



Synyu Watcher

Make the safety life by Atsumi

Data sheet

Outdoor intelligent PIR detector

SIR05A : Wired detector

SIR05RA : Wireless detector

Features

1. Models
 - 1) SIR05A Wired
 - 2) SIR05RA Wireless
2. Pet immunity
3. Flexible and Adjustable detection area
 - 1) Detection zone
 - 2) Distance
 - 3) Slope
 - 4) Inclined wall
 - 5) Zone masking
4. Countermeasures to False alarm
 - 1) Sunlight, Head light of vehicle
 - 2) Flying objects
 - 3) Tree, Vegetation
 - 4) Pulse count
5. Anti-Masking
6. Battery operated detector
7. Mirror Optics and Masking zone
8. SCAA (Super Compound Analysis Algorithm)
9. LED indicator
10. IP rate



Certifications and approvals

Europe : CE : EN61000-6-3:2007 +A1:2011 , EN50130-4:2011

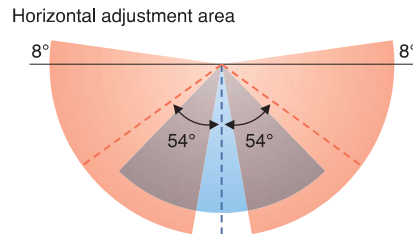
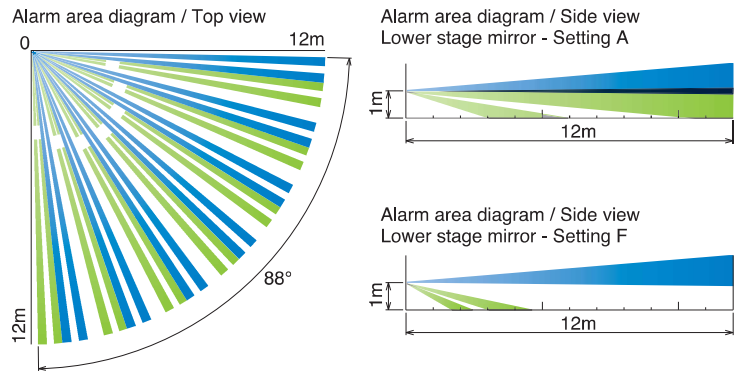
Synyu Watcher

WIRED MODEL **SIR05A** WIRELESS MODEL **SIR05RA**

SIR05A/SIR05RA Dimensions (Unit : mm)



Detection area



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 (once a second)	High ↑ Priority ↓ Low
	Power supply monitoring	Flashing (five times a second)	
	Warm-up	Flashing 1 minute (three times, twice or once a second)	
	Anti-masking	Flashing (five times a second)	
	Test mode	Upper stage mirror : Flashing (once every 2 second) Lower stage mirror : Flashing (twice every 2 second)	
	Detection	Lighting	
AUX input	Lighting (while switch 6 is ON and the AND condition is satisfied)	—	
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 (DIC G-21)		



ATSUMI ELECTRIC CO.,LTD