



# GOLDEN STATE INSTRUMENT CO.

## GS-20MX

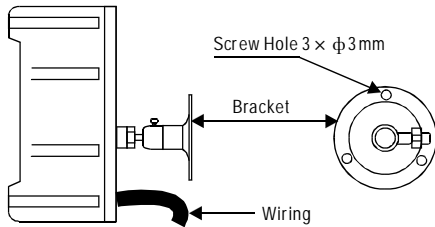
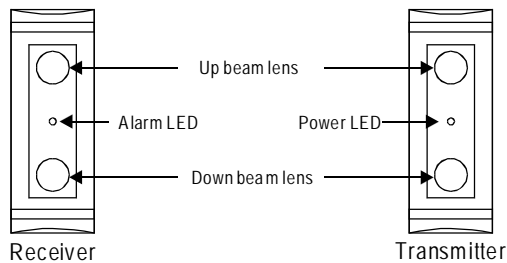
### PHOTOELECTRIC TWIN-BEAM SENSOR

### User's Manual

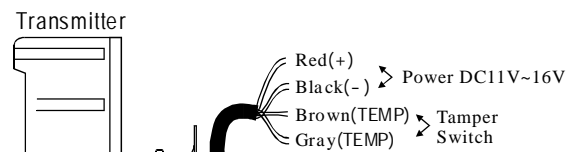
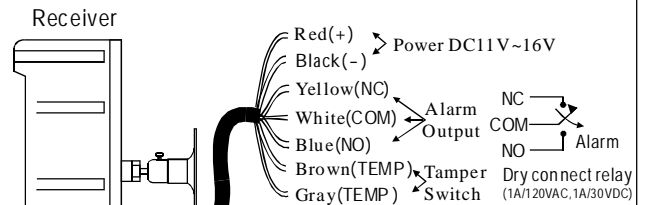
#### ● Description

GS-20MX is photoelectric twin-beam sensor. It can be mounted indoors or outdoors. If the twin-beams are obstructed, then the alarm mechanism will be triggered. With such high sensitivity, precision, and dependability, its the best choice for one's security line.

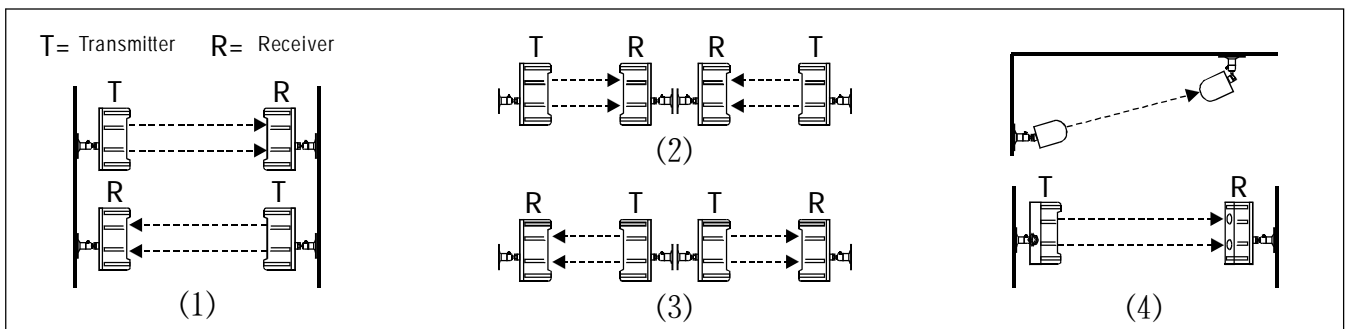
#### ● Parts Description



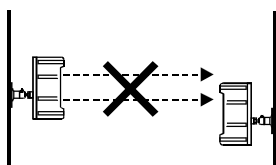
#### ● Wiring Diagram



#### ● Example Of Installation



#### ● Installation taboo



The receiver and the transmitter must on a straight line

(1)



Do not install in pet alley

(2)

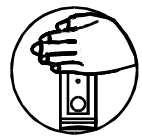


Do not install near obstructions

(3)

## ● Test method

1. It is recommended to use 2 individuals to conduct this test, one for the transmitter device and another for the receiver device。
2. Turn on suit power, when the transmitter is working normal the green LED will flash and when the receiver is working normal the red LED will be off(cover beams, red LED lighting)。
3. Attach the attenuation sheet on the receiver and transmitter's head(use black attenuation sheet for 20m~40m alarm distance and white attenuation sheet for alarm distances less than 20m). Attach and manually hold the attenuation sheet on the receiver, do the same for the transmitter. One person should hold the transmitter while another individual holds the receiver end. If the receiver's red LED turns on, then this means the receiver and transmitter are not on a straight line. Readjust the two sides until they are on a straight line and the red LED no longer is lit.
4. When the red LED is no longer lit you can begin testing the accuracy of the two devices. Use one hand to cover the transmitter's upper beam. The receivers red LED should not come on, if it does then go back to the previous step and check the alignment of both devices. Do the same and cover only the lower beam of the transmitter. The receiver's red LED should not come on either. Now cover both of the transmitters beams, the receivers red LED should come on and the alarm is thus triggered.
5. After completing this test carefully remove the attenuation sheet from each device. Firmly screw on each device to its mount to maintain it's now correctly alignment position.
6. Attach and manually hold each attenuation sheet once again to each of the two devices (Use the black attenuation sheet for 20m~40m alarm distances and the white attenuation sheet for less than 20m alarm distances). Check the alignment once again, and check if the receivers red LED is lit. If so then, the two devices are still not alignmented correctly and you must readjust the two devices again as detailed above. If the receivers red LED is not lit then proceed to the next step.
7. Cover the transmitter's upper beam leaving the lower beam unobstructed. No red LED should appear on the receiver. Try the same with the transmitter's lower beam leaving the upper beam unobstructed. There should also be no red LED appearing. If the above test passes , then this twin beam sensor has been installed correctly.



## ● Specification

Model	<b>GS-20MX</b>
Maximum Range	20m (Outdoor) 40m (Indoor)
Detection Method	Pulsed Infrared Beams
Beam Interruption time	60 msec( ± 20%)
Optical Adjustment	Vertical ±45° Horizontal ±350°
Alarm Output	NO. & NC. (1A/120VAC, 1A/30VDC)
Power	DC 11V ~ 16V
Current	30 mA
Operation Temperature	-10°C ~ 50°C
Weight	388 g(include bracket)

## ● Dimensions

