TAKEX

SECURITY (SENSOR)

HIGH PERFORMANCE TRIPLE MIRROR PIR SENSOR

PIR-T15WE PIR-T15AM(^{with} ANTI-MASK)

WIDE-ANGLE PROTECTION UP TO 49' (15m) x 80°

PIR-T40NAM(^{with} ANTI-MASK)

VERTICAL CURTAIN PROTECTION UP TO 135' (40m) x 10.5' (3.2m)

FEATURES

- Selectable operation modes; low & high positions, pet (PIR-T15WE/AM), middle (PIR-T40NAM), & high-density
- Up to 49' (15m) x 80° coverage (PIR-T15WE/AM)
- Up to 135' (40m) x 10.5' (3.2m) соverage (PIR-Т40NAM)
- 6.6' (2m) to 20' (6m) Installation height (depending on operation mode)
- High-performance triple mirror optical system
- Precise detection area adjustment function
- Anti-masking function (PIR-T15AM/40NAM)
- Lightning surge protection
- Suitable for indoor and outdoor use (IP55)

A unique triple mirror optical system with signal processing technology eliminates nuisance alarms from small animals

TRIPLE MIRROR OPTICAL SYSTEM

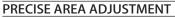
The unique combination of triple mirrors and three twin pyros enable selectable operation modes including low position, high position, pet mode (PIR-T15WE/AM), middle position (PIR-T40NAM) and high- density; from a mounting height of 6.6' (2m) to 20' (6m).

OPTIMISED DETECTION AREA

The triple mirror optical system features a geared mirror array allowing detection patterns to be dynamically optimised for maximum performance depending on the chosen mounting height and operation mode.

PET IMMUNITY

Independently controlled pyro devices in each optical unit use intelligent signal processing to eliminate nuisance alarms from small animals, and a dedicated pet operation mode (PIR-T15WE/AM) further enhances performance against medium-sized animals.



Precise detection area adjustment is made possible by projecting coloured LED's onto the surface of each mirror -visible only from inside the detection zone during the alignment process- allowing sensitive zones to be fine-tuned to individual site requirements as desired. Unnecessary areas can be cancelled using the supplied area-masking sheet.

DESIGN CONSCIOUS

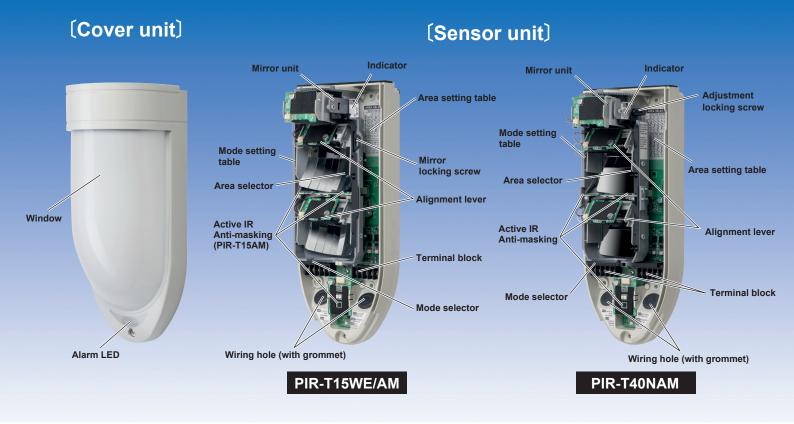
The unassuming design of the PIR-T series allows it to blend discreetly into any industrial, commercial or domestic environment, and the internally adjustable optic system helps to conceal the detection area and direction for more secure protection.

OTHER FUNCTIONS

Enhanced features including creep zone detection, near area cancellation, dual outputs, and lightning surge protection make the PIR-T series a key addition to the TAKEX family of high performance intrusion detection sensors.



$\langle \mathsf{PARTS} \ \mathsf{DESCRIPTION} \rangle$



High performance



Triple mirror optical system

Triple mirror optical units combined with fuzzy logic signal processing substantially reduce nuisance alarms and activations.



Pet immunity

A dedicated pet operation mode(PIR-T15) further enhances discrimination performance against medium-sized animals in the detection area.



Detection area checking function

The unit is equipped with an LED detection area checking function for precise area adjustment and control.



Weather proof housing

The lid is designed to channel rain and snow away from the front surface of the sensor preventing nuisance alarms.



Anti-masking (PIR-T15AM/PIR-T40NAM)

An anti-masking alarm output signals any attempt to shield or cover the unit.



Flexible mounting height

Enhanced features

Installation height of 6.6' (2m) to 11.5' (3.5m) for normal operation (max. 20' (6m) in specialised operation mode).



Detection area adjustment

The mirror unit can be adjusted for optimal area setting.

 $\begin{array}{l} \mathsf{PIR-T15WE/AM} &: \mathsf{Horizontal} \pm 45^\circ, \mathsf{Vertical} \ 17^\circ\\ \mathsf{PIR-T40NAM} &: \mathsf{Horizontal} \pm 90^\circ, \mathsf{Vertical} \ 17^\circ \end{array}$



Pole/Ceiling mounting

Various pole attachment brackets are available (sold separately).



Dual output

A second N.O. output is provided for signalling external devices.



Insect/Water protection

Suitable for indoor and outdoor use (IP55).



Lightning protection

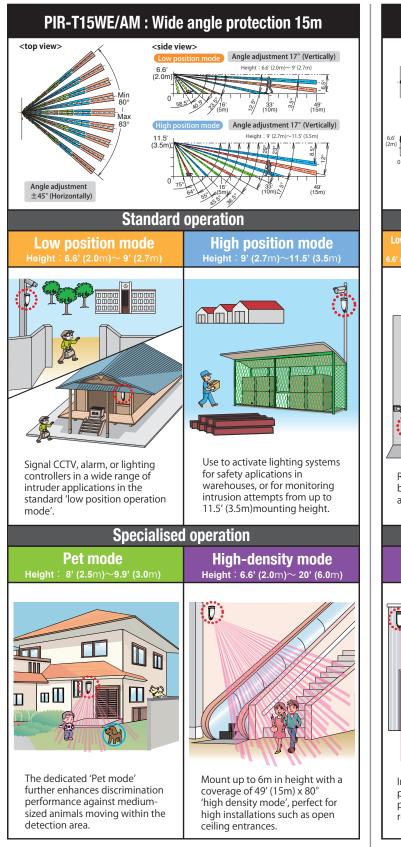
Enhanced protection from induced lightning and other electrical surges.



Environmental design

RoHS Cer Cac

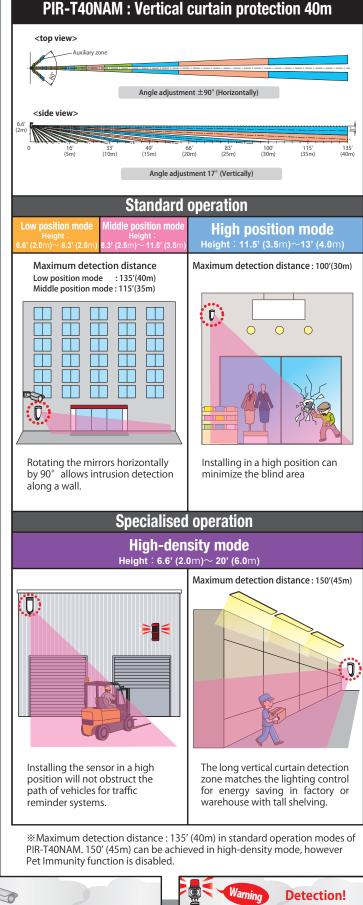
Certified RoHS compliant: free from Lead, Mercury, Cadmium, Hexavalent Chromium, Polybrominated biphenyl, Polybrominated diphenyl ether.



% Maximum detection distance : 49' (15m) in all operation modes of PIR-T15WE/AM.

Feature of Passive sensors

Possible to detect a human through fog.



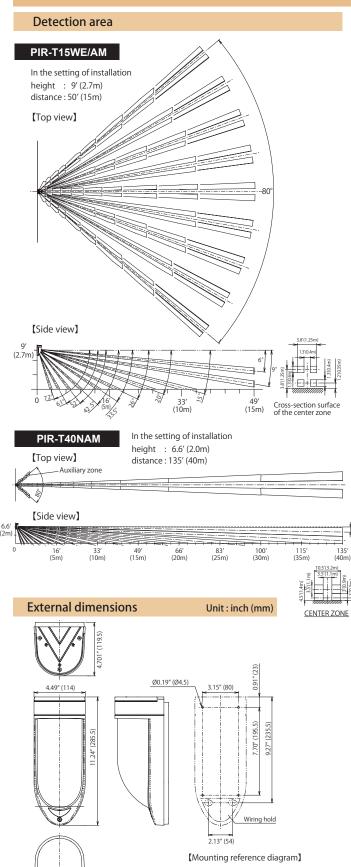




Invisible by eye and CCTV

The passive sensor can detect

TRIPLE MIRROR PASSIVE SENSOR



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Terminal configuration

1 Power input (non-polarity) 9 to 28V DC/Max. 40mA

3 4 Alarm output - Contact method : Dry semi-conductor contact N.O./N.C. selectable 234567890

- 5 LED control input (L/C) Control lighting on/off of the alarm LED
- **2 8** Tamper output Contact method : Dry mechanical contact N.C.
- **9 10** Output for external device : Dry semi-conductor contact N.O.

6 7 Anti-masking output - Contact method : Dry semi-conductor contact N.C. (PIR-T15AM/40NAM model only)

Specifications

Model number Detection system	PIR-T15WE	PIR-T15AM	PIR-T40NAM
Detection system		0	
		Passive infrared	1
Detection area	Wide angle (80°) detection Detection distance : 49'(15		Vertical curtain distance Detection distance: Max 150'(45m), 46 rays (23 pa
Power supply	9 to 28V DC (non-polarity)		
Current consumption	Max. 40mA Max. 50mA		
Alarm output	Contact method : Dry semi-conductor contact, N.C./N.O. selectable Contact operation : One-shot operation when detecting intrusion Continuous output in the event of cover monitor error Continuous output in the event of self diagnosis error Continuous output in the event of self diagnosis error Continuous output in the event of power voltage error Continuous output in the event of long-term diagnosis error (PIR-T1 Contact rating : 24V (AC/DC) 0.25A (resistive load) (built-in contact protective resistor 3.3Ω)		
External output	Contact method : Dry semi-conductor contact N.O. Contact operation : One-shot operation/Off delay operation selectable when detecting intrusion Contact rating : 24V (AC/DC) 0.25A (resistive load) (built-in contact protective resistor 3.3Ω)		
Tamper output	Contact method : Dry mechanical contact, N.C. Contact operation : Continuous output Contact rating : 24V (AC/DC) 0.1A (resistive load) (built-in contact protective resistor 3.3Ω)		
Anti-masking output	Contact method : Dry semi-conductor contact N. Contact operation: Continuously output when an object placed in front of the lens (until normal recovery) Contact rating: 24V (AC/DC) 0.25A (resistive load) (built-in protective resistor 3.3Ω)		
Alarm LED	Red LED :Blinks* during warm up Lights up* when detecting intrusion Continuously blinks in the event of cover monitor error Continuously blinks in the event of self diagnosis error Continuously blinks in the event of power voltage error Continuously blinks in the event of long-term diagnosis error (PIR-T15 Continuously blinks in the event of normasking error (PIR-T15AW/40NAW (*ON/OFF selectable using the mode selector)		
Memory LED	Red LED : Blinks for 3 minutes during memory display, Auto reset operation either of continuous lighting for 47 minutes or blinking for 50 minutes selectable (Blinks to lights/blinks, ON/OFF selectable using the mode selector)		
Functions	Sensitivity selection, Operation mode selection, Alarm memory LED, Selfdiagnosis, Low voltage monitoring, Temperature compensation, Tamper, LED area checker, Environmental adjustment, Creep zone detection, Walk test mode, Near area cancellation, Long-term diagnosis (PIR-T15AW/40NAM) Anti-masking (PIR-T15AM/40NAM)		
	6.6' to 20'(2.0 to 6.0n	n) (varies depending on t	he operation mode)
Mounting positions	• Low position mode : 6.6' • High position mode : 9' t	' to 9' (2.0 to 2.7m) o 11.5'(2.7 to 3.5m) ' to 10'(2.5 to 3.0m)	Low position mode : 6.6' to 8.3'(2.0 to 2.5m) Maximum detection distance: 135'(Middle position mode : 8.3' to 11.5'(2.5 to 3.5m) Maximum detection distance: 15'(High position mode : 11.5' to 13'(3.5 to 4.0m) Maximum detection distance: 15'(High density mode : 6.6' to 20'(2.0 to 6.0m) Maximum detection distance: 15'(High density mode : 1.6' to 20'(2.0 to 6.0m) Aximum detection distance: 15'(High density mode : 1.6' to 20'(2.0 to 6.0m) Aximum detection distance: 15'(High density mode : 1.5' to 15'(High density mode : 1.6' to 20'(2.0 to 6.0m) Aximum detection distance: 15'(High density mode : 1.5' to 15'(
Area angle	Horizontal direction : ±45°		$\pm 90^{\circ}$ (in 5° steps)
adjustment range	Vertical direction : 17°		17° (no stage adjustme
Ambient temperature range	-25~+55°C(no condensation and freezing) Indoor/outdoor wall surface		
Installation place	*Can be mounted on poles and ceilings (or under eaves) using optional accessories		
IP rating	IP55		
Connections	Terminals (M2.6 self up terminal)		
Weight	Approx. 600g		
Appearance	Body, Window : resin		
		ole attachment BP-02>	• Ceiling attachment

Please note:

This sensor is designed to detect intrusion and to initiate an alarm; it is not a burglary or a crime preventing device. TAKEX is not responsible for damage, injury or losses caused by accident, theft, Acts of God (including inductive surge by lightning), abuse, misuse, abnormal usage, faulty installation or improper maintenance.

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