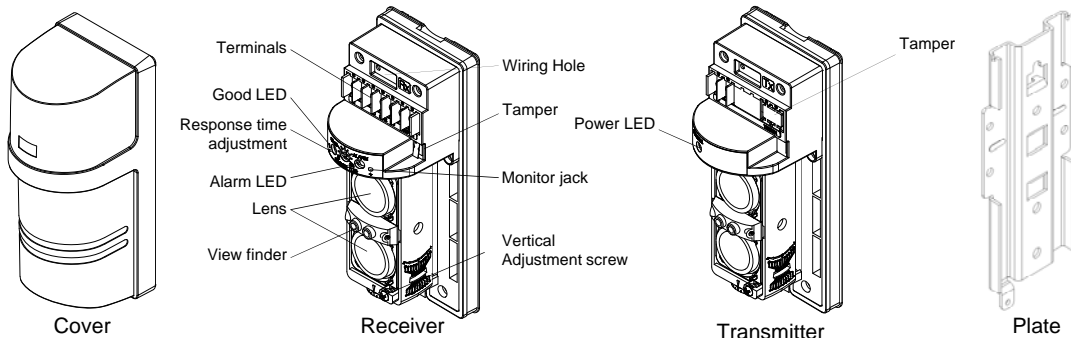


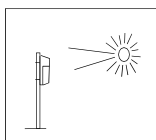
**Photoelectric Beam Detector
SASO-PB D**

Please note : This sensor is designed to detect intrusion and to initiate an alarm, it is not a burglar-preventing device. Maker is not responsible for damage, injury or losses caused by accident, theft, natural disasters, abuse, misuse, abnormal usage, faulty installation or improper maintenance.

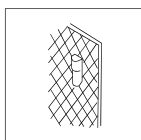
1. Description



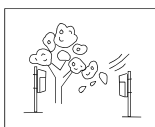
2. Cautions on Installation



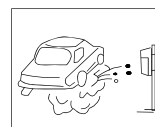
Avoid direct contact of sun, auto-mobile headlights etc. to transmitter or receiver



Do not install the unit on unsteady surfaces.



Do not install in a site where beams may be interrupted by trees or plants.

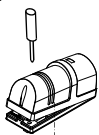


Do not install in places where units may be splashed continuously by dirty water or direct sea spray.

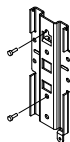
3. Installation

3-1. Wall mount

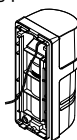
① Remove cover from unit and slide the mounting plate to detach it.



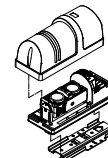
② Break grommet on mounting plate and pull wire through it. Secure the plate with 4mm screws.



③ When exposed wired, break knock-outs on the rear of unit, pull wire through as the figure and attach it to the mounting plate.

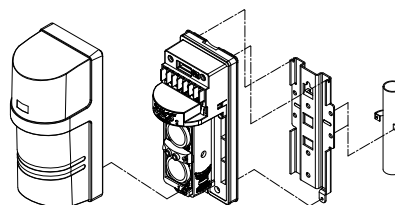


④ After wiring is completed, adjust alignment, check operation and attach cover.



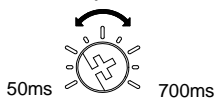
3-2. Pole mount (Pole size : $\Phi 38 \sim \Phi 44$ mm)

- ① Remove cover from unit and slide the mounting plate to detach it.
- ② Attach pole brackets to pole and secure to mounting plate with screws.
- ③ Attach sensor body.
- ④ Pull through wire.
- ⑤ Connect terminals.
- ⑥ After wiring is completed, adjust alignment, check operation and attach cover.



4. Response time

Response time adjustment



1. Run at full speed (6.9m/s) - 50msec.



2. Walk with quick steps (1.2m/s) - 200msec.



3. Walking (0.7m/s) - 300msec.



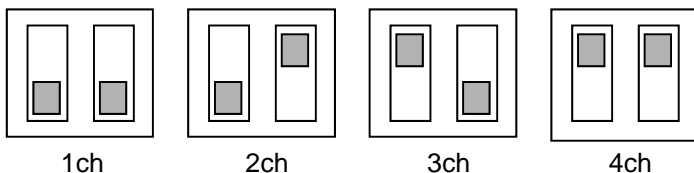
4. Walk with slow steps (0.5m/s) - 500msec.



5-6. Go over a fence(0.3m/s) - 700msec.



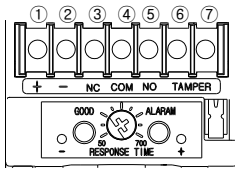
5. Channel setting



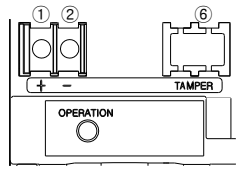
Purpose of this function is to prevent cross-talk or bypass of beams which may occur in line protection or 2-stacked protection.

6. Wiring

Receiver

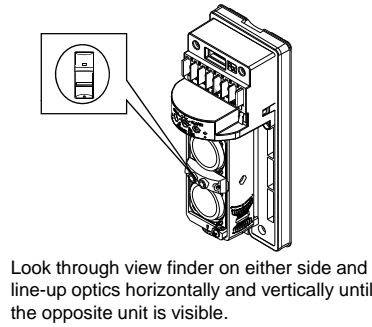
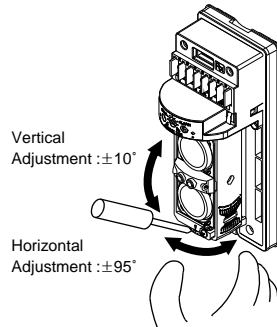


Transmitter

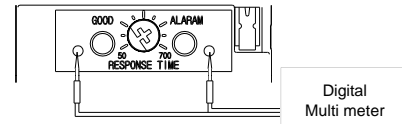


NO	Terminal configuration	NO	Terminal configuration
1	VCC : DC10.8~25V	5	Normal Open
2	GND	6	Tamper
3	Normal Close	7	Tamper
4	Common		

7. Adjustment and Monitoring



- Monitoring



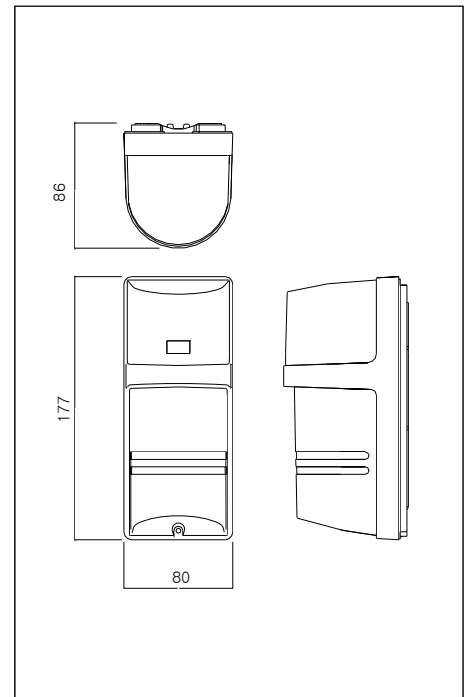
Monitoring	R:Green LED	Condition
Less than 3.0 V	OFF	Alignment again
Above 3.1 V	ON	Alignment Good

8. Trouble Shooting

Trouble	Possible cause	Possible Solution
Tx Power LED dose not light.	No power supply. Bad wiring connection or short.	Input DC 10.8 ~25V. Check wiring connection and repair if necessary.
Rx Alarm LED does not light when two beams are broken simultaneously.	No power supply. Bad wiring connection or short.	
No contact under the set condition	Resistor short.	Replace.
Good LED does not operate	Malfunction	Replace.

9. Specifications

Model	SASO-PB30D (4-ch)	SASO-PB60D (4-ch)	SASO-PB100D (4-ch)
Detection system	Simultaneous breaking of 2 beams		
Infrared beam	Double modulation pulsed beams by LED		
Protection range	Outdoor 30m Indoor 60m	Outdoor 60m Indoor 120m	Outdoor 100m Indoor 200m
Supply voltage	10.8V ~ 25V DC		
Current	Max. 60mA		
Response time	50 ~ 700 ms		
LED	Transmitter	Green LED ON : Power ON	
	Receiver	Green LED(Sensitivity Good) / Red ON : When an alarm is initiated	
Alarm output	Dry contact relay output 1C Contact action : Interruption time & delay time(2±0.5 sec) Contact capacity : 30V(AC/DC) 1A or less		
Tamper output	Dry contact relay output form N/C Contact action : Activated when cover is detached Contact capacity : 30V(AC/DC) 1A or less		
Temperature	-30℃ ~ 60℃		
Beam adjustment	Horizontal : 190° (±95°), Vertical : 20° (±10°)		
Mounting position	Outdoor / Indoor		
Material	PC resin		
IP rating	IP 54		
External dimensions	80 x 177 x 86 mm(WxHxD)		
Weight	Rx : 315g, Tx : 305g		
Function	Monitor jack output, Frost proof cover		
Option	Pole attachment(2pcs/set) / IP 54		



* Caution : Please refer to the instruction manual to ensure proper operation of the product.
Specifications and designs are subject to change without prior notice for improvement.



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