



SENGATE

50/100/200M QUAD PHOTOELECTRIC BEAM SENSOR

4PB-50AD/4PB-100AD/4PB-200AD



Anti-environment interference

Features:

- Anti-environmental interference and double stability
- Low infrared light ground reflection
- Double modulation of the synchronized pulse beam & 4 channel selectable beam frequencies
- A.G.C. (Automatic Gain Control) Circuit
- 99% beam blocking stability
- Environmental detection alarm output
- Wireless (RF) alignment function.
- Lightning Surge Voltage Level: 6,000V

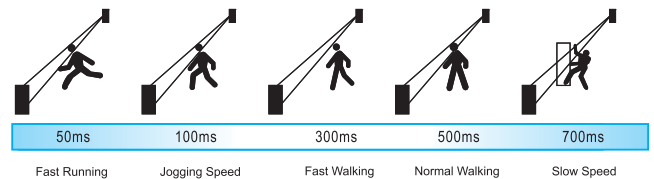
ISO 9001:2008  

50/100/200M QUAD PHOTOELECTRIC BEAM SENSOR

4PB-50AD/4PB-100AD/4PB-200AD

Feature :

- **Resistance to environmental interference**
Remain stable and durable under the harsh environment and climate interference
- **Low infrared light ground reflection**
Using "reflective concentrating lens" greatly reduces the reflection on the wall or ground, also reduces the data loss and missing report.
- **Double modulation of the synchronized pulse beam**
Double modulation of the synchronized pulse beam transfer & 4 channel selectable beam frequencies to enhance the capability of anti-environmental interfere
- **A.G.C. (Automatic Gain Control) Circuit**
(A.G.C.) Automatic gain control circuit loop can automatically correct signal strength when environmental climate changes, and maintain signal transmission and stable.
- **99% beam blocking stability**
Capable to withstand 99% beam energy attenuation and maintain normal operation stably
- **Environmental detection alarm output**
When an infrared signal is weak received due to dense fog, the environmental detection function alerts before the possible disconnection alarm occurs.
- **Wireless (RF) alignment function.**
Transmit focusing data through RF, individual user can quickly operate and focus
- **LIGHTNING PROTECTION**
Maximum Lightening induced surge protection to 6,000VDC.

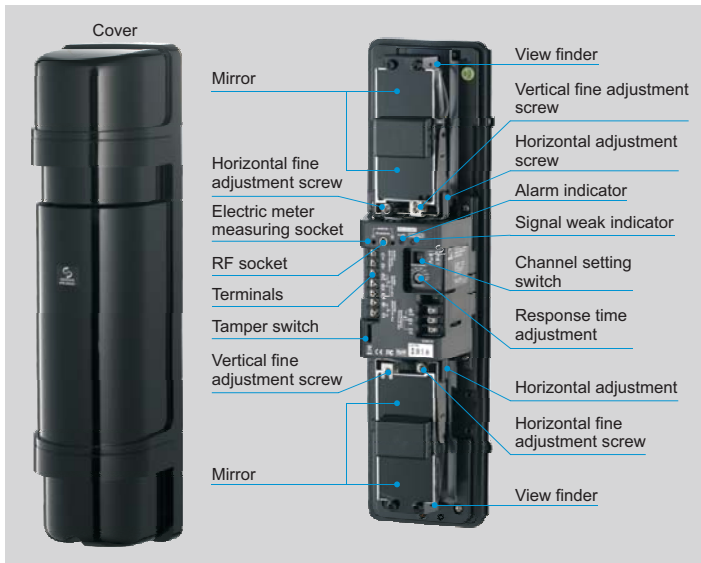
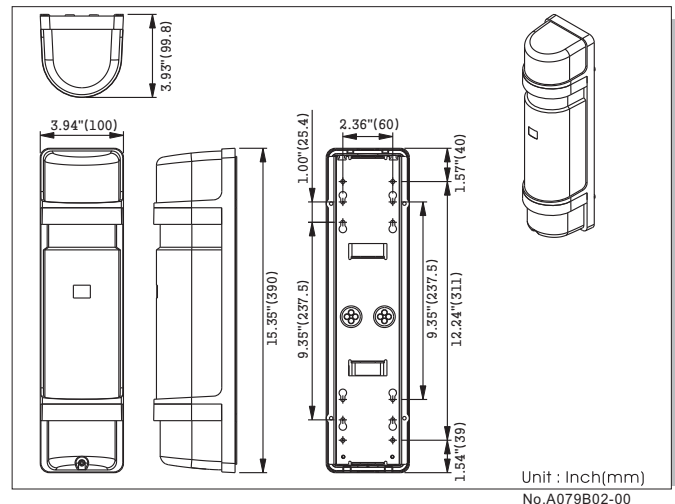


HEATING UNIT - HT-200 (OPTION PART)

For use in cold areas
(Temperature control switch inside),
24V DC/AC, 400mA max. (800mA/set)

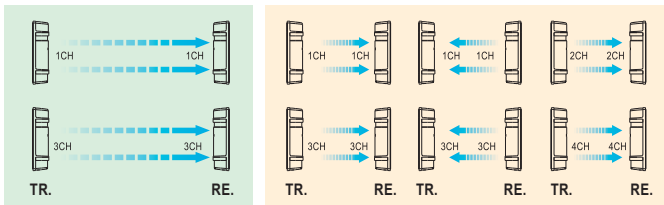


DIMENSIONS :



SELECTABLE 4-CHANNEL BEAM FREQUENCY

- 1 2-stacked protection.
- 2 Line and 2-stacked protection.



SPECIFICATIONS :

MODEL	4PB-50AD	4PB-100AD	4PB-200AD	
Detection Distance	Outdoor	150 ft. (50 m)	300 ft. (100 m)	600 ft. (200 m)
	Indoor	300 ft. (100 m)	600 ft. (200 m)	1200 ft. (400 m)
Max. Arrival Distance	1500 ft. (500m)	3000 ft. (1000 m)	6000 ft. (2000 m)	
Current Consumption	73mA (max)	83mA (max)	97mA (max)	
Selectable Frequency	4-channel			
Power Supply	10.5V ~ 30VDC (Non_Polarity)			
Infrared Photoelectric	LED pulsed beam, Double modulation			
Detection System	Simultaneous breaking of 2 beams			
Response Time	50msec ~ 700msec (Adjustable)			
Alarm Output	Dry connect relay NC. / NO. 0.2A / 28VDC Contact Action: 1 To 3 sec .			
Tamper Output	Dry connect relay NC. 0.2A / 28VDC Action : cover is detached.			
Environment Output	Dry connect relay NC. / NO. 0.2A / 28VDC Contact Action: Heavy mist situation			
Alarm LED	Red LED (Receiver) lights when an alarm is initiated.			
Attenuation LED	Yellow LED (Receiver) lights when beam is attenuated			
Functions	Anti-environment interference - A.G.C.(Automatic Gain Control)Circuit			
Alignment Angle	Horizontal ± 90°, Vertical ± 10°			
Operating Temperature	-13°F to +131°F (-25°C to +55°C)			
Mounting Positions	Indoor / Outdoor			
Wiring	Terminals			
Weight	Transmitter (1385g) & Receiver (1485g)			
Dimensions	W100 x H390 x D99.80 mm			
Standard Accessories	U-Shaped Brackets x 4 , Attenuation Sheet x 2 Screws (4x20 Self tapping) x 8 , Screws (M4 x 20) x 8			
Option	Heating Unit (HT-200)			

NOTE :

1. This unit is designed to detect an intruder and activate an alarm control panel.
Being only a part of complete system, we cannot assume responsibility for theft or damages, should it occur.
2. Specifications and design are subject to change without prior notice.

