



Data Book

2011/2012

Occupancy Detector & Motion Sensor

NEX Office

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Q House Lumpini, 1 South Sathorn Rd., 27F,
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Product Overview

Occupancy Detector

Model	Installation Type	Micro Detection Area at 2.5m height	Macro Detection Area at 2.5m height	Max. Loading (cos f=1 resistive)	Rating
PAS21 	ceiling - flush	360° x 5m dia.	360° x 10m dia.	2000 W	IP20
PAS22 	wall / ceiling	360° x 5m dia.	360° x 10m dia.	2000 W	IP44
ES253 	ceiling	360° x 6m dia.	360° x 12m dia.	2000 W	IP20
ES254 	ceiling	360° x 6m dia.	360° x 12m dia.	2000 W	IP20
ES256 	ceiling	360° x 6m dia.	360° x 12m dia.	Channel1:2000W Channel2:5A	IP20
ES203 	ceiling - flush	360° x 6m dia.	360° x 12m dia.	2000 W	IP20
ES204 	ceiling - flush	360° x 6m dia.	360° x 12m dia.	Channel1:2000W Channel2:5A	IP20
PES31 	wall / ceiling	360° x 6m dia.	360° x 32m dia.	2300 W	IP55
PES41 	ceiling - flush	360° x 6m dia.	360° x 30m dia.	Channel1:2300W Channel2:3A	IP20
PES44 	ceiling - flush	360° x 5m dia.	N/A	2300 W	IP20
PES46 (M) 	ceiling - flush	360° x 2m dia.	N/A	200 W	IP20
PES46 (S) 	ceiling - flush	360° x 10m dia.	N/A	N/A	IP20

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Product Overview

Motion Sensor

Model	Installation Type	Micro Detection Area at 2.5m height	Macro Detection Area at 2.5m height	Max. Loading (cos f=1 resistive)	Rating
ES205 	wall – 3 wire	N/A	110° x 10m	2000 W	IP44
ES214 	wall – 2 wire	N/A	110° x 10m	2000 W	IP44
PAM22 	ceiling (flush)	N/A	360° x 10m dia.	2000 W	IP20
PAM23 	wall / ceiling	N/A	360° x 10m dia.	2000 W	IP44
ES208 	wall	N/A	110° x 10m	2000 W	IP20
ES209 	wall	N/A	30° x 25m	2000 W	IP20
PAM41 	wall / ceiling	N/A	110° x 12m 180° x 12m	1000 W	IP44
PAM42 	wall / ceiling	N/A	110° x 12m 180° x 12m	1000 W	IP44
PAM43 	wall / ceiling	N/A	110° x 12m 180° x 12m	1000 W	IP44
PAM21 	wall / ceiling / corner	N/A	240° x 12m	2000 W	IP55

Optional accessories

MF001-0	Inrush current protector
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Occupancy detector

PAS21

2000 W

360° flush ceiling mount
occupancy detector



PIR Sensor

Feature

- 360° micro motion detectable
- Ceiling flush mount
- Brightness sensor inside for smart control
- Support smart turn off function
- Run-on time adjustable
- Ambient lux. setting adjustable
- Up to 1500W loading for fluorescent (T5)
- Smart Relay™ inside

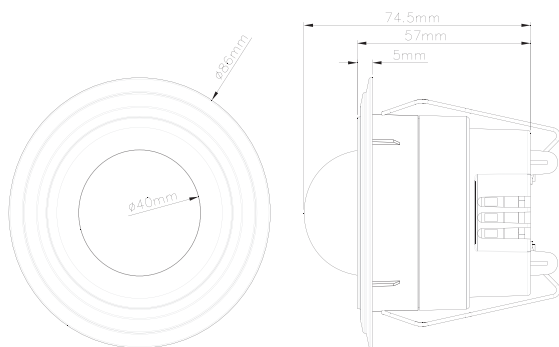
Patent :

M399426 / 202010012599.5 / CN201780930U

Specifications

Power requirement	220 ~ 240VAC / 50Hz
loading	2,000W for resistance 2,000W for halogen & incandescent 1,500W for fluorescent (T5)
Detection angle	360°
Detection Range @2.5m height	Φ = 6m for micro motion Φ = 12m for walk toward motion
Run-on time setting	10 sec. ~ 40 min,
Ambient light setting	30 ~ 200 Lux.
Operation mode	Auto
Warm-up time	Approximately 1 minute
Smart Relay	Yes (Ver2.0+)
Isolation Protection	Class II
Water proof	IP20
Working temp.	-10°C ~ +40°C
Storage temp.	-20°C ~ +70°C
Power consumption	1W maximum
Dimension (dia.*D)	Φ86mm * 74.5mm depth
Regulation	EN60669-1, EN60669-2-1, EN61000-6-3, EN61000-6-1

Dimension: mm (inch)



Ordering information

PAS21-0 2000W flush ceiling mount occupancy detector

Option

MF001-0 Inrush current protector

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Occupancy detector

PAS21

2000 W

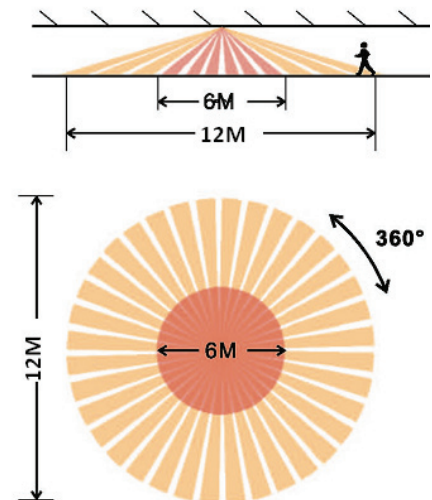
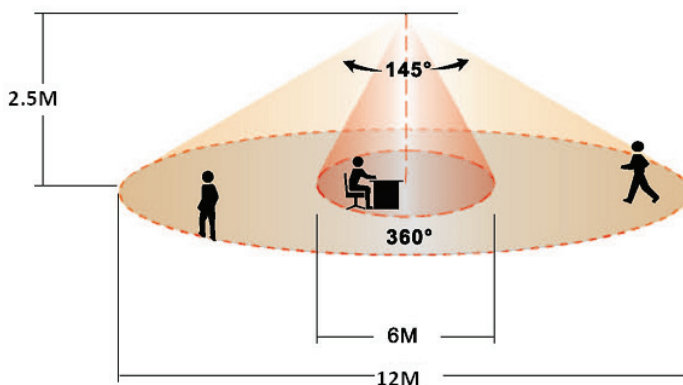
360° flush ceiling mount
occupancy detector



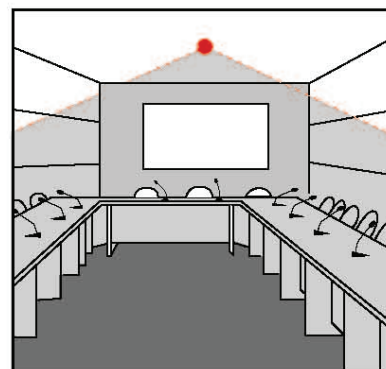
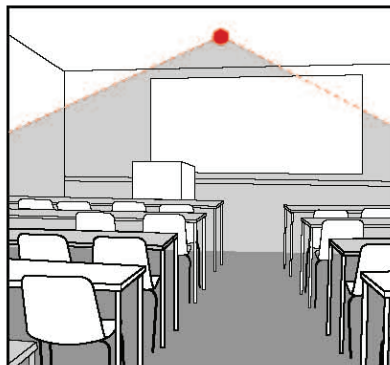
PIR Sensor

Detection Area - 360°

Installation height	Sitting	Walking
2.0 meter		
2.5 meter	28.27 M ² 3m x 3m x 3.14	113 M ² 6m x 6m x 3.14
3.0 meter		



Application Example



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Occupancy detector

PAS21

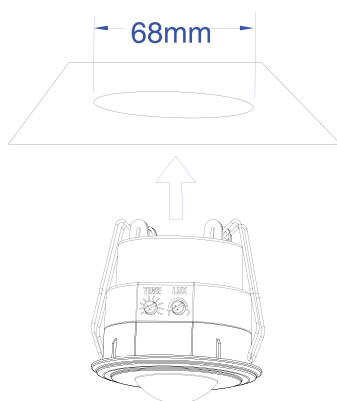
2000 W

360° flush ceiling mount
occupancy detector

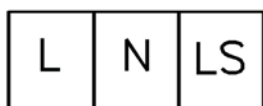


PIR Sensor

Installation



Wiring Terminals

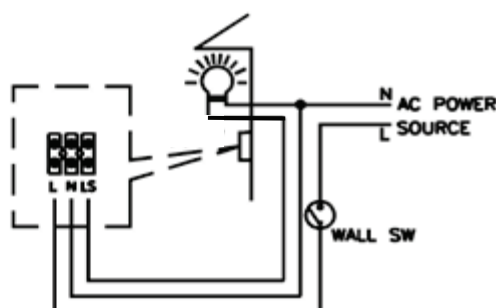
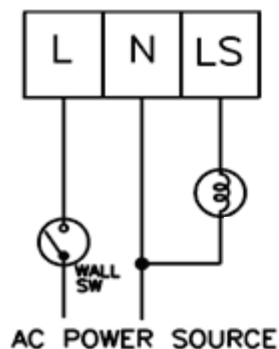


L : AC power input

N : AC power input

LS : AC power output to load

Connection Example



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Occupancy detector

PAS22

2000 W

360° ceiling surface mount
occupancy detector



PIR Sensor

Feature

- 360° micro motion detectable
- Ceiling surface mount design
- Brightness sensor inside for smart control
- Support smart turn off function
- Run-on time adjustable
- Ambient lux. setting adjustable
- Up to 1500W loading for fluorescent (T5)
- Smart Relay™ inside

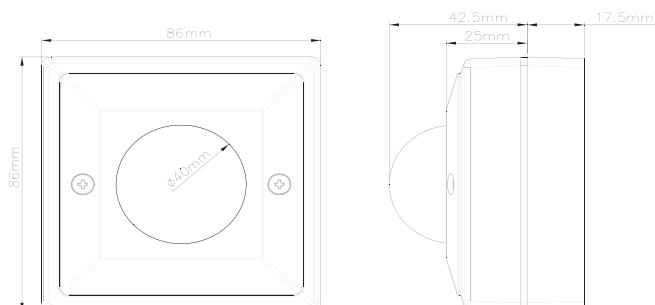
Patent :

M399426 / 202010012599.5 / CN201780930U

Specifications

Power requirement	220 ~ 240VAC / 50Hz
loading	2,000W for incandescent 2,000W for halogen 1,500W for fluorescent (T5)
Detection angle	360°
Detection Range @2.5m height	Φ = 6m for micro motion Φ = 12m for walk toward motion
Run-on time setting	10 sec. ~ 40 min,
Ambient light setting	30 ~ 200 Lux.
Operation mode	Auto
Warm-up time	Approximately 1 minute
Smart Relay	Yes (Ver2.0+)
Isolation Protection	Class II
Water proof	IP44
Working temp.	-10°C ~ +40°C
Storage temp.	-20°C ~ +70°C
Power consumption	1W maximum
Dimension (W*L*D)	86mm*86mm*42.5mm
Regulation	EN60669-1, EN60669-2-1, EN61000-6-3, EN61000-6-1

Dimension: mm (inch)



Ordering information

PAS22 2000W ceiling surface mount occupancy detector

Option

MF001-0 Inrush current protector

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Occupancy detector

PAS22

2000 W

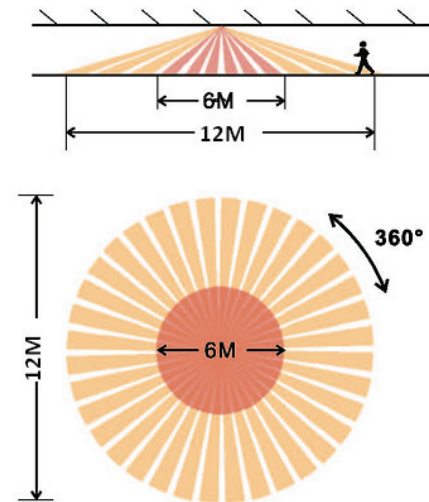
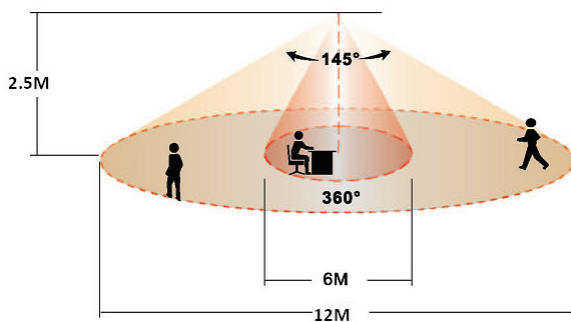
360° ceiling surface mount
occupancy detector



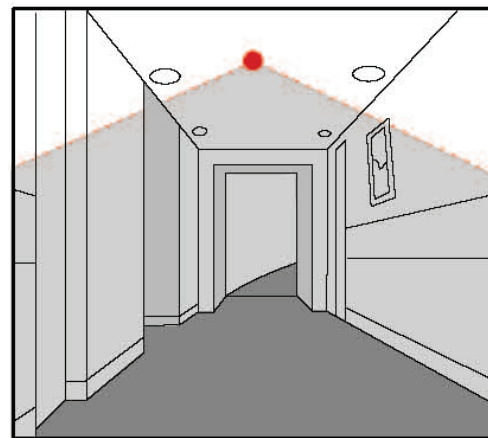
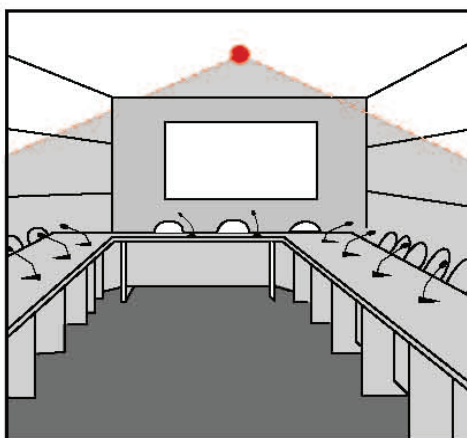
PIR Sensor

Detection Area - 360°

Installation height	Sitting	Walking
2.0 meter		
2.5 meter	28.27 M ² 3m x 3m x 3.14	113 M ² 6m x 6m x 3.14
3.0 meter		



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Occupancy detector

PAS22

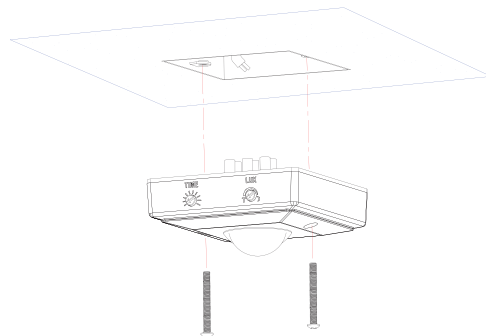
2000 W

360° ceiling surface mount
occupancy detector

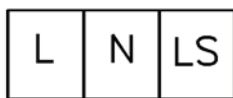


PIR Sensor

Installation



Wiring Terminals

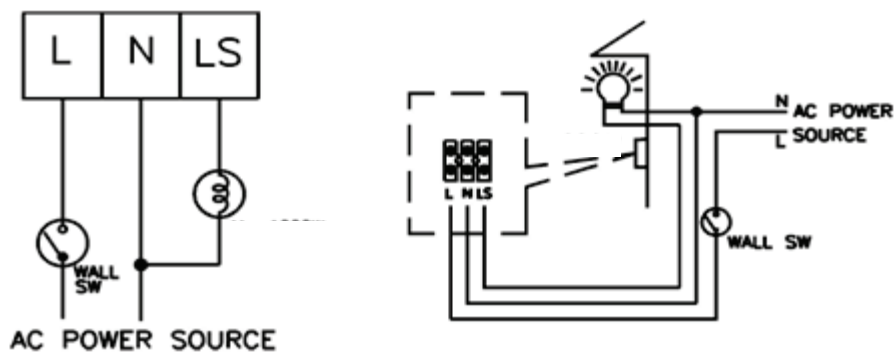


L : AC power input

N : AC power input

LS : AC power output to load

Connection Example



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ES214

110°

2000 W

surface mount

two-wired wall sensor switch



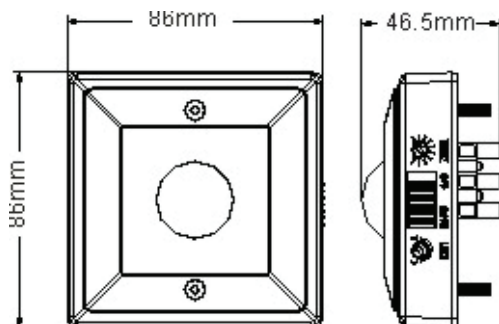
Feature

- 110° motion detection up to 10 meter wide range
- Two-wired wall surface mount mechanism
- Powered by rechargeable battery
- Operation mode : Auto / Off
- Ambient lux. setting adjustable
- Run-on time adjustable
- Up to 2000W lighting loads
- LED indicator for low battery and charging
- IP20 for indoor use

Specifications

Power requirement	220 ~ 240VAC / 50Hz
loading	Min. 40W ~ Max. 2,000W for incandescent, or 480VA for fluorescent
Detection angle	110°
Detection range	110° x 10m at 20° C Recommended mounting height : 1.2 ~ 1.5 m for wall mount
Run-on time setting	5 sec. ~ 40 min. (10 selections)
Ambient light setting	30 ~ 200 lux.
Operation mode	Auto / Off
Warm-up time	Approximately 1 minute
Battery type	Lithium 3.7V
Isolation Protection	Class II
Water proof	IP20
Working temp.	0°C ~ +40°C
Storage temp.	-20°C ~ +70°C
Power consumption	Less than 0.5 W
Regulation	EN60669-1, EN60669-2-1, EN61000-3-2, EN61000-3-3

Dimension : mm (inch)



Ordering information

ES214 110° two-wired surface mount wall sensor switch

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Motion Sensor

PIR Sensor

ES214

110°

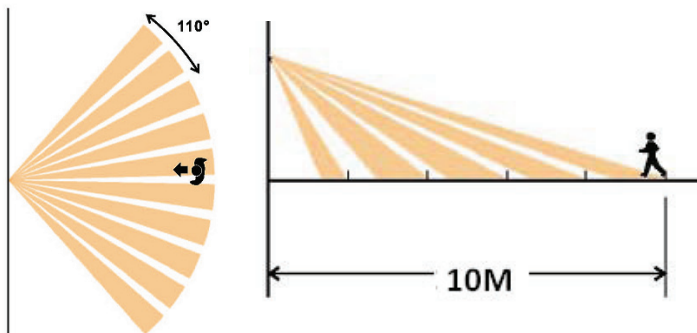
2000 W

surface mount

two-wired wall sensor switch

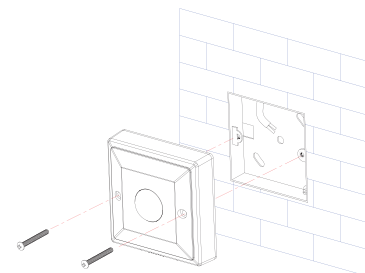
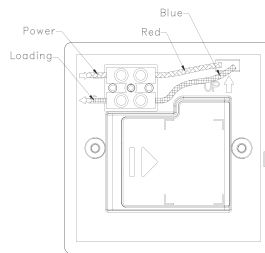
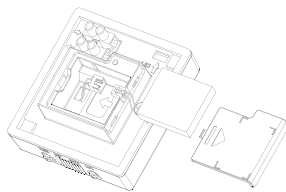


Detection Area - 110°

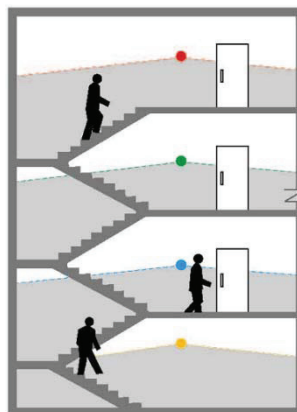


Connection Example

Installation



Application Example



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PAM41

110° /180°

1000 W

wall/ceiling mount
motion sensor



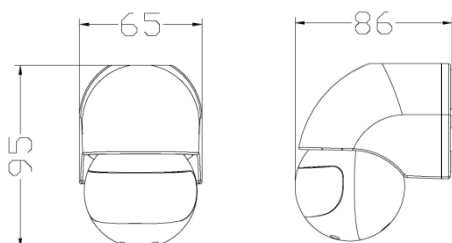
Feature

- 110°/180° motion detection up to 12 meter wide range
- Wall/ceiling mount mechanism
- Operation mode : On / Off / Manual Override
- Ambient lux. setting adjustable
- Run-on time adjustable
- Up to 1000W lighting loads
- LED indicator
- IP44 for outdoor/indoor use

Specifications

Power requirement	220 ~ 240VAC / 50Hz
loading	1,000W for incandescent 300W for fluorescent
Detection angle	110° / 180°
Detection range	110° x 12m at 20° C 180° x 12m at 20° C Recommended mounting height : 1.8 ~ 2.0 m for wall mount 2.5 ~ 4.0 m for ceiling mount
Swiveling range	Vertical 35° Horizontal 70°
Run-on time setting	5 ± 3 sec. ~ 12 ± 3 min.
Ambient light setting	10 ~ 300 lux.
Operation mode	On/Off/Manual Override/Test
Warm-up time	Approximately 1 minute
Isolation Protection	Class II
Water proof	IP44
Working temp.	0°C ~ +40°C
Storage temp.	-20°C ~ +70°C
Power consumption	Less than 0.5 W
Regulation	EN60669-1, EN60669-2-1, EN61000-3-2, EN61000-3-3

Dimension : mm (inch)



Ordering information

- PAM41-1** 110° motion sensor without manual override
PAM41-2 110° motion sensor with manual override
PAM41-3 180° motion sensor without manual override
PAM41-4 180° motion sensor with manual override

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Motion Sensor

PAM41

110° / 180°

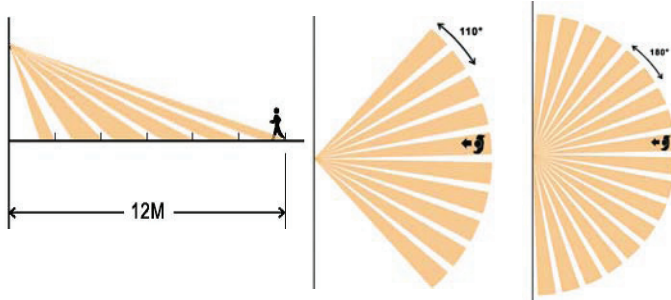
1000 W

wall/ceiling mount
motion sensor

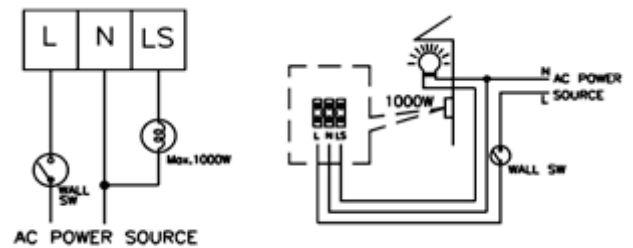


PIR Sensor

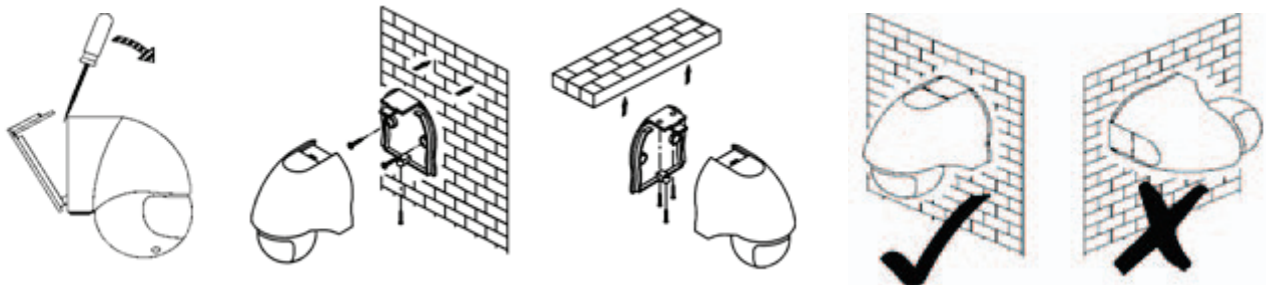
Detection Area - 110° / 180°



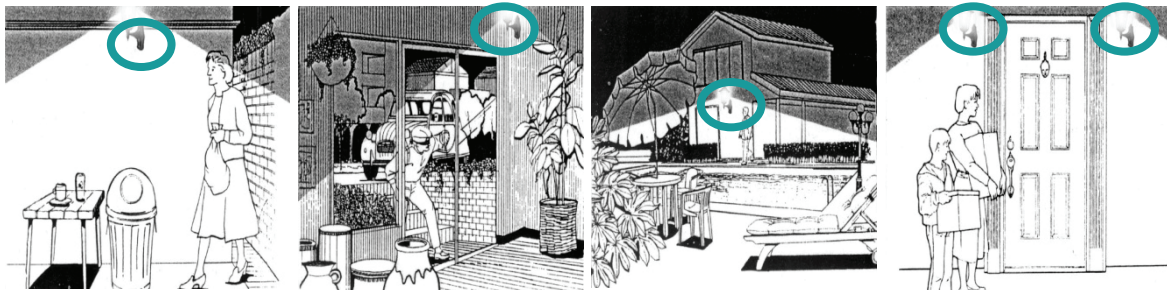
Connection Example



Installation



Application Example



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PAM21

240°

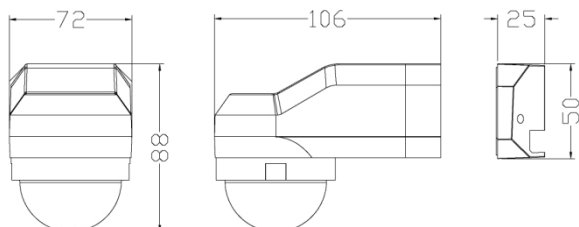
2000 W heavy duty
wall/ceiling/corner mount
motion sensor



Feature

- 240° wide detection angle
- 2000W resistive load capacity
- Time/Lux./Sensitivity adjustable
- LED Light Indication when PIR is triggered
- Lens shrouds to set detection coverage
- Left & Right 90° sensor swiveling angle
- Manual override facility to set fixtures continuously on
- Innovating AUTO RESET design of self-regulated adjustment to auto mode after 4 hours continuous activation
- Temperature compensation maintains constant detection range through all seasons
- Wall, ceiling, inside and outside corner installations available.

Dimension : mm (inch)



Specifications

Power requirement	220 ~ 240VAC / 50Hz
loading	2,000W for resistive load 1,000W for incandescent 500W for fluorescent
Detection angle	270°
Detection range	240° x 12m at 20° C Recommended mounting height : 1.8 ~ 2.5 m for wall mount 2.5 ~ 4.0 m for ceiling mount
Swiveling range	Horizontal 180° (left & right 90°)
Run-on time setting	5 ± 3 sec. ~ 12 ± 3 min.
Ambient light setting	30 ~ 200 lux.
Operation mode	On/Off/Manual Override/Test
Warm-up time	Approximately 1.5 minute
Isolation Protection	Class II
Water proof	IP55
Working temp.	0°C ~ +40°C
Storage temp.	-10°C ~ +70°C
Power consumption	Less than 0.5 W
Regulation	EN60669-1, EN60669-2-1, EN61000-3-2, EN61000-3-3

Ordering information

PAM21-5 240° motion sensor without manual override
PAM21-6 240° motion sensor with manual override

NEX Office

Singapore

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Motion Sensor

PIR Sensor

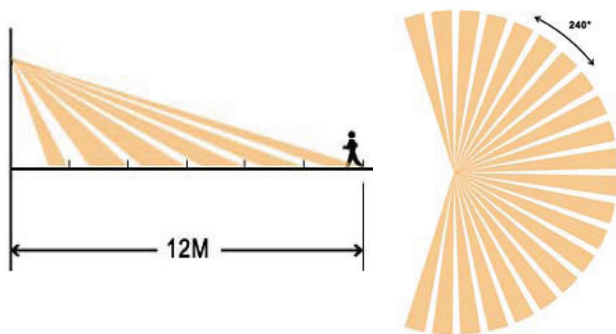
PAM21

240°

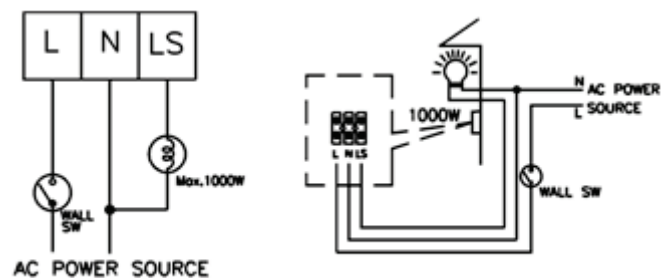
2000 W heavy duty
wall/ceiling/corner mount
motion sensor



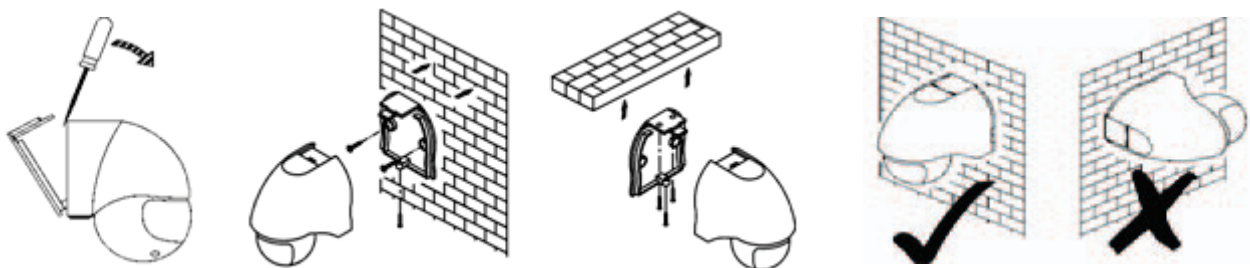
Detection Area - 240°



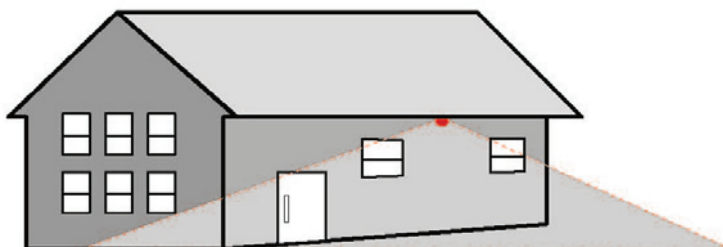
Connection Example



Installation



Application Example



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Loading Table

Loading conditions	ES204	ES256 / ES204 / ES206 / ES208 / ES209	PAS21 / PAS22 / ES203 / PAM22 / ES205	ES253 / ES254
Lighting Maximum Load For Fluorescent T8 (Cos Θ = 0.5)	600W/5A (@240VAC)	300W/2.50A (@240VAC)	1500W/12A (@240VAC)	750W/6.25A (@240VAC)
Lighting Load (number of fittings) for Fluorescent T5 (Setup Conditions)	Conditions : Loading : Ax(BxC) (Maximum=600W) A=Ballast Q'ty ; B=Watt ; C= Lamp Q'ty Ax(BxC)=10x(14Wx1) ; 10x(14Wx2) ; 10x(14Wx3) ; 10x(14Wx4) Ax(BxC)=8x(21Wx1) ; 8x(21Wx2) Ax(BxC)=8x(24Wx1) ; 8x(24Wx2) Ax(BxC)=8x(28Wx1)	Conditions : Loading : Ax(BxC) (Maximum=300W) A=Ballast Q'ty ; B=Watt ; C= Lamp Q'ty Ax(BxC)=3x(14Wx1) ; 3x(14Wx2) ; 3x(14Wx3) ; 3x(14Wx4) Ax(BxC)=3x(21Wx1) ; 3x(21Wx2) Ax(BxC)=3x(24Wx1) ; 3x(24Wx2) Ax(BxC)=3x(28Wx1)	Conditions : Loading : Ax(BxC) (Maximum=1500W) A=Ballast Q'ty ; B=Watt ; C= Lamp Q'ty Ax(BxC)=12x(14Wx1) ; 12x(14Wx2) ; 12x(14Wx3) ; 12x(14Wx4) Ax(BxC)=10x(21Wx1) ; 10x(21Wx2) Ax(BxC)=10x(24Wx1) ; 10x(24Wx2) Ax(BxC)=10x(28Wx1) ; 10x(28Wx 2)	Conditions : Loading : Ax(BxC) (Maximum=750W) A=Ballast Q'ty ; B=Watt ; C= Lamp Q'ty Ax(BxC)=6x(14Wx1) ; 6x(14Wx2) ; 6x(14Wx3) ; 6x(14Wx4) Ax(BxC)=5x(21Wx1) ; 5x(21Wx2) Ax(BxC)=5x(24Wx1) ; 5x(24Wx2) Ax(BxC)=5x(28Wx1) ; 5x(28Wx 2)
Lighting Load (Number of fittings) for CFL & PL (Setup Conditions)	Conditions : Loading=Ax B (Maximum=600W) A=Watt ; B=Lamp Q'ty (Maximum) Ex: 5Wx8 ; 9Wx8 ; 11Wx8 ; 13Wx8 ; 19Wx8 ; 20Wx8 ; 23Wx8 ; 24Wx8 ; 26Wx8 ; 27Wx8 ; 32Wx8 ; 36Wx8 ; 38Wx8 ; 42Wx8 ; 50Wx8 ; 55Wx8	Conditions : Loading=Ax B (Maximum=300W) A=Watt ; B=Lamp Q'ty (Maximum) Ex: 5Wx3 ; 9Wx3 ; 11Wx3 ; 13Wx3 ; 19Wx3 ; 20Wx3 ; 23Wx3 ; 24Wx3 ; 26Wx3 ; 27Wx3 ; 32Wx3 ; 36Wx3 ; 38Wx3 ; 42Wx3 ; 50Wx3 ; 55Wx3	Conditions : Loading=Ax B (Maximum=1500W) A=Watt ; B=Lamp Q'ty (Maximum) Ex: 5Wx12 ; 9Wx12 ; 11Wx12 ; 13Wx12 ; 19Wx12 ; 20Wx12 ; 23Wx12 ; 24Wx12 ; 26Wx12 ; 27Wx12 ; 32Wx12 ; 36Wx12 ; 38Wx12 ; 42Wx10 ; 50Wx10 ; 55Wx10 ; 80Wx10	Conditions : Loading=Ax B (Maximum=750W) A=Watt ; B=Lamp Q'ty (Maximum) Ex: 5Wx6 ; 9Wx6 ; 11Wx6 ; 13Wx6 ; 19Wx6 ; 20Wx6 ; 23Wx6 ; 24Wx6 ; 26Wx6 ; 27Wx6 ; 32Wx6 ; 36Wx6 ; 38Wx6 ; 42Wx5 ; 50Wx5 ; 55Wx5 ; 80Wx5
Lighting Load For LED	8 Qty parallel connection 200W total (Max.)	3 Qty parallel connection 200W total (Max.)	10 Qty parallel connection 200W total (Max.)	6 Qty parallel connection 200W total (Max.)
Lighting Load For Incandescent & Halogen (Cos Θ = 1)	5 Qty parallel connection 2000W total (Max.)	3 Qty parallel connection 1000W total (Max.)	8 Qty parallel connection 2000W total (Max.)	4 Qty parallel connection 2000W total (Max.)

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Loading Table

Loading conditions	PAM21	PES31 / PES41 / PES44	ES214
Lighting Maximum Load For Fluorescent T8 (Cos Θ = 0.5)	500W/4.1A (@240VAC)	1500W/12.5A (@240VAC)	600W/5A (@240VAC)
Lighting Load (number of fittings) for Fluorescent T5 (Setup Conditions)	Conditions : Loading : Ax(BxC) (Maximum=500W) A=Ballast Q'ty ; B=Watt ; C= Lamp Q'ty t Ax(BxC)=5x(14Wx1) ; 5x(14Wx2) ; 5x(14Wx3) ; 5x(14Wx4) Ax(BxC)=5x(21Wx1) ; 5x(21Wx2) Ax(BxC)= 4x(24Wx1) ; 4x(24Wx2) Ax(BxC)= 4x(28Wx1) ; 4x(28Wx 2)	Conditions : Loading : Ax(BxC) (Maximum=1500W) A=Ballast Q'ty ; B=Watt ; C= Lamp Q'ty Ax(BxC)=12x(14Wx1) ; 12x(14Wx2) ; 12x(14Wx3) ; 12x(14Wx4) Ax(BxC)=10x(21Wx1) ; 10x(21Wx2) Ax(BxC)=10x(24Wx1) ; 10x(24Wx2) Ax(BxC)=10x(28Wx1) ; 10x(28Wx 2)	Conditions : Loading : Ax(BxC) (Maximum=600W) A=Ballast Q'ty ; B=Watt ; C= Lamp Q'ty t Ax(BxC)=5x(14Wx1) ; 5x(14Wx2) ; 5x(14Wx3) ; 5x(14Wx4) Ax(BxC)=5x(21Wx1) ; 5x(21Wx2) Ax(BxC)= 4x(24Wx1) ; 4x(24Wx2) Ax(BxC)= 4x(28Wx1) ; 4x(28Wx 2)
Lighting Load (Number of fittings) for CFL & PL (Setup Conditions)	Conditions : A=Watt ; B=Lamp Q'ty (Maximum) Ex: 5Wx5 ; 9Wx5 ; 11Wx5 ; 13Wx5 ; 19Wx5 ; 20Wx5 ; 23Wx5 ; 24Wx4 ; 26Wx4 ; 27Wx4 ; 32Wx4 ; 36Wx4 ; 38Wx4 ; 42Wx3 ; 50Wx3 ; 55Wx3 ; 80Wx3	Conditions : Loading=Ax B (Maximum=1500W) A=Watt ; B=Lamp Q'ty (Maximum) Ex: 5Wx12 ; 9Wx12 ; 11Wx12 ; 13Wx12 ; 19Wx12 ; 20Wx10 ; 23Wx10 ; 24Wx10 ; 26Wx10 ; 27Wx10 ; 32Wx10 ; 36Wx10 ; 38Wx10 ; 42Wx8 ; 50Wx8 ; 55Wx8 ; 80Wx8	Conditions : A=Watt ; B=Lamp Q'ty (Maximum) Ex: 5Wx5 ; 9Wx5 ; 11Wx5 ; 13Wx5 ; 19Wx5 ; 20Wx5 ; 23Wx5 ; 24Wx4 ; 26Wx4 ; 27Wx4 ; 32Wx4 ; 36Wx4 ; 38Wx4 ; 42Wx3 ; 50Wx3 ; 55Wx3 ; 80Wx3
Lighting Load For LED	5 Qty parallel connection 200W total (Max.)	10 Qty parallel connection 400W total (Max.)	5 Qty parallel connection 200W total (Max.)
Lighting Load For Incandescent & Halogen (Cos Θ =1)	3 Qty parallel connection 2000W total (Max.)	9 Qty parallel connection 2000W total (Max.)	3 Qty parallel connection 2000W total (Max.)

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