

CTR04-AIDO control box

CTR04-AIDO is specially designed for voltage AC input and DC output outdoor controller installation, to control and monitor aviation obstruction lighting system.

CTR04-AIDO control box employs MCU IC control technology. With a pre-programmed software, control up to 4 ways aviation obstruction lights. In case of any medium intensity beacon or any level of low intensity sidelights failure, will send alarm signal to the controller and then output to remote monitoring system.

A photocell is deployed within the controller system, which can turn on/off the system from dusk to dawn automatically, easy for maintenance and trouble shooting. Once the photocell fails, all lights in the system will be on in a safe status.

Features

- Designed for AC100-240V input voltage and DC48V output obstruction lighting system
- Control up to three medium intensity beacons and 1 level of up to 4 units of low intensity single obstruction lights, also suitable for only single or double obstruction lighting system.
- Dry contact alarm relay for power supply, flasher, beacon, markers, photocell
- LED indicators in control board to indicate lights, power, photocell operation status
- Alarm relay for each sidelight level
- Alarm relay for each beacon
- Auto/manual mode control switch
- Alarm signal output, easy for connecting remote alarm monitoring device
- Combined with REDDOT PHC01 photocell, which can turn on/off the system from dusk to dawn
- Surge protector for input and output

Specifications

Description	Parameter
Input power voltage	100-240VAC(50/60HZ)
Output operation voltage	48VDC
Surge protector	65KA/2.5KV
Protection class	IP65
Material (Two options)	1 : Cold-Rolled steel sheet, Ral-7035 Electrostatic Polyester 2 : Stainless steel SUS304
Operating temperature	-30C°-+60C°
Photocell sensitivity	30/70Lux
Dimension	400mm*300mm*150mm
Weight	8KG



Cold-Rolled steel sheet



Stainless Steel SUS304



• Inside view



• PHC01 Photocell



• OL32D Double Light



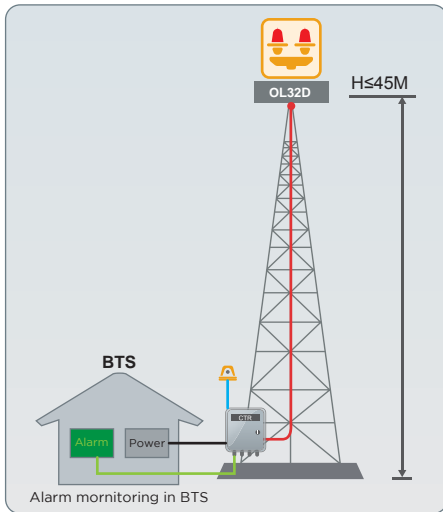
• OL32 Single Light



• OM2B medium intensity

Typical System Application

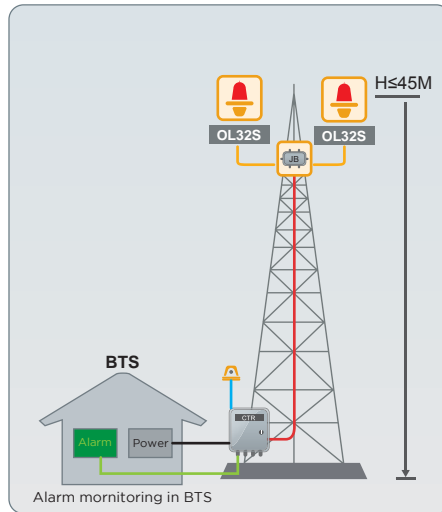
T45-D



1 double obstruction lighting system

- Control one low intensity double light on the top
- Under “service+standby” system, configured transfer relay in the control box, in case of service lamp failure, will transfer to standby lamp
- In “Service+service” type, either failure will output signal to the control box

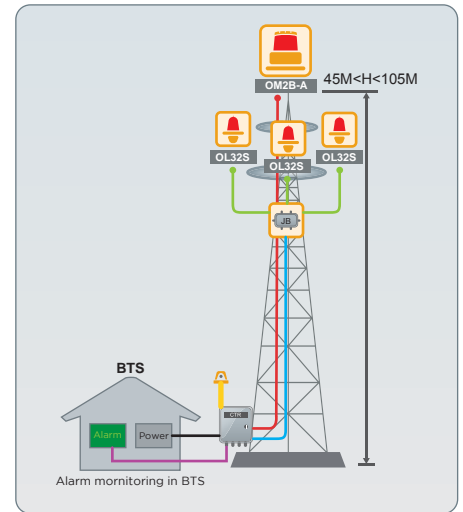
T45-2S



2 single obstruction lighting system

- Control two low intensity single light on the top
- Under “service+standby” system, configured transfer relay in the control box, in case of service lamp failure, will transfer to standby lamp
- In “Service+service” type, either failure will output signal to the control box

T90-XMYS



1 medium intensity beacon+3 or 4 single low intensity obstruction lights

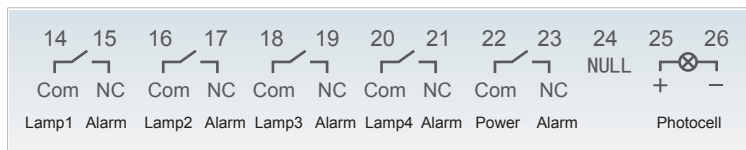
- One medium intensity light on the top and 3 or 4 single low intensity light on 1/2 or 2/3 height of tower
- Alarm output for each medium intensity beacon
- Alarm output for each low intensity level

Wiring method

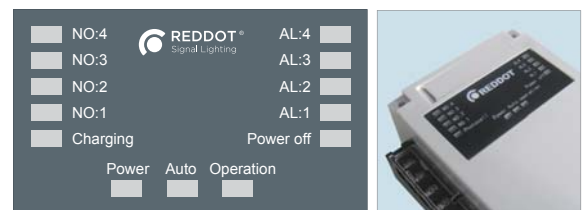
Please connect the power cord according to the label instruction



“Power” - controller power input
Lamp1, Lamp2, Lamp3, Lamp4 - connect to aviation obstruction light separately



Lamp1 Alarm, Lamp2 Alarm, Lamp3 Alarm, Lamp4 Alarm - output alarm terminal



Photocell - photocell control terminal
NO:1, NO:2, NO:3, NO:4 are 4 aviation obstruction light indicators individually.

Green light means working fine. Red light AL1, AL2, AL3, AL4 means corresponding light has failed.

- Please make sure all wiring job are correct. Connecting the power supply, then the controller will start to work