

LIGHTING & ENERGY CONTROL

SECURITY



OCCUPANCY



PHOTOCELL



PART L



Phase Electronics (UK) Limited are a Midlands based supplier of professional and quality electronic and lighting products to the Electrical Wholesale market place.

Situated just off the motorway (M1 junction 27) on a modern industrial park in Nottinghamshire, our building boasts a spacious 12,000 square foot warehouse and offices dedicated to providing our customers with excellent sales and customer support.

We have an excellent and close working relationship with some of the largest manufacturers of electronics and lighting products worldwide.

We can offer:

- Next day nationwide distribution
- Access to an extensive range of high quality products
- Competitive prices
- Exceptional levels of product quality and service
- Access to leading edge product development
- Marketing and sales support
- Technical support helpline



Why Phase Electronics ?

The Ultimate Range of Security Lighting

The **TITAN** range of security lighting products represents the leading offer in the electrical wholesale market place.

Designed for the Professional installer with superior performance, build quality and installation features. Some key features include:-

Auto Thermal Accommodation (ATA)

Special feature that improves reliability and reduces false triggering.



Products with this symbol feature "AUTO THERMAL ACCOMMODATION" or ATA, a unique method of improving unit performance and reliability. The circuitry constantly determines the ambient background temperature and adjusts its sensitivity accordingly.

TRADITIONAL PIR SENSOR	UNIQUE INTELLIGENT PIR SENSOR
HIGH AMBIENT TEMPERATURE TEMPERATURE CHANGE MAY NOT ACTIVATE SENSOR POOR DETECTION	HIGH AMBIENT TEMPERATURE THERMAL ACCOMMODATION GIVES TRUE REFLECTION OF TEMPERATURE CHANGE NORMAL RELIABLE DETECTION
LOW AMBIENT TEMPERATURE SMALL TEMPERATURE CHANGES MAY ACTIVATE SENSOR FALSE TRIGGERING	LOW AMBIENT TEMPERATURE THERMAL ACCOMMODATION GIVES TRUE REFLECTION OF TEMPERATURE CHANGE NORMAL RELIABLE DETECTION

Dual Cable Entry

To allow easier installation and slave light load connection.



Clip Fastening Front Cover

Overcomes lamp replacement difficulties due to corrosion and speeds original installation.



Anti Light Pollution

Reduces nuisance lighting and supports campaign for dark skies.



Adding Value.....

PROFESSIONAL SECURITY FLOODLIGHTS



- Anti light pollution floodlight to reduce energy wastage and nuisance
- Choice of 140° or 200° detection
- Additional switching capacity 1000 watts incandescent
- Range up to 15 metres
- Quick release clip fastening
- Adjustable time on and sensitivity
- Manual override facility
- Dual side cable entry
- IP44 rated

Product order code: **TF140B** 500W FLOOD WITH 140° PIR - BLACK

Product order code: **TF200B** 500W FLOOD WITH 200° PIR - BLACK

Product order code: **TF140W** 500W FLOOD WITH 140° PIR - WHITE

Product order code: **TF200W** 500W FLOOD WITH 200° PIR - WHITE

PROFESSIONAL 140° & 200° PIR DETECTORS



- Switching capacity 1000 watts incandescent, 400w fluorescent
- Adjustable time on and lux level controls
- Provision for vertical or horizontal mounting surfaces
- Range up to 15 metres
- Manual override facility
- Adjustable PIR head 70° horizontal and 35° vertical
- IP44 rated

Product order code: **TP140B** 140° PIR DETECTOR - BLACK

Product order code: **TP200B** 200° PIR DETECTOR - BLACK

Product order code: **TP140W** 140° PIR DETECTOR - WHITE

Product order code: **TP200W** 200° PIR DETECTOR - WHITE

PROFESSIONAL 270° PIR DETECTORS



- 270° Wide angle PIR detection
- Switching capacity 2000 watts incandescent, 480w fluorescent
- Adjustable time on, sensitivity and lux level controls
- Range up to 15 metres
- Corner wall mounting bracket supplied
- Manual override facility
- Adjustable PIR head 180° horizontal
- Dual rear cable entry
- IP55 rated

Product order code: **TP270B** 270° PIR DETECTOR - BLACK

Product order code: **TP270W** 270° PIR DETECTOR - WHITE

SECURITY FLOODLIGHTS

- 150w or 500w versions
- Manual override facility
- 200° detection angle
- Adjustable time on and lux level controls
- 12 - 15 metres detection range
- IP44 rated

Product order code: **SEC500** 500W FLOOD WITH 200° PIR - BLACK

Product order code: **SEC500W** 500W FLOOD WITH 200° PIR - WHITE

Product order code: **SEC150** 150W FLOOD WITH 200° PIR - BLACK

Product order code: **SEC150W** 150W FLOOD WITH 200° PIR - WHITE



SECURITY BULKHEADS

- Vandal resistant polycarbonate construction (Professional)
- Metal Base on Heavy Duty (Local Authority preference)
- 110° detection adjustable through 60°
- Adjustable time on and lux level controls
- Switches energy saving lamps
- Detection range up to 8 metres
- Manual override facility
- Additional switching capacity 500w incandescent
- IP44 rated

Product order code: **TB110B** 110° PIR BULKHEAD

Product order code: **TBHD110** 110° HEAVY DUTY BULKHEAD

Product order code: **TBPCBB** PHOTOCELL BULKHEAD

Professional

Heavy Duty



PIR LANTERNS

- High quality die cast construction
- Integrally designed PIR sensor
- 180° PIR detection
- Maximum 60w ES GLS
- Adjustable time on (5 secs - 9 mins approx)
- Additional switching capacity 500w incandescent
- Detection range up to 12 metres
- IP44 rated

Product order code: **TLPIRB** 6 SIDED ALUMINIUM PIR LANTERN - BLACK

Product order code: **TLPIRW** 6 SIDED ALUMINIUM PIR LANTERN - WHITE



OCCUPANCY DETECTORS

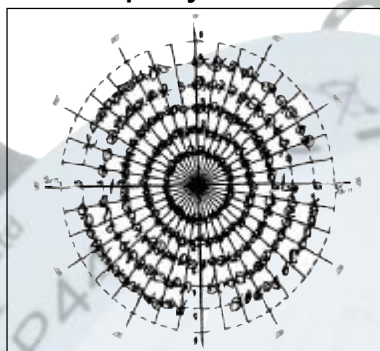
Why Phase Electronics ?

TITAN Microsensitive Occupancy Detectors offer the highest level of detection and performance in the industry with 24 detection points per 15° (576 points in total). This prevents instances of lighting and other loads switching off in office or commercial environments when people are still present but not mobile (sitting zone).

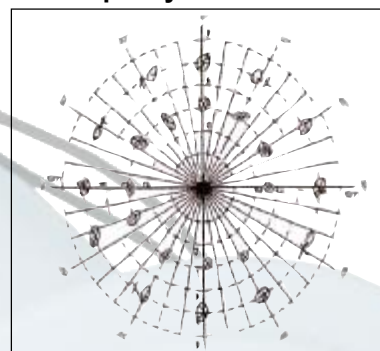
Standard motion detectors have 144 detection points (or less). The charts below illustrate the differences in performance between the two alternatives.

Micro Sensitivity

576 Detection points in Titan Occupancy Detectors

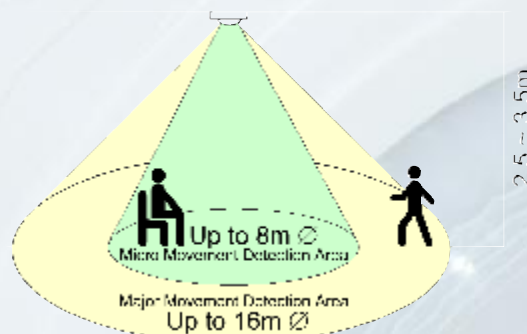


144 Detection points in other Occupancy PIR Detectors



TITAN Microsensitive Occupancy Detectors have a standard micro movement detection range of up to 8m diameter (sitting zone) and major movement detection of up to 16m diameter (walking zone).

Detection Area



Energy Saving

TITAN Occupancy Detectors can save up to 70% on energy consumption when daylight regulated and used in conjunction with light sources with high efficacy ratings.

Product Development

Development Stage	Switching Capacity 6 Amp (Any Load)	Microsensitivity 24 Zones/15°	Detection Area ≈8m ≈16m	EVSP Reliability
1st Generation PIR Rated Macro Movement	✗	✗	✗	✓
2nd Generation Limited Switching Capacity	✗	✓	✗	✓
3rd Generation Phase Specification	✓	✓	✓	✓

Adding Value.....

OCCUPANCY DETECTORS

MICROSENSITIVE RECESSED 360° OCCUPANCY DETECTOR

- Detection range 5m radius major movement 3m radius micro movement
- Lux level adjustment 30 - 200 Lux
- Time delay adjustment 5 Secs to 40 Mins (10 Steps)
- 8 amp incandescent / 6 amp fluorescent switching load
- 3 wire connection live / neutral / load
- Linkable for common load switching
- IP44 rated when installed

Product order code: **TOCR01**



MICROSENSITIVE SURFACE MOUNT 360° OCCUPANCY DETECTOR

- Detection range 5m radius major movement 3.5m radius micro movement
- Lux level adjustment 30 - 200 Lux
- Time delay adjustment 5 Secs to 40 Mins (10 Steps)
- 8 amp incandescent / 6 amp fluorescent switching load
- 3 wire connection live / neutral / load
- Linkable for common load switching
- IP44 rated when installed

Product order code: **TOCS01**



MICROSENSITIVE 360° 2 PART OCCUPANCY WITH IR REMOTE

- Detection range 8m radius major movement 4m radius micro movement
- First fit (two part) with removable PIR body
- Twin channel infra red remote control
- Lux level adjustment 30 - 200 Lux
- Time delay adjustment 5 Secs to 40 Mins
- 8 amp incandescent / 6 amp fluorescent switching load
- 3 wire connection live / neutral / load
- Linkable for common load switching
- IP20 rated when installed

Product order code: **TOCR02**



PIR 110° WALL SWITCHES

- PIR detection range 10m
- Lux level adjustment 10 - 200 Lux (2 wire) 5 - 1000 Lux (3 wire)
- Time delay adjustment 5 Secs to 40 Mins (10 Steps)
- 6 amp incandescent / 4 amp fluorescent switching load
- 2 wire version (no neutral) live / load, 3 wire version live / neutral / load
- 3 wire version linkable for common load switching
- Manual off / auto slider switch
- IP21 rated when installed

Product order code: **TOWS02**

2 WIRE VERSION

Product order code: **TOWS03**

3 WIRE VERSION



Why Phase Electronics ?

TITAN Offer a comprehensive range of industrial grade NEMA socket photocell units suitable for a wide range of commercial and industrial installations.

Extremely energy efficient, power consumption is less than 0.5w.
All units are manufactured from vandal resistant UV stabilised polycarbonate with a wide operating voltage (198v to 264v).

Each product is ASIC controlled (Application Specific Integrated Circuits).

PHOTOCELLS

Product order code: TPCELL01	5 AMP STANDARD
Product order code: TPCELL02	5 AMP SURGE SUPPRESSION
Product order code: TPCELL03	8 AMP FILTERED PHOTODIODE
Product order code: TPCELL04	5 AMP PART NIGHT*

PHOTOCELL KITS - COMPLETE WITH BRACKET

Product order code: TPCKIT01	5 AMP STANDARD
Product order code: TPCKIT02	5 AMP SURGE SUPPRESSION
Product order code: TPCKIT03	8 AMP FILTERED PHOTODIODE
Product order code: TPCKIT04	5 AMP PART NIGHT*
Product order code: TPCBKT	SPARE BRACKET

* Part Night photocells have a special microprocessor control that switches the load on at 70 Lux, switches off middle of the night then back on approximately 5 hours later depending on light levels. The microprocessor calibrates in approximately 5 days.

MINIATURE & REMOTE PHOTOCELLS

Product order code: TPCREM01	REMOTE MINIATURE PHOTOCELL
Product order code: TPCMINI01	MINIATURE PHOTOCELL

TECHNICAL SPECIFICATION

Code	Description	Switch Capacity Resistive (Max)	Switch Capacity Inductive (Max)	Surge Suppression	Switch on/off level
TPCELL01/KIT01	5a Photocell	1000w	500w	N	70 / 105
TPCELL02/KIT02	5a Photocell with Surge Suppression	1000w	500w	Y	70 / 105
TPCELL03/KIT03	8a Filtered Photodiode Photocell	1500w	1000w	Y	70 / 35
TPCELL04/KIT04	5a Part Night Photocell*	1000w	500w	Y	70 / 35
TPCREM01	Remote Miniature Photocell	1000w	500w	Y	70 / 105
TPCMINI01	Miniature Photocell	1000w	500w	Y	70 / 105

Adding Value.....

Why Phase Electronics ?

Part L - Conservation of Fuel and Power stipulates that fixed external lighting complies with either:

A Lamp capacity does not exceed 150 watts per light fitting and the light fitting automatically switches off:

- i. When there is enough daylight; and
- ii. When it is not required at night (PIR);

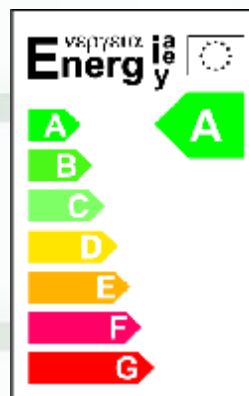
or

B The light fittings have sockets that can only be used with lamps having an efficacy greater than 45 lumens per circuit watt.

Phase Part L fittings comply with section B ensuring that Part L of the regulations are completely complied with.

Compliance by design from Phase Electronics (UK) Limited.

PART L COMPLIANT
L1 L2



PART L BULKHEADS

- Part L Compliant
- Utilises 13w PL TC-D lamp (not supplied)
- 110° detection with horizontal swivel head (PIR Version)
- Range up to 8 metres (PIR Version)
- Adjustable time on and lux level controls (PIR Version)
- Additional switching capacity 500w (PIR Version)
- Vandal resistant polycarbonate construction
- Automatic dusk to dawn operation 50 Lux on/off (PC Version)
- IP44 rated

Product order code: **ED880** 110° LOW ENERGY PIR BULKHEAD

Product order code: **ED881** LOW ENERGY PHOTOCCELL BULKHEAD



Adding Value.....

PART L FITTINGS

STAINLESS STEEL WALL LIGHTS

- Part L Compliant
- Utilises 13w PL TC-D lamp (not supplied)
- 140° detection angle (PIR version)
- Range up to 8 metres (PIR version)
- Adjustable time on and lux level controls (PIR version)
- Durable and decorative
- IP44 rated

Product order code: **TESW13PIRSS** PIR VERSION

Product order code: **TESW13SS** NON PIR VERSION

13W BULKHEADS

- Vandal resistant polycarbonate diffuser
- Utilises 13w PL TC-D lamp (not supplied)
- Part L compliant
- Suitable for indoor/outdoor use
- Photocell version available
- IP55 Rated

Product order code: **BB13W** METAL BASE

Product order code: **BBP13W** POLYCARBONATE

Product order code: **BB13WPC** METAL BASE C/W PHOTOCELL

Product order code: **BBP13WPC** POLYCARBONATE C/W PHOTOCELL

UNIVERSAL FLAT/CORNER MOUNT WELL GLASS

- Part L Compliant
- Utilises 13w PL TC-D lamp (not supplied)
- Universal fitting flat and corner mount wall brackets supplied
- Polycarbonate fitting with opal screw neck glass cup
- IP44 rated

Product order code: **WELLPL13**

PART L FLOODLIGHTS

- Part L Compliant
- Dual purpose fitting - flood and sign lighting
- Complete with PL lamps 52 Lumens/watt
- Energy saving
- Flood, PIR and Photocell versions available
- Tough durable construction
- Integrated high frequency gear
- IP55 Rated

Product order code: **PL1X26FLD** 1 x 26W

Product order code: **PL2X26FLD** 2 x 26W

Product order code: **PL2X26PC** 2 x 26W C/W PHOTOCELL

Product order code: **PL2X26PIR** 2 x 26W C/W PIR

Product order code: **PL1X42FLD** 1 x 42W

Product order code: **PL1X42PC** 1 x 42W C/W PHOTOCELL



Flat Mount Bracket



Corner Mount Bracket



Why choose as a supplier ?

- Phase personnel have been supplying security lighting to the professional market for over 25 years.
- In association with Everspring we have upgraded component technology to be compatible with the latest energy saving light sources.
- Being part of the Everspring Group allows Phase the QA and production benefits of a leading global manufacturer having the experience to deliver leading edge product on a national scale.
- We can offer a unique 'One Stop Shop' offer for Lighting and HVAC control systems from domestic to industrial requirements.
- Phase Electronics enjoy a preferred supplier status to most major wholesaler groups and our product range is listed in Luckins for ease of reference.
- Dedicated Area Sales Managers are available to secure business in association with wholesaler internal and field based sales staff.
- Bespoke point of sale working displays and informative literature is available to assist product sell through.
- Phase offer extra 'stockist discount' to benefit preferred wholesalers who keep our inventory on the shelf.
- Our stock cleanse policy offers a 'no risk' insurance policy when taking on our product range.
- Technical support helpline

Phase Electronics the total solution for Lighting Control Systems !

Adding Value.....



Phase Electronics (UK) Limited Willow Drive Sherwood Park NOTTINGHAM NG15 0DP

☎: 01623 758333

Fax: 01623 756600

E-mail: sales@phaseelectronics.co.uk

www.phaseelectronics.co.uk