

# CB04O Control Box

CB04O control box is a microprocessor outdoor controller device for monitoring and controlling obstruction lights, mostly for telecom, GSM, Microwave and TV towers. Connected with external photocell, the control panel will turn on/off automatically obstruction lighting system from dusk to dawn. Even at day time, the control panel is still in monitoring status. CB04O can be preprogrammed for different obstruction lighting configurations. Each branch of maximum power output of 100W, this product uses the current detection, a common alarm relay output.

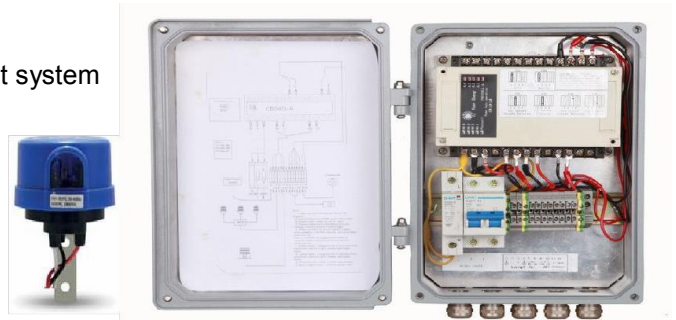
## Features

### MECHANICAL

- Aluminum alloy Enclosure, IP67, outdoor type, good corrosion resistance
- Circuit breaker switch, surge protection and terminal block are suitable for DIN rail mounting
- The enclosure door is secured by four captive screws
- Supplied with PG13.5 cable glands
- Four threaded mounting holes in the back of control box, suitable for attaching to any vertical surface or rack mounting.

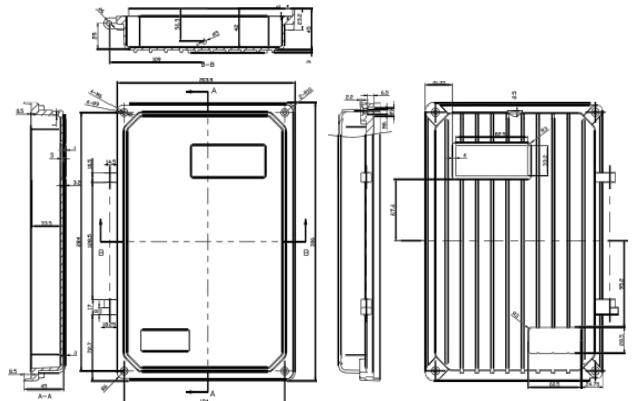
### ELECTRICAL

- Control up to four channels light output, each channel control up to four LED low intensity obstruction lights or one LED medium intensity beacon.
- Steady-burning and flashing mode adjustable by DIP switch
- Auto/manual mode by DIP switch
- Photocell with prewired shielded cable in five meters long
- Transfer relay for “service+standby” double obstruction light system
- LED indicator for lights, power, photocell operation status
- Dry contact alarm output for lights ,Photocell and power.
- NO or NC alarm-common output alarm terminal
- Over voltage protection and MOV surge protection
- Circuit breaker protection and fuse protection

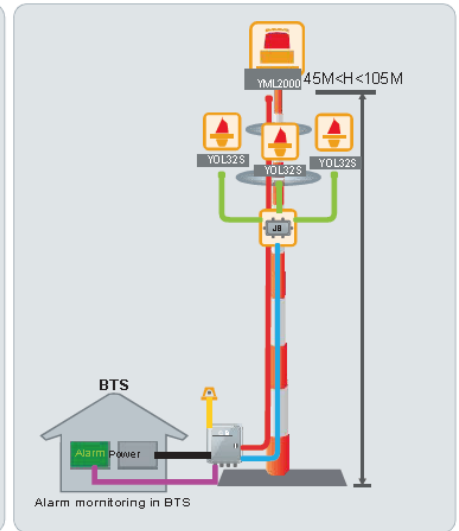
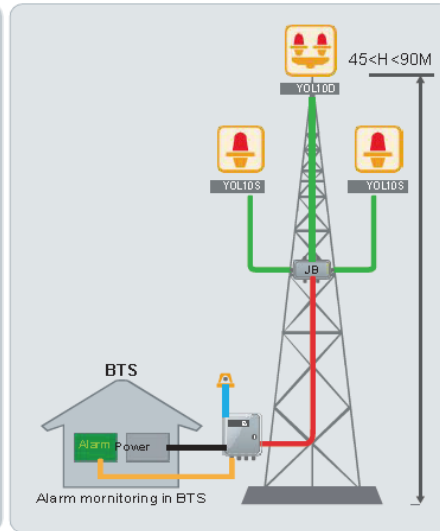
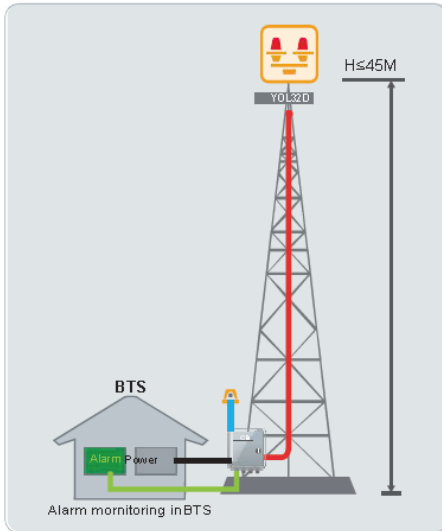


## Specifications

Parameter	
Input Voltage	• 85-265VAC, 50/60HZ • 48VDC • 24VDC
Power consumption	10 W
Flash rate	Steady-Burning/40FPM(default)
Photocell sensitivity	70/100Lux
Operating temperature range	-30°C——+60°C
Enclosure	Aluminum alloy
Protection class	IP67
Dimension (HxWxDepth)	320x219x104mm
Weigh	3.9 kg



## Typical System Application



### Obstruction light system for telecom tower $\leq 45$ meters

#### double obstruction lighting system

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

### T90-YOL10D2YOL10S 48VDC obstruction lighting system for 45-90m tower

#### Functions & features

- One unit of YOL10D double light on the top height of tower
- YOL10D double and YOL10S single lights are integrated into one junction box
- Alarm output for double light
- Alarm output for single lights level
- Alarm output for power supply
- Alarm output for Photocell
- Photocell auto switch on/off the tower obstruction lighting system from dusk to dawn

### 1YML2000 3YOL32: Steady Medium intensity system

The height of structure more than 45meter but less than 105m, should install medium intensity on the top level and low intensity at the intermediate level

- Top level : 1 or 2 units medium intensity(YML2000) red Steady
- Intermediate level : 3 units L-810 low intensity(YOL32S) red steady burning, or 4 units if square tower

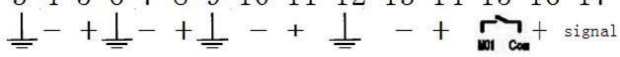
#### Note:

- Each level will be alarmed independently
- Any OB light of Each level failure will output alarm signal to control box

### Wiring method

Please connect the power cord according to the label instruction

  
 "Power" - controller power input

3 4 5 6 7 8 9 10 11 12 13 14 15 16 17  
  
 Lamp1 Lamp2 Lamp3 Lamp4 AL1 Photocell

Lamp1, Lamp2, Lamp3, Lamp4 - connect to aviation alarm-common 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