The first online technical portal for design engineers
Log on, research, refine and design
**Lighting Transformers**

A range of lightweight, compact lighting transformers for low voltage applications.

- **Sturdy, resilient, fully enclosed fittings for commercial and industrial applications**
- **Precision injection mouldings**
- **Vandal and heat resistant polycarbonate body, diffuser and clips**
- **Deep poured gasket seal for consistent and reliable sealing**
- **Prismatic diffuser for optimum light distribution and glare reduction**
- **Thermal cut-off**
- **Quick fix ceiling brackets remove the need to seal fixing holes**
- **20mm cable entry holes at each end, complete with sealing plugs**
- **Integral emergency version available**
- **Switchstart control gear**
- **Deep poured gasket seal for consistent and reliable sealing**
- **Precision injection mouldings**
- **Sturdy, resilient, fully enclosed fittings for commercial and industrial applications**

### 12V Dimmable Lighting Transformers

#### Standard Fittings

<table>
<thead>
<tr>
<th>Description</th>
<th>Length (mm)</th>
<th>Mfrs.</th>
<th>Order Code</th>
<th>Price Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 x 58W</td>
<td>1570</td>
<td>TFW158S</td>
<td>150-0237</td>
<td></td>
</tr>
<tr>
<td>2 x 58W</td>
<td>1570</td>
<td>TFW258S</td>
<td>150-0240</td>
<td></td>
</tr>
</tbody>
</table>

#### Emergency Fittings

<table>
<thead>
<tr>
<th>Description</th>
<th>Length (mm)</th>
<th>Mfrs.</th>
<th>Order Code</th>
<th>Price Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 x 58W</td>
<td>1570</td>
<td>EBTW258S</td>
<td>150-0246</td>
<td></td>
</tr>
</tbody>
</table>

### IP65 Weatherproof Fluorescent Fittings

Tufflite TFW

- **12V LED Transformer**
  - **Specifically designed for use with LED lamps**
  - **Electronic protection against short circuit and overload**
  - **Direct current power supply**
  - **High efficiency and reduced weight and size**
  - **Steady output voltage**
  - **12V DC current**
  - **Power: 0.5 - 15W**
  - **Dimensions (LxWxD): 112 x 38 x 28mm**

- **Low Voltage Transformer**
  - **Haltronic 70w, 105w x 150w Mouse**
  - **The Mouse transformer is a compact, lightweight electronic transformer that can be used with dimmers**
  - **Ideal for recessed and surface mounted luminaries using low voltage tungsten halogen lamps**
  - **Low power dissipation produces less heat than standard transformers making it suitable for wooden surfaces**
  - **Units are VDE tested and comply with European standards for safety, operation and EMC**
  - **Short circuit, overload and over temperature protection**

<table>
<thead>
<tr>
<th>Mfrs.</th>
<th>Max Lamp Wattage</th>
<th>Order Code</th>
<th>Price Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>HTM70</td>
<td>70W</td>
<td>152-8732</td>
<td></td>
</tr>
<tr>
<td>HTM105</td>
<td>105W</td>
<td>152-8734</td>
<td></td>
</tr>
<tr>
<td>HTM150</td>
<td>150W</td>
<td>152-8734</td>
<td></td>
</tr>
</tbody>
</table>

### Down Lighters - Low Voltage

#### Showerlights - Low Voltage

- **Can be used in bathroom zone 1 and 2**
- **Pre-wired LV lamp holder**
- **Sprung bezel pulls off to facilitate easy lamp change**
- **Requires 1 x 50W 12V G5.3 MR16 50mm halogen reflector (not included)**

<table>
<thead>
<tr>
<th>Description</th>
<th>List No.</th>
<th>Mfrs.</th>
<th>Length</th>
<th>Price Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polished Chrome</td>
<td>179-9136</td>
<td>SLLVCR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Brushed Nickel</td>
<td>179-9138</td>
<td>SLLVSN</td>
<td></td>
<td></td>
</tr>
<tr>
<td>White</td>
<td>179-9139</td>
<td>SLLVWH</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Interior Lighting

#### T5 Linkable Fluorescent Fittings

- **Low Energy Fitting**
  - **Polycarbonate**
  - **High frequency electronic ballast, instant start, flicker free operation, and prolonged lamp life**
  - **Rocker switch**
  - **Incorporates plug and socket with through wiring, can be linked with up to 5 other fittings**
  - **Reeded diffuser**

<table>
<thead>
<tr>
<th>Mfrs.</th>
<th>Watts</th>
<th>Length</th>
<th>Order Code</th>
<th>Price Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>HTM70</td>
<td>7W</td>
<td>345mm</td>
<td>206-5820</td>
<td></td>
</tr>
<tr>
<td>HTM105</td>
<td>15W</td>
<td>570mm</td>
<td>206-5822</td>
<td></td>
</tr>
<tr>
<td>HTM150</td>
<td>15W</td>
<td>900mm</td>
<td>206-5823</td>
<td></td>
</tr>
<tr>
<td>HTM200</td>
<td>15W</td>
<td>1.2m</td>
<td>206-5825</td>
<td></td>
</tr>
</tbody>
</table>

### Super Slim Ceiling Fitting

- **Steel and acrylic construction with a white finish**
- **IP20 rated**
- **Supplied with 1 x 4-pin Double-D lamp 16W**
- **Dimensions (HxD): 45 x 295mm**
Lighting Autoswitch
- A handy ‘push to break’ autoswitch for cupboard and cabinet lights
- Normally on, push for off (i.e. turns off when cupboard door closes)
- 2mm depression required for operation - 5.5mm total travel
- Switching 1A max. (250V)
- Thermoplastic moulding
- IP20 rated
- Dimensions (WxHxD): 35 x 45 x 20mm

LED Strip Lighting
- Ultra-bright LED’s: Low power consumption with enhanced life expectancy
- 2 metres link mains lead: Linkable with up to 5 other fittings
- Reeded diffuser: Soft diffused light

Ultra-Low Profile LED Strip Light
PLANETSAVER® LED Strip Lighting is a range of ultra-slim, low profile light, low power LED Strip Lighting available as a direct replacement for existing fluorescent lighting designs. Typical applications include ‘under shelf’ retail lighting, refrigeration illumination, ‘back bar’ chiller cabinets, cars, trailers, caravans boats and other vehicles.
- 12V DC Ultra-Low Profile Strip Lights
- Longer life than low energy lamps
- Up to 10 years continuous operation
- Connection via 1.3mm socket
- Low power consumption
- Low operating temperature
- Lights up instantly at full brightness
- Does not produce UV

IP65 Bulbs
- Black Bulb
  - Polycarbonate body and lens
  - Vandal-resistant diffuser
  - Brass lampholder pre-wired to terminal block for fast connection
  - IP65 rated
  - Requires 1 x BC GLS lamp, 100W max. (not supplied)
  - Dimensions (WxHxD): 133 x 240 x 102mm
- Grey Bulb
  - Cast aluminium base
  - Vandal-resistant diffuser
  - Ceramic lampholder
  - IP65 rated
  - Requires 1 x BC GLS lamp, 100W max. (not supplied)
  - Dimensions (WxHxD): 117 x 235 x 102mm
**Exterior Lighting - continued**

**IP65 Bulkheads - continued**

<table>
<thead>
<tr>
<th>Description</th>
<th>Order Code</th>
<th>Price Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>Black Bulkhead</td>
<td>108-6692</td>
<td>1+ 5+</td>
</tr>
<tr>
<td>Grey Bulkhead</td>
<td>108-6693</td>
<td>1+ 5+</td>
</tr>
</tbody>
</table>

**Vandal Resistant - IP65 BulkHead**

- Incandescent or Compact Fluorescent
  - Shatterproof polycarbonate casing and diffuser
  - Rustproof
  - Vandal resistant
  - Cable entry knockouts on all sides
  - Weatherproof seal to IP65
  - Designed in compliance with BS 4533 Pt 102.1
  - Compact fluorescent lamps supplied, incandescent lamps (BC) not supplied
  - H=245, W=130, D=110
  - Colour: base, clear diffuser
  - Power requirements: 240V ac 28W
  - Max. GLS wattage: 100W BC
  - compact fluorescent fittings include 2 x 9W lamps

<table>
<thead>
<tr>
<th>Lamp Type</th>
<th>Order Code</th>
<th>Price Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>Incandescent</td>
<td>474-162</td>
<td>1+ 5+</td>
</tr>
<tr>
<td>Compact Fluorescent</td>
<td>474-174</td>
<td>1+ 5+</td>
</tr>
</tbody>
</table>

**Low Energy Floodlights**

An excellent low energy fitting, ideal for sign lighting and a host of commercial and domestic flood, courtesy and security lighting uses. The low energy compact fluorescent lamps allow for compliance with L1 building requirements for the provision of energy saving lighting. The compact and robust, impact-resistant, UV stabilised polycarbonate casing offers a lightweight, shatterproof unit with a host of features to help speed up installation time.

- **IP65**
- **Integral photocell option**
- **Asymmetric reflector**
- **Quick release handles**
- **Hinged front fascia**
- **20mm entry**
- **Brass inserts**
- **Mounting angle referencing**
- **Ratchet system on bracket**
- **26W = 1800 lumens, 2-pin single turn**
- **42W = 3200 lumens, 4 pin double turn**
- **Lamp supplied**
- **Available in black or white**

<table>
<thead>
<tr>
<th>Description</th>
<th>Order Code</th>
<th>Price Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>26W Black</td>
<td>866-8051</td>
<td>1+ 4+</td>
</tr>
<tr>
<td>26W Black + photocell</td>
<td>866-8060</td>
<td>1+ 4+</td>
</tr>
<tr>
<td>42W Black</td>
<td>866-8094</td>
<td>1+ 4+</td>
</tr>
<tr>
<td>42W Black + photocell</td>
<td>866-8108</td>
<td>1+ 4+</td>
</tr>
</tbody>
</table>

**Security Lighting - Outdoor**

**Low Energy Polycarbonate Floodlights**

- **BS EN 60598**
- **IP44**
- **PIR Controlled**
- **8000 average life time hours**
- **Non dimming**

<table>
<thead>
<tr>
<th>Description</th>
<th>Order Code</th>
<th>Price Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>Floodlight</td>
<td>178-41556</td>
<td>1+ 5+</td>
</tr>
<tr>
<td>PIR controlled floodlight</td>
<td>178-41616</td>
<td>1+ 5+</td>
</tr>
</tbody>
</table>

**External Floodlighting**

**Low Energy Polycarbonate Floodlights**

- **GX24q-5**
  - Colour temperature 6400K
  - 8000 average life time hours
  - Low energy consumption: Offers economic running costs compared with traditional lamps
  - Non dimming
  - Dedicated low energy light source: Ideal where higher output and energy saving are required
  - Polycarbonate
  - Requires 1 x 57W GX24q-5 triple turn T4 pin CFL 6400K (included)
  - IP65: BS EN 60598

<table>
<thead>
<tr>
<th>Description</th>
<th>Order Code</th>
<th>Price Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>Floodlight</td>
<td>178-41556</td>
<td>1+ 5+</td>
</tr>
<tr>
<td>Floodlight with photocell</td>
<td>178-41576</td>
<td>1+ 5+</td>
</tr>
</tbody>
</table>

**Low Energy Floodlight**

- **Floodlight**
  - **Floodlight with photocell**
  - **GX24q-5**
  - **188 x 44mm**
  - **High frequency electronic ballast: Instant start, flicker free operation and prolonged lamp life**
  - **Adjustable mounting bracket**
  - **Pre-wired with 900mm mains cable**: Easy installation
  - **Contemporary design with modern low energy light source**
  - **Price Each**
  - **Order Code**
  - **1+ 5+ 10+**

<table>
<thead>
<tr>
<th>Description</th>
<th>Order Code</th>
<th>Price Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>Floodlight</td>
<td>177-4188</td>
<td>1+ 5+</td>
</tr>
<tr>
<td>Floodlight with photocell</td>
<td>177-4191</td>
<td>1+ 5+</td>
</tr>
</tbody>
</table>

**Passive Infra-Red Controlled Bulkheads**

- **High quality bulkhead fitting with adjustable PIR sensor**
- **Automatically turns on light to welcome visitors and deter intruders**
- **Available in black or white**
- **Uses a standard GLS ES bulb up to 60W (not included)**
- **Can drive additional Tungsten/Halogen lighting up to 440W**
- **Built in sensor prevents daytime operation**
- **Override facility for permanent ON or OFF**
- **Full instructions include Customer Helpline Number**

<table>
<thead>
<tr>
<th>Description</th>
<th>Order Code</th>
<th>Price Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>Black Bulkhead</td>
<td>388-099</td>
<td>1+ 5+</td>
</tr>
<tr>
<td>White Bulkhead</td>
<td>388-105</td>
<td>1+ 5+</td>
</tr>
</tbody>
</table>

---

*Farnell* 2009/10 Date: 07-09-12 time: 08:12

---

**Audio, Office and Electrical**

**External Floodlighting - Audio, Office and Electrical**

- **External Floodlighting**
  - **Design in compliance with Weatherproof seal to IP65**
  - **Cable entry knockouts on all sides**
  - **Vandal resistant**
  - **Rustproof**
  - **Shatterproof polycarbonate casing and diffuser**
  - **Colour base, clear diffuser**
  - **Body Material**
  - **ABS**
  - **Dimensions (L x W x D)**
    - 135 x 210 x 100mm
  - **Operating Voltage**
    - 220-240 ac 50Hz
  - **Weatherproof Rating**
    - IP44
  - **PIR Detection Range**
    - 8m
  - **Angle of Detection**
    - 110° (adjustable 45° in either direction to alter coverage)
  - **Light On Time**
    - 5 seconds to 5 minutes (adjustable)
  - **Conforms to Directives**
  - **Mfrs. List No.**
    - SL888-388-099
    - SL889-388-105

<table>
<thead>
<tr>
<th>Description</th>
<th>Order Code</th>
<th>Price Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>Floodlight</td>
<td>177-4188</td>
<td>1+ 5+</td>
</tr>
<tr>
<td>Floodlight with photocell</td>
<td>177-4191</td>
<td>1+ 5+</td>
</tr>
</tbody>
</table>

---

**Audio, Office and Electrical**

**Low Energy Polycarbonate Floodlights**

- **SL226W**
  - **BS EN 60598-1:2000**
  - **IP44**
  - **Automatic Sensor**
  - **Body Material**
  - **ABS**
  - **Dimensions (L x W x D)**
    - 275 x 215 x 112mm

<table>
<thead>
<tr>
<th>Description</th>
<th>Order Code</th>
<th>Price Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>Floodlight</td>
<td>177-4188</td>
<td>1+ 5+</td>
</tr>
<tr>
<td>Floodlight with photocell</td>
<td>177-4191</td>
<td>1+ 5+</td>
</tr>
</tbody>
</table>
Electronic Anti-Corrosive Fluorescent Fittings
- High frequency electronic ballast
- Instant start
- Flicker free operation
- Prolonged lamp life
- Multiple fixing / suspension options
- Knockouts and IP glands supplied for connections and through wiring
- Easy installation and maintenance
- Polycarbonate diffuser, impact resistant
- Requires 1500mm 58W fluorescent tubes (not supplied)
- IP65 rating

Hazardous Area Light Fittings
- Hazardous Area
- Lamps not supplied
- Glass fibre reinforced enclosure
- Bowl made of transparent, impact-resistant polycarbonate, easily cleaned
- Protective bowl is hingeable on both sides
- Double-sided safety lock
- Dimensions (WxLxD) 188 x 760 x 130
- Cable Entries 4 x M20 x 1.5
- Lamps 2 x 18W T8 Bi-Pin
- IP Rating IP65
- Rated Current 0.16A
- Rated Voltage (DC) 196-230V ±10%
- Rated Voltage (AC) 220-230V ±10%
- Certificate PTB 98 ATEX 2208 / DMT 02 ATEX E 116
- Group/Category II 3 G EEx nA II T4 to EN 50021
- II 2 D T80

Weatherproof Luminaire
- Maintained and non-maintained emergency bulkheads
- 3 hours continuous illumination
- Polycarbonate construction with a white finish
- Hinged gear tray and captive screws for easy installation
- Conforms to BS EN 60598-2-22
- Supplied with lamp, battery and universal self adhesive legend pack
- Additional legend packs containing 1 x sheet of 4 legends available

ATEX Fluorescent Fittings - Zone 2
- Modern economical ballasts
- Suitable for use in chemical and off-shore installations
- Certified for use in Zones 2, 21 and 22
- Explosion-protected light fittings for bi-pin fluorescent lamps
- Suitable for use in chemical and off-shore installations
- Modern economical ballasts
- Double-sided safety lock
- Protective bowl is hingeable on both sides
- Bowl made of transparent, impact-resistant polycarbonate, easily cleaned
- Glass fibre reinforced enclosure
- Lamps not supplied

Emergency Exit Signs
- Double-sided LED emergency edge lit exit sign light
- Compact modern design, less obstructive alternative to traditional edge lit fittings
- Remote connection box complete with 2 x 250mm chain suspension
- Supplied with down arrow exit legend with engraved outline pictogram - left / right arrow legends available
- Fully tested to relevant standards
- Economic running costs and long life
- Test button, status indicator LEDs
- Housing: steel / aluminium
- Legend panel: polycarbonate
- Requires 14 x 4W LED light strip (included)

Weatherproof Bulkhead Luminaires
- Zeta II
- Weatherproof bulkheads with a shallow, unobtrusive profile
- Flame retardant ABS base and a clear polycarbonate diffuser
- Removable steel gear tray with powder coated 'Permawhite' finish
- IP65 Rating
- Maintained and Non-Maintained versions available
- Suitable for ceiling and wall mounting
- BSI Kitemarked and ICSEL registered

Emergency Lighting
- Non-maintained emergency light with twin halogen spots
- 3 hours continuous illumination
- Steel box construction
- Individual LED health lamp indicators
- Conforms to BS EN 60598-2-22
- Supplied with 2 x 20W lamps and battery

Halogen Spot Emergency Light
- Emergency Duration 3 Hours
- Supply Voltage 230V
- Lamp type 2 x 12V 18W Halogen lamps
- IP Rating IP20
- Battery 1 x 2.4V NiCd 4.5Ah
- Dimensions (LxWxH) 345 x 120 x 75mm
- Weight 7.0kg

Emergency Twin Spotlight
- Gemini Junior
- Non-Maintained twin spotlight with top or side mountable lamp heads
- Sheet steel body with powder coated 'Permawhite' finish
- Emergency Duration 3 Hours
- Supply Voltage 230V
- Lamp type 2 x 12V 18W Halogen lamps
- IP Rating IP20
- Battery 1 x 12V 7Ah
- Dimensions (LxWxH) 310 x 310 x 70mm
- Weight 6.0kg

Legends
- LED Signs
  - Silver LEDESL 179-9116
  - White LEDESLWH 179-9117

Legend
- White on Green LEDLD 179-9110
Emergency Twin Spotlight - continued

Gemini Junior - continued

- Polycarbonate lamp heads with multi-directional tilt and swivel facility
- Twin LEDs indicate lamp failure, mains and charging status
- IP20 rating
- Hinged front cover, permitting easy installation and maintenance
- Keyhole slots for direct fix, with cable entries at rear, side and top (depending on location of lamp heads)

<table>
<thead>
<tr>
<th>Mfrs. List No.</th>
<th>Description</th>
<th>Order Code</th>
<th>Price Each</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Twin Spotlight</td>
<td>GBRL218320240</td>
<td>150-02250</td>
</tr>
</tbody>
</table>

Lighting Controllers / PIRs

Miniature Photocell

- Ideal for use inside fittings
- 1500va or 5A inductive load at 60MFD, switching at 70 lux
- Thermoplastic moulding
- IP20 rated

<table>
<thead>
<tr>
<th>Order Code</th>
<th>Price Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>108-6771</td>
<td></td>
</tr>
</tbody>
</table>

Remote Fixing Miniature Photocell

- Ideal for use inside fittings where space is limited
- 1500va or 5A inductive load at 60MFD, switching at 70 lux
- Thermoplastic moulding
- IP20 rated

<table>
<thead>
<tr>
<th>Order Code</th>
<th>Price Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>108-6772</td>
<td></td>
</tr>
</tbody>
</table>

Nema Socket Electronic Photocell Kit

- Nema socket photocell, available on its own or as a kit (with wall bracket)
- Accurate electronic operation
- 1500va or 5A inductive load at 60MFD, switching at 70 lux
- Thermoplastic moulding
- Black body with clear lens
- IP44 rated

<table>
<thead>
<tr>
<th>Description</th>
<th>Order Code</th>
<th>Price Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nema Photocell</td>
<td>108-6773</td>
<td></td>
</tr>
<tr>
<td>Nema Photocell Kit</td>
<td>108-6774</td>
<td></td>
</tr>
</tbody>
</table>

Photoelectric Switch with Timer

- Compact surface mounting photocell
- 10A resistive, 3A inductive load
- Switching level adjustable between approx. 5 - 300 lux
- Run back timer adjustable to stay on between 1 - 8 hours after switch on
- ABS corner in grey
- IP44 rated
- Dimensions (WxDxH): 68 x 110 x 38mm

<table>
<thead>
<tr>
<th>Order Code</th>
<th>Price Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>108-6775</td>
<td></td>
</tr>
</tbody>
</table>

Stand Alone PIR 360°

- ABS casing
- Adjustable lux level
- 4.5m radius range
- 360° detection zone
- Time on adjustable 10sec - 4min
- Max. 1000W incandescent load capacity
- Max. 300W fluorescent load capacity
- BS EN 60730-2-7
- IP20 rated
- Dimensions (H x W x D): 110 x 110 x 25mm

Dusk to Dawn Photocell (Adjustable)

- Switches lights on at dusk and off at a chosen period. Ideal for outdoor lighting during the evening, for security and convenience.
- Photocell range, 10 lux to infinite lux
- Adjustable time lag before switching off, 1 to 16 hours
- Up to 6A (1500W) of tungsten or up to 4A (1000W) of fluorescent or discharge
- IP45 weatherproof rating
- Complete with back box

<table>
<thead>
<tr>
<th>Mfrs. List No.</th>
<th>Order Code</th>
<th>Price Each</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>DUSW</td>
<td>818-6797</td>
</tr>
</tbody>
</table>

Dusk to Dawn Photocell

- Switches outdoor lights on at dusk and off at dawn. Ideal for all night security.
- Adjustable photocell, 10 lux to infinite lux
- Extremely compact polycarbonate moulding
- IP54 weatherproof rating
- Vandal resistant
- Up to 6A (1500W) of tungsten or up to 4A (1000W) of fluorescent or discharge

<table>
<thead>
<tr>
<th>Mfrs. List No.</th>
<th>Order Code</th>
<th>Price Each</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>TW5W</td>
<td>818-6693</td>
</tr>
</tbody>
</table>
Surface PIR Switch

- PIR switch brings lights on, only when needed
- Continuous monitoring to ensure lights stay on when area is occupied
- Up to 6A (1500W load) including fluorescent lights
- Photocell range: 100 to 1000 lux and inactive
- Time lag: 10 seconds to 40 minutes in 9 steps
- Ideal for offices, factories, hospitals and schools

Flush Mount PIR Presence Detector

- Ideal for energy saving installations in the workplace, corridors, offices, toilets etc., where light control can make all the difference.
- Switches lights on when presence is detected and to light levels (LUX) set
- 360° circular detection, range up to 7m at 2.5m mounting height
- 3 user friendly adjustments for Time, LUX levels and Metre range
- Timer adjustment - continuous from 5 sec to 20 minutes (up to 30 or 60 minutes with IR10 remote)
- Lux adjustment - continuous from 10 to 2000 Lux
- Metre adjustment - approx (±) dia 1m to (+) dia 7m at 2.5m height
- Total switching: 2000W incandescent/halogen, 750W fluorescent/low energy
- LED indication on detection and on optional remote control set-up
- Side or bottom cable entry

360° Flush Mount Ceiling PIR Presence Detector

- Flush mounting
- 360° ceiling flush mount PIR presence detector
- 6m diameter (3m radius) detection range at 2.5m mounting height
- No creep zone - maximum coverage
- Light ON time adjustable from 5 seconds to 18 minutes
- Manual ON/OFF override
- IP44 weatherproof rating (also suitable for outdoor use)
- Adjustable light level control
- Total PIR switching: 2000W (e.g. 20 x 100W GLS) incandescent or halogen, 500W fluorescent/low energy
- Not suitable for discharge lighting
- 75W fan

360° Recessed Ceiling PIR

- Adjustable lux level
- 4 metre detection zone
- 360° detection area
- Time on adjustable 5 secs - 15 mins approx.
- Max 2000W incandescent/500W fluorescent load capacity
- Recessed spring clip flush fixing: Unobtrusive when installed
- Polycarbonate
- BS EN 60869-1, EN 60869-2-1
- IP20

Multi-PIR Light Controller

- Multi-PIR light controller
- Switches up to 2000W halogen, 1000W incandescent, 500W fluorescent or 22W low energy
- 12m detection range with 180° area of detection

PIR Light Controller 180°

- PIR light controller for internal and external use
- IP55 weatherproof rating
- Available in black and white
- 180° detection angle
- LED ON/OFF override
- Quick and easy installation
- Light OFF times adjustable from 5 seconds to 5 minutes

180° PIR Security Light Controller

- PIR light controller for new and existing installations
- Switches up to 2000W incandescent or halogen, 500W fluorescent or 22W low energy
- 12m detection range with 140° angle of detection
- Light ON times adjustable from 5 seconds to 5 minutes

Surface Mount PIR Presence Detector

- Ideal for energy saving installations in the workplace, corridors, offices, toilets etc., where light control can make all the difference.
- Switches lights on when presence is detected and to light levels (LUX) set
- 360° circular detection, range up to 7m at 2.5m mounting height
- 3 user friendly adjustments for Time, LUX levels and Metre range
- Timer adjustment - continuous from 5 sec to 20 minutes (up to 30 or 60 minutes with IR10 remote)
- Lux adjustment - continuous from 10 to 2000 Lux
- Metre adjustment - approx (±) dia 1m to (+) dia 7m at 2.5m height
- Total switching: 2000W incandescent/halogen, 750W fluorescent/low energy
- LED indication on detection and on optional remote control set-up
- Side or bottom cable entry

PIR Security Light Controller 180°

- Powerful PIR controller for new and existing installations
- Switches up to 2000W incandescent or halogen, 500W fluorescent or 22W low energy
- 12m detection range with 180° angle of detection
- Light ON times adjustable from 5 seconds to 5 minutes

Audio, Office and Electrical
**Lighting Controllers / PLRs - continued**

**7 Day Digital Security Light Switch**

A 24hr/7day digital switch which will automatically turn filament, fluorescent, low energy and low voltage lights ON & OFF at pre-programmed times. A total of 6 ON and 6 OFF independent switching commands can be set to operate over all 7 days (24hr operation) or on individual days.

- Simple to programme and operate
- Optional dusk start feature, turns lights ON at dusk and OFF at a programmed time
- Three position slide switch, allows manual operation, auto operation with timed ON and OFF or auto and photocell operation giving dusk start and timed OFF with additional timed ON’s and OFF if required
- Replaces any conventional single gang (ON/OFF & 2 way) light switch
- Controls 40 to 300W of filament lighting, 20 to 150W low energy lighting, 18 to 76W of fluorescent lighting and 20 to 200W of low voltage lighting
- Can also be used as a normal ON/OFF switch
- 3 year guarantee
- Dimensions (HxWxD), 86 x 86 x 50 mm
- 24hr/7day digital light switch which will automatically turn filament, fluorescent, low energy and low voltage lights
- Three position slide switch, allows manual operation, auto operation with timed ON and OFF or auto and photocell operation giving dusk start and timed OFF with additional timed ON’s and OFF if required
- Replaces any conventional single gang (ON/OFF & 2 way) light switch
- Controls 40 to 300W of filament lighting, 20 to 150W low energy lighting, 18 to 76W of fluorescent lighting and 20 to 200W of low voltage lighting
- Can also be used as a normal ON/OFF switch
- 3 year guarantee
- Dimensions (HxWxD), 86 x 86 x 50 mm
- 24hr/7day digital light switch which will automatically turn filament, fluorescent, low energy and low voltage lights
- Three position slide switch, allows manual operation, auto operation with timed ON and OFF or auto and photocell operation giving dusk start and timed OFF with additional timed ON’s and OFF if required
- Replaces any conventional single gang (ON/OFF & 2 way) light switch
- Controls 40 to 300W of filament lighting, 20 to 150W low energy lighting, 18 to 76W of fluorescent lighting and 20 to 200W of low voltage lighting
- Can also be used as a normal ON/OFF switch
- 3 year guarantee
- Dimensions (HxWxD), 86 x 86 x 50 mm
- 24hr/7day digital light switch which will automatically turn filament, fluorescent, low energy and low voltage lights
- Three position slide switch, allows manual operation, auto operation with timed ON and OFF or auto and photocell operation giving dusk start and timed OFF with additional timed ON’s and OFF if required
- Replaces any conventional single gang (ON/OFF & 2 way) light switch
- Controls 40 to 300W of filament lighting, 20 to 150W low energy lighting, 18 to 76W of fluorescent lighting and 20 to 200W of low voltage lighting
- Can also be used as a normal ON/OFF switch
- 3 year guarantee
- Dimensions (HxWxD), 86 x 86 x 50 mm
- 24hr/7day digital light switch which will automatically turn filament, fluorescent, low energy and low voltage lights
- Three position slide switch, allows manual operation, auto operation with timed ON and OFF or auto and photocell operation giving dusk start and timed OFF with additional timed ON’s and OFF if required
- Replaces any conventional single gang (ON/OFF & 2 way) light switch
- Controls 40 to 300W of filament lighting, 20 to 150W low energy lighting, 18 to 76W of fluorescent lighting and 20 to 200W of low voltage lighting
- Can also be used as a normal ON/OFF switch
- 3 year guarantee
- Dimensions (HxWxD), 86 x 86 x 50 mm

**Slimline Lamp**

- Long life 11 watt/T2 tube (equiv. 60w)
- Fully adjustable arm with 90cm reach
- Height adjustable from 15 - 55cm
- Supplier with table clamp

**60W Classic Desk Light**

- Classic timeless Luxo design
- 60 watt ES desk light (bulb not supplied)
- 1040 mm spring balanced arm
- 160 mm diameter shade
- Supplied with desk clamp - weighted base available

**Task Lighting - Commercial**

**ESD Workstation Lamp**

Ergonomic and professional ESD safe workstation Lamp

- Suitable for use in EPA (Electrostatic Protected Areas) to IEC 61340-5-1 and ANSI/ESD 20.20
- For use on workstations where ESD sensitive devices are being handled
- Powerful 18w Daylight™ energy saving tube (100w equiv.) with 6,500°K light, improves contrast and reduces glare
- Flickerfree electronic ballast for high quality light, work for longer in optimal comfort
- 3-Dimensional head joint to easily position the lamp with only one hand
- High quality metal arm with internal springs for optimal flexibility and durability
- Strong metal stem and clamp for your workstation

**Triple Bright Lamp**

- Professional high-power work-station lamp
- Perfect for lighting up wide work areas where plenty of shadow-free light is needed
- Powerful 3 x 14W Daylight™ energy saving tubes (225W equivalent)
- Flickerfree electronic ballast for high quality light, work for longer in optimal comfort
- Low heat Daylight™ (6500°K), improves contrast and reduces glare
- Daylight™ technology relaxes your eyes and shows colours perfectly
- Shade can be adjusted vertically, horizontally and laterally to any desired position
- High quality metal arm with internal springs for optimal flexibility and durability
- Strong metal lamp stem and clamp for safe working conditions
- Ideal for workstations, benches and large tables in factories, laboratories and schools
- Ideal for drawing boards and medium to large size painting easels
- Weighted table and floorstands available separately
- Lamp head size: 610mm x 110mm x 60mm
- Cord length: 1.5m

**Bench Lamp - 11 Watt Compact Fluorescent**

- Robust reliable shade swivel bracket
- Screw tensioner controls shade adjustment
- Shade designed for maximum light reflection
- Spring balanced arms with parallelogram motion
- Arm movement controlled by screw tensioner
- Robust well designed clamp will not damage desk or worktop
- Double Insulated
- Takes 7/9/11W compact fluorescent lamp
- Fitted with 11W lamp and UK 3A fused plug

Good lighting stimulates productivity and job satisfaction. ‘Any angle’ bench lamps provide the opportunity for each individual to control their own lighting requirements.
Flexible Halogen Luminaires

Haloflex

20W Inspection & Machine Light

- Designed for maximum positioning flexibility in the head movement
- Ideal for machine tools, wood working, general bench illumination etc.
- IP21 and IP54 (dust-resistant and splash-proof) versions available
- Wide range of input voltages available

2x15W Bench Light

- 470 mm wide shade
- 2 x 15 watt tubes and desk clamp supplied
- 1040 mm long reach spring balanced arm
- Can be surface or wall mounted
- Spreads light over a large area

Task Lighting - Industrial

IP64 Bench/Machine Luminaires

Task 21

- Designed for use on mains or extra low safety voltage - can be operated on 12V, 25V, 50V, 110V and 240V
- Adjustable friction arm joints for ease of positioning
- Edison screw lampholder is particularly suitable for vibratory conditions
- Fully enclosed lamp with polycarbonate shield anti-glare visor
- Requires ES GLS lamp, max. 60W (not supplied)
- On/off switch on head for ease of use
- Handle on shade for ease of adjustment
- IP64 rated (dust-proof and splash-proof) versions available
- Fitted with a universal base - can be horizontally or vertically mounted
- Colour co-ordinated desk clamp with trailing lead and cable gland available (not supplied)
- Powder coated for durability
- All wiring enclosed, connector block in base for ease of connection
- Transformers available separately with secondary tapping at 12/24V
- Colour: Gunmetal grey
- Light shade Ø: 127mm
- Arm lengths: 250 x 250 x 250mm

20W Inspection & Machine Light

- Versatile low voltage 20W halogen light
- Four options of input voltage: 12V, 24V, 110V or 240V (with built in transformer)
- Robust and durable, suitable for a wide range of applications
- Stay-put & vibration resistant flexible arm 700mm
- Spot lamp - 60mm base with a single jointed head
- On/off switch on base
- Easy to position and focus as required
- Magnetic base and protective head cover to IP54 available
- Supplied complete with lamp
- Suitable for manufacturing machines, machine tools, graphic design, assembly, inspection and precision mechanical work

TROUBLESHOOTING TIPS

Chat online to one of our technical engineers at farnell.com
### Task Lighting - Industrial - continued

**HF 50W Machine Light**

- Low voltage 50W halogen lights
- Available in either a fixed spot lamp and flexible 700mm arm
- Fitted with on/off switch on head
- Ideal for machine mounting and other marine and waterproof applications
- IP67 rated (dust proof and waterproof)
- Fitted with either linear (T8) or compact fluorescent (CFL) tubes
- Impact resistant polycarbonate tubes
- CFL versions have external magnetic ballasts, T8 versions have internal electronic high frequency ballasts
- Complete with 2 mounting clamps and 2.75m trailing cable

<table>
<thead>
<tr>
<th>Colour</th>
<th>Total Length</th>
<th>Flex - 700mm</th>
<th>Mounting base</th>
<th>Lamp housing</th>
<th>Impact resistant thermosetting plastic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Black</td>
<td>60 x 65mm</td>
<td>Flex - 700mm</td>
<td>60 x 65mm</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Flex Lamp

<table>
<thead>
<tr>
<th>Rating</th>
<th>Code</th>
<th>Price Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>12V</td>
<td>12440</td>
<td>474-307</td>
</tr>
</tbody>
</table>

#### Accessories

<table>
<thead>
<tr>
<th>Accessory</th>
<th>Code</th>
<th>Price Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>12V, 50W lamp</td>
<td>13831</td>
<td>474-344</td>
</tr>
<tr>
<td>24V, 50W lamp</td>
<td>13834A</td>
<td>357-7083</td>
</tr>
<tr>
<td>Desk clamp</td>
<td>14020</td>
<td>474-356</td>
</tr>
<tr>
<td>Magnetic base</td>
<td>12010</td>
<td>474-332</td>
</tr>
</tbody>
</table>

#### T8 Tube Lights

<table>
<thead>
<tr>
<th>Type</th>
<th>Tube Diameter</th>
<th>Total Length</th>
<th>Order Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>240V, 36W T8 Tube Light</td>
<td>80mm</td>
<td>1.35m</td>
<td>108-0004</td>
</tr>
<tr>
<td>110V, 18W CFL Tube Light</td>
<td>60m</td>
<td>478mm</td>
<td>108-0006</td>
</tr>
<tr>
<td>110V, 24W CFL Tube Light</td>
<td>60m</td>
<td>579mm</td>
<td>108-0007</td>
</tr>
</tbody>
</table>

#### Pricing Table

<table>
<thead>
<tr>
<th>Description</th>
<th>Order Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flex Lamp 12V</td>
<td>12440</td>
</tr>
<tr>
<td>Desk Clamp</td>
<td>14020</td>
</tr>
<tr>
<td>Magnetic Base</td>
<td>12010</td>
</tr>
</tbody>
</table>

---

**IP67 Tube Lights**

- Ideal for machine mounting and other marine and waterproof applications
- IP67 rated (dust proof and waterproof)
- Fitted with either linear (T8) or compact fluorescent (CFL) tubes
- Impact resistant polycarbonate tubes
- CFL versions have external magnetic ballasts, T8 versions have internal electronic high frequency ballasts
- Complete with 2 mounting clamps and 2.75m trailing cable

<table>
<thead>
<tr>
<th>Type</th>
<th>Tube Diameter</th>
<th>Total Length</th>
<th>Order Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>240V Tube Lights</td>
<td>80mm</td>
<td>1.35m</td>
<td>108-0004</td>
</tr>
<tr>
<td>18W CFL Tube Light</td>
<td>60m</td>
<td>478mm</td>
<td>108-0006</td>
</tr>
<tr>
<td>24W CFL Tube Light</td>
<td>60m</td>
<td>579mm</td>
<td>108-0007</td>
</tr>
</tbody>
</table>

---

**INTELLIGENT ONLINE BUYING SYSTEM PROVIDING**

Complete cost control, reduced administration time, visibility of your spend, flexibility and personalised to your company’s needs.

farnell.com/ibuy