4 Control Box for Obstruction Lights
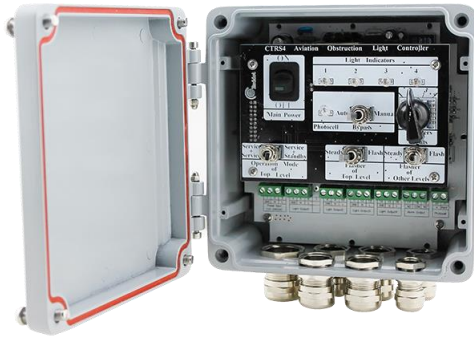## Applicable for: OL32S, OL32D, OL100S, OL100D, OL200, OM2K, OM2C-D, F864

Outdoor CTRS4

Indoor CTRS4

■ OVERVIEW

The CTRS4 control box is used for controlling and monitoring RedDot LED low intensity and medium intensity aviation obstruction lights. The user-friendly interface is intuitive for users to monitor obstruction lighting operation status and easily configure functions.

There are four light outputs (max. 1A load/output). Practically, for example, under 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 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.

CTRS4 indoor control box has a plastic enclosure on which indicators and switches are directly accessible. CTRS4 outdoor controller covered by an aluminum enclosure and assembled with cable glands, is a perfect IP65 model for harsh environment use.

■ FEATURES

- 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
- Indoor type is intuitive; outdoor type is watertight IP65

■ APPLICABLE OBL MODELS

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

■ SPECIFICATIONS

Item		CTRS4 Specifications	
POWER SUPPLY	Input voltage	85-265VAC,50-60Hz / 48VDC / 24VDC / 12VDC	
	Output voltage	Equal to input voltage	
	Power Consumption	4W	
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*contact relay for lights, power and photocell	
MECHANICAL STRUCTURE	Enclosure Type	Outdoor	Indoor
	Enclosure Material	Aluminum alloy	Plastic
	Protection	IP20	IP65
	Weight	1.5KG	0.8KG
	Dimension (H*W*Depth)	180mm*173mm*88mm	180mm*170mm*108mm
	Operation Temperature	-40°C~+60°C	
	Operation Humidity	0-95% RH non-condensing	
	Mounting	Wall mounting or U-bolt mounting	

■ ORDERING CODE

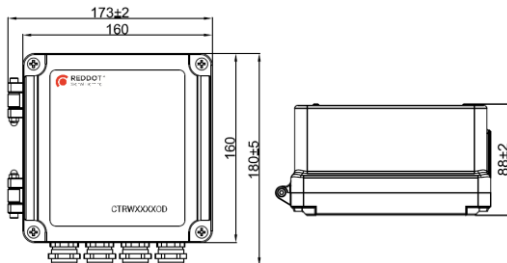| Series	Input Voltage	Numbers of lights on top	Indoor/Outdoor
CTRS4	**A220** (85-265VAC) **A120** (85-265VAC) **D48** (48VDC) **D24** (24VDC) **D12** (12VDC)	**T1** (Note1) **T2** (Note2)	**ID** (Indoor) **OD** (Outdoor)

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.
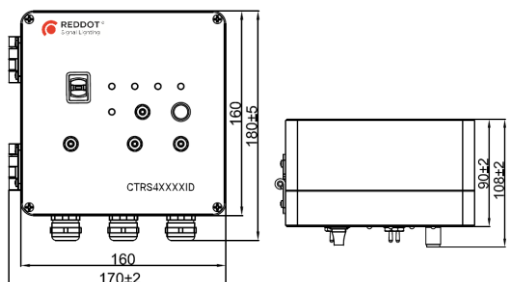**E.g.:** CTRS4D48T2OD = CTRS4 outdoor control box, 48VDC, Service+Service/Service+Standby applicable

■ DIMENSIONS

CTRS4 Outdoor Dimensions

CTRS4 Indoor Dimensions
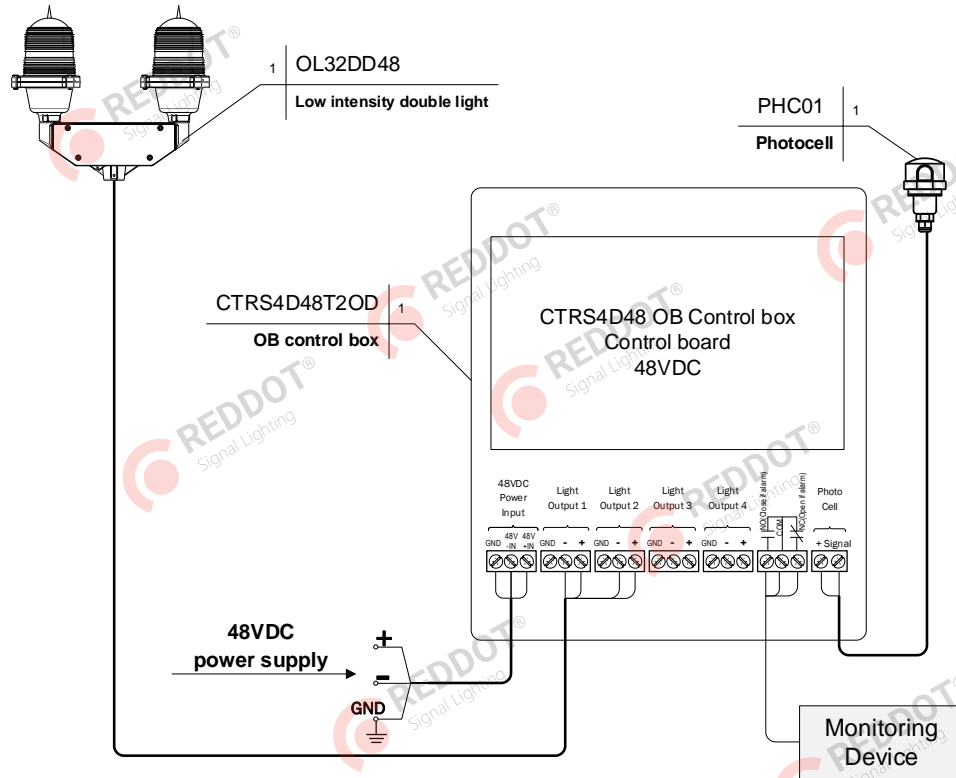

■ MOUNTING

● Wall Mounting	● U-bolt Mounting
	figure 5.

■ APPLICATION EXAMPLES

• One low intensity double obstruction lighting 48VDC system (OL321D-C-48)

OL32DD48 — 1

Low intensity double light

PHC01 — 1

Photocell

CTRS4D48T2OD — 1

OB control box

CTRS4D48 OB Control box
Control board
48VDC

48VDC
Power
Input

Light
Output 1

Light
Output 2

Light
Output 3

Light
Output 4

Photo
Cell

GND 48V 48V
      -IN +IN

GND - +   GND - +   GND - +   GND - +

NC(Close if alarm)
COM
NO(Open if alarm)

+ Signal

**48VDC
power supply** **+**

−

GND

Monitoring
Device

• One medium intensity beacon and three low intensity obstruction lighting AC system (1F864-3OL32S-C-AC)

F864 — 1

Medium intensity beacon

CTRS4A220T1OD — 1

Control box

PHC01 — 1

Photocell

OL32SA220 — 3

Low intensity single light

CTRS4A220 Controller
Control board
85-265VAC

AC
Power
Input

Light
Output1

Light
Output2

Light
Output3

Light
Output4

Photo
cell

GND AC AC
      N   L

GND N L   GND N L   GND N L   GND N L

NO
COM
NC

+ Signal

**85-265VAC
Power supply** **L**

N

GND

Monitoring
Device