

WIRED MODEL SIR05A WIRELESS MODEL SIR05RA





Product name		Intelligent outdoor detector		
Model		SIR05A	SIR05RA	
Power		10.5 – 28.0 V DC	3.0 – 9.0 V DC	
Current draw		25 mA (maximum)	25 μA (standby) 4 mA (maximum)	
Operating temperature and humidity range		-25 - +50°C RH 95% or less	-20 - +50°C RH 95% or less	
Storage temperature and humidity range		-30 - +60°C RH 95% or less		
Installation height		0.8 – 1.2 m		
Detection area		12 m, 88°		
Detection zone (sector)		14 pairs (42 sectors)		
Detection method		Passive infrared system		
Indicator lights	Self-diagnostic	Flashing (or	(once a second)	
	Power supply monitoring	Flashing (five	Flashing (five times a second) High	
	Warm-up	Flashing 1 minute (three times, twice or once a second)		
	Anti-masking	Flashing (five times a second)		Priority
	Test mode	Upper stage mirror : Flashing (once every 2 second) Low	ver stage mirror : Flashing (twice every 2 second)	↓ j
	Detection	Lig	ting Low	
	AUX input	Lighting (while switch 6 is ON and the AND condition is satisfied)		1
Detection output		Non-voltage contact (1a/1b selectable) Contact operation : One-shot (2 seconds) Contact capacity : 30 V DC 0.3 A (resistance load) Output resistance when closed : 3 Ω or less	Non-voltage contact (1a/1b selectable, Solid state switch) Contact operation : One-shot (2 seconds) Contact capacity : 9 V DC 0.01 A (resistance load) Do not apply voltage higher than the Power input voltage.	
Anti-Masking output		Non-voltage contact (1b) Contact operation : When masking is performed for one minute or more Contact capacity : 30 V DC 0.3 A (resistance load) Output resistance when closed : 3 Ω or less		
Tamper output		Non-voltage contact (1b) Contact operation : Open when the cover is open Contact capacity : 30 V DC 0.1 A (resistance load) Output resistance when closed : 3 Ω or less		
Trouble output			Non-voltage contact (1a/1b selectable, Solid state switch) Contact operation : Open when masking is performed Contact capacity : 9 V DC 0.01 A (resistance load) Do not apply voltage higher than the Power input voltage.	
Detection speed		0.3 – 2.0 m/sec		
Detection sensitivity		1.5°C (temperature difference with background) Walk speed : 1 m/sec Environment temperature : +35°C Sensitivity setting : 100°		
Main device adjustable range		Horizontal ±54°, vertical ±5°, and 6-step distance adjustment (2.5~12m)		
Installation location		Installation location Wall/pole, Indoor/outdoor (IP55)		
Weight		350 g	450 g	
Color		White (E	(DIC G-21)	

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Synyu Watcher MADE IN JAPAN

OUTDOOR WIRELESS

Adoption of mirrors achieves a high detection sensitivity!

FRIENDLY DETECTOR **DEBUTS!**

ATSUM





Adoption of the mirror lead to zero false alarm.

POINT-1

Alarm signal is output when Upper(Blue) and Lower(Green) sensors detect objects simultaneously.



POINT-2

Achieve a high detection sensitivity in the adoption of the mirrors

- Since the edge of the detection zone of the mirror is sharp, the detection sensitivity is high.
- As the coverage of the detection zones are not affected by the temperature of the objects and the background, the position of the zone is accurate. Therefore the detection accuracy is high.



POINT-3

SCAA (Super Compound Analysis Algorithm)

SCAA is newly designed for Digitally controlled 2 sensors in the Vertical double stage with the horizontally shifted sensor elements. SCAA plays an effective role for high detectivity and high rejection ratio of false alarms.



As Sector A and B are facing different direction, the light from one direction is not detected simultaneously and does not trigger an alarm.



As distance between Sector A and B is wide enough, and they are facing different direction, flying objects are not detected simultaneously and does not trigger an alarm.



As Sector A and B are facing different direction, when vegetation sways by wind, it is not detected simultaneously and does not trigger an alarm.





As the whole mirror units is adjustable vertically so that it is easy to fit to the slope ground. The upper stage zone should parallel the slope ground. The adjustable angle is $\pm 5^{\circ}$ (± 1 m at 12m away)

POINT-5

Wireless operation for SIR05RA



Wireless Transmitter of your system can be built in SIR05RA. SIR05RA is designed as the low current consumption and it is enable to be powered by the battery.

Mirror masking

LED indicator

Pulse count

If objects (e.g. vegetation, spring, garage,sidewalk,etc.) which make false alarms are in the detection area, these objects can be virtually removed by masking the corresponded parts of the mirror.

Masking zone

Pulse count can be set according to the environment

conditions to eliminate false alarms.



The

External light filter

LED indicator lights when the alarm is output. In testing mode, Upper and Lower sensors light LED independently so that it is easy to recognize which one activates LED.LED lights brighter in test mode than normal operation for easy installation.

Tough design for Outdoor

Adoption of the weatherproof grade plastic material and IP55 mechanical structure allows to use outdoor stably.







The lower stage sensor has 2 layer zones. In case masking the upper zone of the lower stage, the lower zone of the lower stage still cover the area near SIR05.

Cut off the unwanted external lights to eliminate false alarms.

Power save

In case the number of detection increases, the number of alarm output is limited to save the battery life time.

Anti masking

In case the detector is masked, the trouble signal is output.

Wall tamper (Option)

Wall tamper outputs the tamper signal when SIR05 is removed from the wall.

Mounting to Wall or Pole

Pole diameter is selectable according to your application. Note: The suitable metal band for mounting base and pole should be chosen.