Installation general information

Socket outlets, switches and other MK wiring accessories can be wall or bench mounted. Do not use a trailing lead for sockets and connection units or mount any devices where they may be subject to excessive moisture or dampness.

Cable management

Socket outlets, switches and other MK wiring accessories can be mounted in a variety of MK trunking systems.

13A Switchsocket Outlets

Standards and approvals

13A socket outlets comply with BS 1363 Part 2: 1995.
Replacement fuses to the 3 gang socket outlets (Logic Plus Only) comply with BS 1362: 1973.

Technical specification

Electrical
Voltage rating: 250V a.c.
Current rating:
13A per socket outlet (except 3 gang which is 13 amp in total)
Terminal capacity:
Live, neutral & earth
3 x 2.5mm²
3 x 4mm²
2 x 6mm² (standard)
(Dual earth terminals on list Nos. K781, K2657, K2737, K2746, K2757, all standard Edge and Aspect sockets, K723, K2958, K2458, K2947, K2947D6, K850, K2977, K2477, K3045, K3077, K2945, K2945D6 and K5357)

Physical
Ambient operating temperature: 
-5°C to +40°C (not to exceed an average of more than 25°C in any 24 hour period)
IP rating:
IP2XD
Max. installation altitude:
2000 metres

Description

A range of socket outlets designed for ease of installation and having all the advantageous design features of the MK range of wiring devices. The 2 gang sockets with outboard rockers (available in Logic Plus and Albany Plus) are of particular value for use by the infirm and partially sighted whilst the same feature in Metalclad Plus is ideal for use with gloved hands.

Non-standard clean earth sockets are for use on installations where restricted access is required and will only accept a 647WHI 13A non-standard plug with T-shaped earth pin. The sockets have two independent earth terminals so that they can also be used for ‘clean earth’ installations. The K2746CE and K2947CE also have two independent earth terminals for ‘clean earth’ installations.

A variety of sockets (see Technical Specification) are fitted with two earth terminals on a common busbar to provide a double earth facility for use when installations require a high integrity protective connection as specified within BS 7671: 2008. These should be referred to for guidance.

The products can be quickly installed as replacement for existing 13 amp sockets or in a new installation.

Fuse carriers (Logic Plus 3 gang switchsocket only)
The fuse carrier is opened by a fast-acting, screwdriver-operated, worm-drive screw for ease of replacement.
13A Switchsocket Outlets

**Features**

- Moulded ‘on’ indicator flash on plastic switches will not rub off – totally safe
- Matching Metal rocker Switches (Edge, Aspect and Alloy only)
- Optional neon indicators in the switch rockers with 175° visibility in the horizontal and vertical planes
- 3 pin operated safety shutter
- Printed terminal markings on grey rear mouldings for clearer identification
- Top access, angled terminals make wiring easier and quicker
- 3mm minimum switch contact gap
- Double pole switching
- Choice of inboard or outboard positioned rockers
- Additional electrical safety from DP Switch, neutral ‘make first’, ‘break last’ feature
- Switch contacts with silver contacts on both surfaces for good continuity
- Only one size of screwdriver required for installation
- Selection of products incorporating dual earth terminals for high integrity earthing
- Backed out and captive terminal screws
- ‘Clean earth’ sockets available
- Non-standard ‘clean earth’ sockets available

**Installation**

**1 gang switchsocket – view from rear**

Top-facing, angled, backed-out terminals make wiring easier and quicker.
Sentrysocket

Compliance with EC Directives, Standards and approvals

All Sentrysockets comply with the following EC Directives and are CE marked:
- Low Voltage Directive

Sentrysocket RCD Single Sockets comply with the requirements of the following standards:
- BS 7288: 1990
- BS EN 50082-1: 1998

Sentrysocket RCD Double Socket also complies with the requirements of BS EN 61543: 1996 and BS EN 55014-1

Description

Sentrysocket provides a high level of protection against electrocution and gives further protection when used with appliances vulnerable to insulation damage, particularly when they are in damp environments or outdoors. These Sentrysocket units are not suitable for mounting in damp environments or outdoors.

Sentrysocket, incorporating an RCD, is part of a complete range of fixed and portable wiring devices and circuit protection devices suitable for use in domestic, commercial and light industrial applications.

Active control circuits
Incorporate a ‘Re-set’ mechanism and are mains failure sensitive, i.e. they will function under all the normal conditions expected of an RCD, but will also trip in the event of a power cut or a sudden, dramatic reduction in mains voltage. This makes them ideal for use where it would be hazardous for equipment to suddenly energise after return of mains power, such as use with rotating machinery and heat developing apparatus.

Passive control circuits
Incorporate a ‘Stay-set’ mechanism and is mains failure proof, i.e. it will function under all the normal conditions expected of an RCD and will not trip in the event of a power cut. This makes it suitable for use with freezers or in inaccessible or unmanned locations.

Technical specification

<table>
<thead>
<tr>
<th>Electrical</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated Voltage: 240V a.c.</td>
</tr>
<tr>
<td>Current rating: 13A resistive</td>
</tr>
<tr>
<td>Rated tripping current: 30mA and 10mA versions</td>
</tr>
<tr>
<td>Terminal capacity: 3 x 4mm² for 1 gang</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>2 x 4mm² for 2 gang</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Physical</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ambient operating temperature: -5°C to +40°C</td>
</tr>
<tr>
<td>IP rating: IP2XD</td>
</tr>
<tr>
<td>Max. installation altitude: 2000 metres</td>
</tr>
</tbody>
</table>

Sentrysockets are only suitable for use in TN-S system where the Supply Neutral Connection is connected to the Supply Earth.

They are not suitable for connection across two lines of a 127V line to Neutral Voltage System.

Features

- Suitable for most residential, commercial and light industrial applications
- Active and passive control circuit applications
- Comply fully with current Wiring Regulations
- Double pole switching
- Flexible and versatile in use
- Ideal for use with equipment subject to wet weather or high humidity
- Part of a complete range of MK circuit protection devices
- They are a.c. and pulsating d.c. sensitive for residual current
Sentrysocket

Installation

Flush mounting steel wall box
It should be noted that some of the conduit entries may be restricted, depending upon their positions and the depth of box used.

Socket Testing:

Single Socket Testing
After installation, turn the mains electricity supply on.
To test that the Sentrysocket is functioning correctly:
1. Ensure that no appliance is connected to the Sentrysocket. **Switch Sentrysocket on**: The switch should remain closed and the red flag will appear in the window. If the switch fails to remain closed, check that the Supply L and N connections are not reversed or the Supply N connection is not open circuit. If the Sentrysocket is correctly connected and still trips after being switched on, the Sentrysocket is faulty and should not be used.
2. If the Sentrysocket stays on, **press the test button**: The switch will open and the white flag will appear in the window. If the Sentrysocket does not trip and there is mains voltage present at the socket outlet, Sentrysocket is faulty and should not be used.
3. **Switch Sentrysocket on**: Connect an RCD tester and ensure that the Sentrysocket trips within the specified time:
   - ≤ 200 ms AT RATED TRIP CURRENT
   - ≤ 40 ms AT 5 x RATED TRIP CURRENT
   If the Sentrysocket does not trip within the specified times then the product is faulty and should not be used (if more than one RCD is in series then there is no guarantee as to which device will trip first).
4. **Reset all tripped RCD’s including the Sentrysocket.**
5. **Switch off the mains supply switch disconnector.** On mains failure, a Sentrysocket with Active Control Circuit will trip, whilst a Sentrysocket with Passive Control Circuit will not trip. If the Active Control device does not trip, it is faulty and should not be used – see note below. If no faults have been found then installation testing has been completed successfully.

**Note:** If a fault is identified at any stage of installation testing procedure do not use Sentrysocket, and contact your local electrician, or your local MK stockist.

Double Socket Testing
After installation, turn the mains electricity supply on.
To test that the Sentrysocket is functioning correctly follow the steps 1 to 4 below:
1. Ensure that no appliance is connected to the Sentrysocket.
2. **Reset** – Press the button marked R (for Reset) – the contact status indicator should show red, indicating that the socket outlets are now live (if the switches are in the ON positions).
3. **Test** – Press the TEST button marked T (for Test), the product should trip with the contact status indicator showing black. In this state the socket outlets are disconnected from the supply.
4. **Reset** – Press the button marked R again, the contact status indicator should show red.
5. Connect an RCD Tester to either socket outlet and ensure that the Sentrysocket trips with the specified times below:
   - ≤ 200 ms AT RATED TRIP CURRENT
   - ≤ 40 ms AT 5 x RATED TRIP CURRENT
6. Reset the Sentrysocket as in step 2 above.
7. **Switch off the Mains Supply Switch Disconnector.**
8. A Sentrysocket with Active Control Circuit should trip while a Sentrysocket with Passive Control Circuit should not trip.

If all the operations in steps 2 to 8 above give correct results, the Sentrysocket RCD socket outlet is safe to use.

If the procedures in steps 2 to 8 above are not completed correctly, do not use the Sentrysocket product and seek professional advice or contact the MK Technical Sales and Service department on +44 (0)1268 563720.
Filtered Switchsocket Outlets (Logic Plus and Albany Plus)

Standards and approvals
Filtered socket outlets comply with BS 5733: 2010

Description
A range of sockets in the Logic Plus and Albany Plus styles, designed to combat interference to or data losses on sensitive electrical products and systems due to mains borne voltage spikes and RFI.

Such systems include:
- Computer or microprocessor based equipment
- Telecommunications systems
- Electronic measurement equipment
- Cash registers
- Audio visual and hi-fi equipment

These products can be quickly installed as replacements for existing twin 13 amp sockets or in a new installation.

Fitted with two earth terminals to provide a double earth facility for use when installations require a high integrity protective connection as specified within BS 7671: 2008.

Filter cassettes
Filter cassettes are supplied with sockets and have an LED which shows green under normal conditions but will turn red or extinguish when a replacement cassette (K1800WHI) is required. An alarm will also beep at 5 second intervals to indicate replacement necessity. It can be de-activated if required.

Technical specification

Electrical
Current rating: 13A maximum total for 2 sockets
Voltage rating: 250V a.c. 50Hz
Earth leakage: 0.5 mA
Suppression: 150 kHz + 30 MHz (transients)
Maximum energy absorption: 140 Joules l – n
140 Joules l – e
Terminal capacity: 2 x 6mm²
3 x 4mm²
3 x 2.5mm²
3 x 1.5mm²

Physical
Operating temperature: -5°C to +40°C (not to exceed an average of more than 25°C in any 24 hour period)
Thermal overload: The K1826 and K2826 filter socket incorporates a thermal overload device in the RFI filter section. Overload current causes temperature rise, resulting in automatic ‘trip out’. The overload device will re-set as the temperature falls.
IP rating: IP2XD
Max. installation altitude: 2000 metres

Features
- Moulded ‘on’ indicator flash on switches will not rub off – totally safe
- 3 pin operated safety shutter
- Printed terminal markings on grey rear mouldings for clearer identification
- Reduces risk of damage to equipment and down time
- Reduces risk of data loss
- 2 way filtering – into appliance and back into mains supply
- Double pole switches
- Dual earth terminals for high integrity earthing
- Clearly visible LED on filter cassette, changes from green to red when replacement required
- Simple replacement of cassettes
- 10 year guarantee (except filter cassette)
- 3mm minimum switch contact gap
- Backed out and captive terminal screws
Filtered Switchsocket Outlets

**Product features**

Ensure that the connecting pins protruding from the bottom of the replacement Filter Cassette are not damaged or bent before installation. If in doubt, contact MK Technical Sales Service Department on +44 (0)1268 563720.

1. The MK Filtered Switchsocket, in common with many other filters uses Voltage Dependant Resistors for spike suppression purposes. The performance of these devices will eventually degrade with use to a level where they will no longer provide adequate protection.

When this occurs the spike filter performance of the MK Filtered Switchsocket outlet can be restored by replacing the filter cassette.

When the filter cassette needs replacing, the green indicator on the Replacement Filer Cassette will glow red or go out, an audible beep every five seconds may also be heard.

Note: As with all filters, these Filter Sockets will reduce the magnitude of RFI and spikes and consequently their ability to interfere with connected equipment. They will not completely remove the interference from the supply.

**Installation**

**Replaceable Spike Filter Cassette**

**Note:** To ensure a safe installation;

- this product should be installed by a competent person.
- it is important that all connections are made as instructed.

1. The filter cassette can be removed and replaced without switching off the mains or removing any plugs from the filter socket.

2. Remove the filter cassette by turning the jacking screw anti-clockwise to partially eject it (see Figure 2), and then gently pulling the cassette upwards, (see Figure 2a).

3. **Only fit the MK Replacement Filter Cassette (K1800WHI).**

   Unpack the new filter cassette and check that the pins along the bottom edge are not bent or broken. If these pins are damaged, do not fit the replacement cassette. The audible sound indicating that the filter cassette needs replacing, is optional. It may be prevented by removing the small connector on the two end pins, (see Figure 2b), before fitting it into the socket.
Round Pin Socket Outlets

Standards and approvals
Round pin socket outlets comply with BS 546: 1950.

Technical specification

Electrical
Voltage rating:
250V a.c.
Terminal capacities:
2 amp sockets:
7 x 1mm²
4 x 1.5mm²
2 x 2.5mm²
1 x 4mm²
5 amp sockets:
3 x 2.5mm²
2 x 4mm²
2 x 6mm² (stranded)
15 amp sockets:
3 x 2.5mm²
3 x 4mm²
2 x 6mm² (stranded)

Physical
Ambient operating temperature:
-5°C to +40°C (not to exceed an average of more than 25°C in any 24 hour period)
IP rating:
IP2XD
Max. installation altitude:
2000 metres

Description
A range of round pin socket outlets designed for ease of installation and having all the advantages and design features of the MK range of wiring devices. These products can be quickly installed as replacements for existing socket outlets or in new installations.

Features
- Top access terminals make wiring easier and quicker
- Integral ON indicator on plastic switches will not rub off – totally safe
- Switch contact gap, 3mm minimum
- Double pole switching
- Terminal screws backed out
- Additional electrical safety from neutral “make first”, “break last” feature on switched sockets
- Switch contacts with silver contact points on both surfaces for good continuity
- 5A and 15A sockets contain a 3 pin operated safety shutter
- White terminal markings on grey rear mouldings for clearer identification
- 2A socket (Earth Pin Operated) Shuttered
Non UK Socket Outlets

Standards and approvals
15A American sockets comply with SASO 2203: 2003
16A Universal sockets comply with BS 5733: 2010
16A 2P+E German sockets comply with IEC 60884-1: 2006

Technical specification

Electrical
15A American
Voltage rating: 127V a.c.
Current rating: 15A
Terminal capacity:
Live, neutral & earth
3 x 2.5mm²
2 x 4mm²
1 x 6mm² (stranded)
Max. installation altitude: 2000 metres

16A 2P+E German Socket
Voltage rating: 250V a.c.
Current rating: 16A
Terminal capacity:
Live, neutral & earth
4 x 1.5mm²
2 x 2.5mm²
1 x 4mm²

Physical
Ambient operating temperature:
-5°C to +40°C
(not to exceed an average of more than 25°C in any 24 hour period)
IP rating: IP2XD
Max. installation altitude: 2000 metres

15A AMERICAN (Logic Plus*)

 BOX TYPES

<table>
<thead>
<tr>
<th></th>
<th>Flush</th>
<th>Flush (for extra wiring space)</th>
<th>Surface</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 gang</td>
<td>861ZIC</td>
<td>866ZIC</td>
<td>K2140WHI</td>
</tr>
<tr>
<td>2 gang</td>
<td>862ZIC</td>
<td>886ZIC</td>
<td>K2142WHI</td>
</tr>
</tbody>
</table>

16A 2P+E GERMAN (Logic Plus*)

 BOX TYPES

<table>
<thead>
<tr>
<th></th>
<th>Flush</th>
<th>Surface</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 gang</td>
<td>866ZIC</td>
<td>K2031WHI</td>
</tr>
<tr>
<td>2 gang</td>
<td>886ZIC</td>
<td>K2172WHI</td>
</tr>
</tbody>
</table>

Note: 16A 2P+E German Outlet: These products are NOT suitable for 25mm deep boxes.

* 15A American Sockets and 16A 2P+E German Sockets are also available in a modular format for MK decorative wiring device ranges.
Three Pole Fan Isolators

Standards and approvals
Comply with BS EN 60947: 1992

Technical specification

Electrical
Voltage rating: 250V a.c. 50Hz
Current rating: 10 amps
Terminal capacity:
  4 x 1mm²
  4 x 1.5mm²
  3 x 2.5mm²
  2 x 4mm²
  1 x 6mm²
Contact gap: 4mm switch contact gap

Classifications
Method of operation: Stored energy operation
Suitability for isolation: Suitable for isolation

Ratings
Utilisation category: AC23B
Rated operational voltage (Ue): 250V
Conventional free air thermal current (It): 10A
Rated frequency: 50Hz
Rated making capacity: 100A rms
Rated breaking capacity: 80A rms
Rated conditional short-circuit current: 6000A rms
(with supply side protective device GEC NIT 16 BS88: part 2: 1988 16A 550VAC utilisation category gG 80kA breaking capacity fuse links.)

Physical
Operating temperature: −5°C to +40°C
IP rating: IP4X
Max. installation altitude: 2000 metres

Features
- Switchlock list no. K4858 is available to allow the isolator to be locked in the disconnected position to facilitate fan maintenance

Description
The MK Three Pole Fan Isolator provides a safe and simple method of isolating mechanical fan units and is particularly useful in bathrooms, toilets, storerooms and basements where there is little or no natural light.

For example, timer controlled fans are often linked into the lighting circuit for energy saving and convenience. In such an installation there is often a need for the lighting circuit to remain live to provide light whilst the fan unit is externally isolated so that routine maintenance and repairs can be carried out in complete safety.

The fan isolator can be used as a double pole or triple pole isolator. In addition it includes a clear on/off indicator and the frontplate features a fan isolator symbol for easy circuit identification.

Wiring diagrams

Two pole switching for fan units without timers

Three pole switching for fan units incorporating timers
Shaver Socket Outlets (Logic Plus)

Standards and approvals
Plug pin apertures, and engagement face dimensions comply with BS 4573: 1970.

Description
Designed for ease of installation and having many of the advantageous features of the Logic Plus range.
The shaver socket outlet accommodates the following plugs:
British 5mm dia pins on 16.6mm pitch (230V socket) to BS 4573: 1970.
European 4mm dia pins on 17 to 19mm pitch (230V socket) to IEC 83: 1975 Standard C5.
Australian 6.5 x 1.6 flat blades each set at 30° to the vertical on a nominal pitch of 13.7mm (230V socket).
AS C112: 1964.
The fuse carrier is captive and opened by a fast acting, screwdriver operated worm drive screw for ease of replacement.

Technical specification

<table>
<thead>
<tr>
<th>Electrical</th>
</tr>
</thead>
<tbody>
<tr>
<td>Voltage rating: 200-250V a.c. input</td>
</tr>
<tr>
<td>Maximum load: 200 mA (internal thermister trip current)</td>
</tr>
<tr>
<td>Terminal capacities: Each terminal will accommodate 1 x 4mm², or 2 x 2.5mm², 3 x 1.5 solid conductors</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Physical</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ambient operating temperature: -5°C to +40°C</td>
</tr>
<tr>
<td>IP rating: IP2XD</td>
</tr>
<tr>
<td>Max. installation altitude: 2000 metres</td>
</tr>
</tbody>
</table>

Features
- Top access terminals make wiring quicker and easier
- Only one size of screwdriver required for installation
- Terminal screws supplied ‘backed out’ and held captive within the terminal moulding
- White printed terminal markings on grey rear mouldings for clearer identification
- Front plate fixing screws retained on rear case moulding

Installation
This shaver socket must not be used in bathrooms and washrooms. Non-isolated, fused, shaver socket outlets must never be installed in any location subject to splashes, condensation or damp conditions.
For installation in any other room where a wash basin or shower cubicle is installed then refer to the current IEE wiring regulations.
Shaver/Toothbrush Supply Units

Standards and approvals
Shaver/Toothbrush supply units comply with BS 61558-2-5: 1998
Accommodates plugs as follows:
- British 5mm dia pins on 16.6mm pitch (230V socket) to BS 4573: 1970.
- European 4mm dia pins on 17 to 19mm pitch (230V socket) to IEC 83: 1975 Standard C5.
- Australian 6.5 x 1.6 flat blades each set at 30° to the vertical on a nominal pitch of 13.7mm (230V socket) AS C112: 1964.
- American 6.6 x 1.6 flat horizontal blades on 12.7mm pitch (115V socket) to ANSI C73.10.

Description
Designed for ease of installation and having many of the advantageous design features of the MK range of wiring devices.
May be used in bathrooms and washrooms – must only be installed in accordance with BS 7671: 2008.

Features
- Bottom access terminal screws make wiring quicker and easier
- Automatic primary supply switching on insertion of plug
- Choice of 230V or 115V output socket positions
- Safety interlocked shutters to prevent insertion of two plugs simultaneously
- Only one size of screwdriver required for installation
- Terminal screws supplied ‘backed out’ and held captive within the terminal moulding
- Printed terminal markings on grey rear mouldings for clearer identification
- Front plate fixing screws retained on rear case moulding
- Integral over current device to protect transformer
- Only one size of screwdriver required for installation
- Terminal screws supplied ‘backed out’ and held captive within the terminal moulding
- Printed terminal markings on grey rear mouldings for clearer identification
- Front plate fixing screws retained on rear case moulding
- Integral over current device to protect transformer
- Suitable for use with electric toothbrush chargers.

Installation
Shaver/Toothbrush supply unit should be wall mounted.

Wiring
An installation instruction leaflet is available. List no. 44994 PL.

Technical specification

Electrical
Voltage rating:
- K701: 230V a.c. Input (will operate at 220-250V a.c.)
- K706: 127V a.c. Input (will operate at 110-130V a.c.)
- 230V or 115V nominal outputs

Current rating:
- K701: 200mA max. (internal thermister trip current)
- K706: 400mA max. (internal thermister trip current)

Maximum load:
- 20VA
- No load voltage < 275V

Terminal capacities:
- Each terminal will accommodate 1 x 4mm² or 2 x 2.5mm² solid conductors*

Physical
Ambient operating temperature:
- -5°C to +40°C

IP rating:
- IP41 (In Zone 2 if fixed where direct spray from showers is unlikely)

Max. installation altitude:
- 2000 metres

*The design of this unit means that on no load the transformer output is allowed to be as high as 275V. This means that rechargeable shavers and toothbrushes intended for use on the continent may be damaged by the inrush current created by this higher voltage. Rechargeable shavers and toothbrushes with a wide range of input voltage should be recharged at 115V. Shavers and toothbrushes manufactured for the UK are designed to be used with a transformer unit. Loads in excess of 20VA may cause the solid state overload to operate before shaving is completed. This is to protect the transformer.
Connection Units, 20A Switches and Flex Outlets

Standards and approvals

All Logic Plus Connection Units comply with BS 1363 Part 4: 1995.
The 20A DP switch complies with BS EN 60669-1: 1999.
The flex outlet plate complies with BS 5733: 2010.
Fuses are to BS 1362.

Description

A range of 13A fused connection units and 20A DP switches designed for the connection of refrigerators, water heaters, central heating boilers and other fixed appliances.
The ranges are designed for ease of installation and have the advantageous design features of the MK range of wiring devices.

Neon indicators

Products are available with Neon indicators included in the rockers of the switched connection units.
In the case of unswitched units, they can be located centrally and uppermost on the face plate.
Neon indicators are integrally wired into the product and do not require separate connection when installing. The design gives 175° visibility in the horizontal and vertical planes.

Fuse carriers

These are captive and are opened by a fast acting, screwdriver operated worm drive for ease of replacement. A tamper-proof version is also available.
Fuse carriers can be locked open using a padlock, List No. K2000.

Flex outlets

Bottom outlet types are supplied with blanking plug allowing use where the bottom outlet is not required. Spare blanking plugs are available.
The products are equipped with very strong, push-fit nylon cord grips making installation safe, quick and easy.

Flex outlet plate

An unfused flex outlet with cord grip and 3 pairs of terminals.

Technical specification

Electrical

<table>
<thead>
<tr>
<th>Voltage rating:</th>
<th>250V a.c.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Current rating:</td>
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<tr>
<td>Connection units – 13 amp</td>
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<tr>
<td>DP switches – 20 amp</td>
<td></td>
</tr>
<tr>
<td>Flex outlets – 20 amp</td>
<td></td>
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<tr>
<td>Terminal capacity:</td>
<td></td>
</tr>
<tr>
<td>Supply terminal: 2 x 6mm² stranded</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2 x 4mm²</td>
</tr>
<tr>
<td></td>
<td>3 x 2.5mm²</td>
</tr>
<tr>
<td>Load terminals: 2 x 6mm² stranded</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2 x 4mm²</td>
</tr>
<tr>
<td></td>
<td>3 x 2.5mm²</td>
</tr>
<tr>
<td>Cord Grip capacity:</td>
<td></td>
</tr>
<tr>
<td>Connection units:</td>
<td>min: 2 core, 0.5mm max: 3 core, 1.5mm</td>
</tr>
<tr>
<td>20 amp DP switches &amp; flex outlet plate</td>
<td>min: 3 core, 1.5mm max: 3 core, 2.5mm</td>
</tr>
</tbody>
</table>

Physical

| Ambient operating temperature: | -5°C to +40°C |
| (not to exceed an average of more than 25°C in any 24 hour period) |
| IP rating:                     |            |
| With flex outlet: IP2XD        |            |
| Without flex outlet: IP4X      |            |
| Max. installation altitude:    | 2000 metres |

Installation

Wiring

Products must be installed in accordance with current IEE Regulations.

Changing Fuses

1. Unscrew the fuse carrier screw to partially eject the carrier.
2. Carefully lever the carrier out further to remove the fuse. Note: The carrier does not come fully out.
3. Always replace with a BS 1362 type fuse (as used in 13A plugs) of the correct rating.
4. Consistent fuse blowing could mean a faulty appliance. If in doubt, consult a qualified electrician.
5. Push carrier back until engaging with jacking screw. Screw the carrier down until flush with surface of the plate. Do not over tighten the screw.
Connection Units, 20A Switches and Flex Outlets

Features

- Optional indicators in the switch rockers with 175° visibility in the horizontal and vertical planes
- Worm-drive operated fuse carriers for additional security (tamper-proof version available)
- Fuse carrier lockable in open position
- All supply and load cables can be cut and stripped to the same length
- Integrally wired Neon indicators save installation time
- Push-fit cord grips, for safer, quicker installation
- Angled, top mounted terminal screws simplify wiring
- Moulded ‘on’ indicator flash on switches cannot rub off – totally safe
- Captive fuse carrier
- Additional electrical safety from DP Switch, neutral ‘make first’, ‘break last’ feature
- Secure cable and flexible cord connection
- All terminal and fixing screws operated by one-size (4mm) screwdriver
- Backed out and captive terminal screws

Note: These switches are not recommended for switching large banks of PCs

PLEASE NOTE THAT THE TERMINAL LAYOUT OF THE FLEX OUTLET, K1090, IS DIFFERENT TO THE OTHER SHOWN ABOVE.
**20A Lockable Fire Alarm Isolator Switch**

**Description**

The isolators comply with BS 60669-2-4: 2005

The Isolator is intended for use with building Alarm Systems that are required to comply with BS 5839 Part 1.

BS 5839 Part 1 states;

Clause 25.2c “To facilitate local isolation during maintenance, suitable means should be provided for double pole isolation of the low voltage supply circuit that serves the power supply and control equipment.”

Clause 29.2e. “Means should be provided for double pole isolation of the mains supply to all parts of the system; the isolation facilities should be suitably sited, in the vicinity of the equipment served, for use by maintenance technicians without the need for access to remote parts of the building. It should be possible to lock the facilities in both the normal and isolate positions to prevent unauthorized use.”

**Features**

- The built in lock ensures power cannot be provided without the key being operated, making it safe to carry out maintenance to Fire Alarms
- Printed terminal markings on grey rear of the switch moulding for clearer identification
- Double Pole switching
- Only one size of screwdriver required for installation

**Technical specification**

<table>
<thead>
<tr>
<th><strong>Electrical</strong></th>
</tr>
</thead>
</table>
| Voltage rating: 240V a.c.  
| Current rating: 20 amp  
| Terminal capacity:  
| Live, Neutral & Earth | 3 x 2.5mm²  
| 3 x 4mm²  
| 2 x 6mm²  

<table>
<thead>
<tr>
<th><strong>Physical</strong></th>
</tr>
</thead>
</table>
| Ambient operating temperature: -5°C to +40°C  
| (not to exceed an average of more than 25°C in any 24 hour period)  
| IP rating:  
| With flex outlet: IP2XD  
| Without flex outlet: IP4X  
| Max. installation altitude: 2000 metres  
| IP rating:  
| IP2XD  
| Max. installation altitude 2000 metres  

Note: The lock fitted to these isolators is universal for all MK 20A Isolators in the range. However, the keys are different to those used on all other MK Key Operated Switched Products, for added security.
High Current Switches and Cooker Control Units

Standards and approvals
All DP switches in the range conform to BS EN 60669-1: 1999
All Cooker Control Units in the range conform to BS 4177: 1992.
Cooker Connection Unit conforms to BS 5733: 2010

Technical specification

Electrical
Voltage rating: 250V a.c.
Current:
32A Switch
45A Cooker Control Unit
45A Cooker Connection Unit
50A Switch (Resistive Load)
Switch:
3mm contact gap
Double pole operation – except socket switch on Cooker Control Units
Terminal capacity, 50A Switches, Cooker Control Units, and Cooker Connection Units:
4 x 4mm²
3 x 6mm²
1 x 10mm²
1 x 16mm²
Terminal capacity, 32A Switch:
3 x 2.5mm²
2 x 4mm²
1 x 6mm²

Physical
Ambient operating temperature:
-5°C to +40°C
(not to exceed an average of more than 25°C in any 24 hour period)
IP rating:
IP2xD (K5061, K5060, K5041, K5040, K5001, K5011)
IP4x (K5105, K5215, K5205, K5215CK, K5215SH, K5230, K5011)
Max. installation altitude:
2000 metres

Description
A range of switches and cooker control units suitable for the switching of all domestic, commercial and industrial appliances where higher current ratings are required, i.e. cookers, heaters, units etc. Metal units are particularly suitable for refurbishment projects.

Features
- Positive switch action
- Positive double pole switching
- Toggle action switches
- Metal front plates available
- Replaceable neon indicators
- Wide product choice

Note: These switches are not recommended for switching large banks of PCs
Plateswitches

Standards and approvals

All MK plateswitches comply with BS EN 60669-1: 1999

Technical specification

Electrical
- Voltage rating: 250V a.c. 50Hz
- Current rating: 10 amps – no derating when used on fluorescent or inductive loads
- Terminal capacity:
  - All products except K4870/71/72:
    - 4 x 1mm²
    - 4 x 1.5mm²
    - 3 x 2.5mm²
    - 2 x 4mm²
    - 1 x 6mm²
  - For products K4870/71/72:
    - 4 x 1mm²
    - 4 x 1.5mm²
    - 2 x 2.5mm²
    - 1 x 4mm²
- Contact gap: 3mm switch contact gap

Physical
- Operating temperature: -5°C to +40°C
- IP Rating: IP2XD
- Max. installation altitude: 2000 metres
- Operational testing (all plateswitches): tested to 100,000 operations for mechanical life tested to 40,000 operations at 10 amp rating tested to 10,000 operations at 20 amp rating

Description

MK plateswitches are designed to blend in with the decor, whilst complementing a wide range of other MK wiring devices. They are designed for easy installation in plasterdepth boxes and are suitable for controlling lighting circuits in domestic, commercial and industrial applications.

Neon locator

A textured, polycarbonate moulding allowing the glow of the neon to be seen at almost any angle. Designed to complement the Logic Plus 1, 2, or 3 gang plateswitches. It is easy to install in existing locations. For 3 gang applications using a 25mm deep box simplifies wiring.

Features

- Two way switches can be wired as one or two way
- All products clearly printed with BS Nos., ratings, etc
- Matching Grid switches available in 10 or 20A ratings
- 3mm switch contact gap
- Positive switch action
- Top access, backed out and captive terminal screws (except Logic Plus list numbers K4870, K4871 and K4872)
- Neon locator available making switch easy to find in darkened rooms
Plateswitches

Wiring Diagrams

One-way switching

Two-way switching – 2 wire control

Two-way switching plus intermediate switching – 2 wire control

Two-way switching – 3 wire control

Two-way switching plus intermediate switching – 3 wire control

N.B. Terminal positions may alter. The above diagrams are to show wiring layout.
Dimmer Switches

Standards and approvals

All CE marked MK dimmer switches comply with the EC Low Voltage Directive: 73/23/EEC, Electromagnetic Compatibility Directive 89/336/EEC. They also comply with BS EN 60669-2-1 and BS EN 55015.

*Non-UK dimmer switches see note below.

Technical specification

**Electrical**
- Mains Supply Voltage:
  - 230V a.c. (Nominal)
  - 220V a.c. (Nominal, Non-UK)
- Mains Supply Voltage Range:
  - 216V a.c. to 253V a.c.
  - 200V a.c. to 250V a.c.
- Mains Supply Frequency:
  - 50Hz ±3Hz
  - 60Hz ±3Hz
- Type of Loads:
  **Standard Dimmers:**
  Fused GLS Tungsten Filament lamps only to BS EN60669: 1996 and BS EN60432-1: 2000, rated at 230/240V.
  **Intelligent Dimmers:**
  Fused GLS Tungsten Filament lamps to BS EN60669: 1996 and BS EN60432-1.2 rated at 230/240V. Dimmable wire wound or electronic low Voltage Transformers of good quality. Can also be used with good quality mains voltage halogen lamps incorporating GU10 bases. Please check with lamp manufacturer to determine suitability.

**Note:** Transformer must be suitable for dimming using phase delay (leading edge) and NOT only phase cut (trailing edge) type of dimmers.

**Warning:** Standard and Intelligent dimmer switches are not suitable for use with Fluorescent Lamps or Energy Saving Lamps.

**CFL lamp dimmers:**
- Dimmable compact fluorescent lamps rated at 220/240V.

**Physical**
- Operating temperature: 0°C to +40°C
- IP rating: IP2XD
- Max. installation altitude: 2000 metres

Description

MK dimmer switches can fall into one of four categories:
1) Standard Dimmer Switches
2) Intelligent Dimmer Switches
3) Non-UK Dimmer Switches
4) CFL lamp dimmer switches

**Standard Dimmer Switches**
Dimmer Switches belonging to this category employ simpler electronic circuitry and the CE marked products make use of thermal switches to conform to the very stringent requirements of the Standard BS EN 60669-2-1, for overload protection. They are only suitable for use with normal tungsten filament lamps with internal fuses, conforming to BS EN 60064: 1996 and BS EN 60432-1 Standards and do not have any added features, e.g. soft start, ability to control dimmable transformers for low voltage, etc.

**Standard Dimmer Switches are not suitable for use with Fluorescent Lamps or Energy Saving Lamps.**

**Intelligent Dimmer Switches**
Dimmer Switches belonging to this category employ the latest, state of the art, micro-controller based electronic circuitry and use current sensing to compute the load conditions. These products show progressive reaction to overload conditions, depending on the extent of overload as shown in the table below. List numbers belonging to this category are identified by the suffix letters LV, e.g. K1501 WHI LV. All MK Intelligent Dimmer Switches employ one pole change over switches to facilitate two way switching.

**Intelligent Dimmer Switches are not suitable for use with transformers for Low Voltage Lighting or Fluorescent Loads, including Energy Saving Lamps.**

**CFL lamp dimmer switches**
Dimmer switches belonging to this category only conform to the relevant parts of BS EN 66069-2-1, without conforming to BS EN 55015. Loads suitable for use with standard dimmer switches above are also suitable for use with this category of dimmer switch.

**CFL lamp dimmer switches**
- Dimmer switches belonging to this category employ the latest, state of the art, micro-controller based electronic circuitry used in other intelligent dimmer switches. In addition they utilise control software to improve performance and life of dimmable compact fluorescent lamps.
- Only one Dimmer Switch can be used in a two-way switching circuit.
Dimmer Switches

Features

Intelligent Dimmer Switches incorporate the following advanced features:
- Suitable for dimming Low Voltage Halogen lamps via good quality, fully dimmable electronic or wire-wound transformers.
- Can be used with good quality mains voltage halogen lamps incorporating GU10 bases. Please check with lamp manufacturer to determine suitability.
- Load current sensing: These dimmers continuously monitor the load current to help protect against overheating in wire wound transformers and to prevent overloading of the dimmer for long term reliability.
- Soft Start, which gradually increases the light output from the load over 1 to 3 seconds after switch on. The Soft Start feature is also particularly beneficial when used to dim Mains Voltage Tungsten Halogen lamps which inherently have a very high inrush current at switch on.

Standard Dimmer Switches
- Suitable only for use with fused GLS Tungsten Filament lamps to BS EN 60064 and BS EN 60432-1.
- One way dimmer switches incorporate manual soft start.
- Incorporate thermal switches for protection against overload.

CFL Lamp dimmer switches
- Suitable only for use with compact fluorescent lamps designed specifically for dimming.
- Load current sensing: These dimmers continuously monitor the load current to help prevent overloading of the dimmer for long term reliability.
- Full brightness start to increase lamp life, the dimmer will reduce the light level to the level set within 2 - 3 seconds.
- Total connected load must not be less than the minimum power load rating of 11W.
- A maximum of 4 lamps only must be connected to each dimmer switch.

60-500W Circuit

<table>
<thead>
<tr>
<th>Overload management:</th>
<th>60-500W nominal</th>
<th>Overload management:</th>
<th>40-300W nominal</th>
</tr>
</thead>
<tbody>
<tr>
<td>60-625W function without dimming</td>
<td>&gt; 625-750W dim to 68V±8V r.m.s.</td>
<td>&gt; 375-500W dim to 68V±8V r.m.s.</td>
<td>&gt; 500W switch off</td>
</tr>
<tr>
<td>&gt; 750W switch off</td>
<td>&gt; 375-500W dim to 68V±8V r.m.s.</td>
<td>&gt; 500W switch off</td>
<td>This is the min. controlled voltage</td>
</tr>
</tbody>
</table>

60-500W Circuit

Max No. of Transformers (total rating of all transformers must not exceed maximum VA rating of dimmer)

<table>
<thead>
<tr>
<th>Rating</th>
<th>Max No. of Transformers</th>
</tr>
</thead>
<tbody>
<tr>
<td>40-300W (LV and mains voltage halogen rating 40-240W/VA)</td>
<td>4</td>
</tr>
<tr>
<td>2 x 40-300W (LV and mains voltage halogen rating 2 x 40-240W/VA)</td>
<td>4 per dimmer</td>
</tr>
<tr>
<td>60-500W (LV and mains voltage halogen 60-400W/VA)</td>
<td>5</td>
</tr>
</tbody>
</table>

INTELLIGENT DIMMER SWITCHES

Please note the dimmer may be substituted for any of the Two-Way switches shown on page 53.
Euro and LJU6C Data Frontplates

Standards and approvals
BS 5733: 2010

Description
Frontplates used for mounting snapfit Modules.

Features
- 1G, 2G and 3G Euro frontplates
- 1G LJU6C Frontplate
- Accept industry standard (Euro) and LJU6C snapfit modules
- 1G Euro frontplate accepts 2 Euro modules, (50 x 50mm aperture)
- 2G Euro frontplate accepts 4 Euro modules, (100 x 50mm aperture)
- 3G Euro frontplate accepts 6 Euro Modules, (150x50mm aperture)
- 1G LJU6C frontplate accepts two LJU6C modules (27 x 37mm aperture)
- 1/2 module (12.5 x 50mm) blank available for Euro frontplates
# Power Modules

**Standards and approvals**

- K5830: BS 1363 Part 2: 1995
- K5831: IEC 60884-1: 2006
- K5832: SASSO 2203: 2003
- K5833: BS 546: 1950
- K5834: French National Standard NF C 61-314

**Description**

A range of euro modules designed to provide a variety of power options.

## Technical specification

### 13A UK Electrical

<table>
<thead>
<tr>
<th>Voltage rating</th>
<th>250V a.c.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Current rating</td>
<td>13A</td>
</tr>
<tr>
<td>Terminal capacity</td>
<td>Live, neutral &amp; earth 3 x 2.5mm², 2 x 4mm², 2 x 6mm² (stranded)</td>
</tr>
</tbody>
</table>

**Physical**

- Ambient operating temperature: -5°C to +40°C (not to exceed an average of more than 25°C in any 24 hour period)
- IP rating: IP2X
- Max. installation altitude: 2000 metres
- Max. installation altitude: 2000 metres
- Max. installation altitude: 2000 metres
- Max. installation altitude: 2000 metres

### 5A UK Electrical

<table>
<thead>
<tr>
<th>Voltage rating</th>
<th>250V a.c.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Current rating</td>
<td>5A</td>
</tr>
<tr>
<td>Terminal capacity</td>
<td>Live, neutral &amp; earth 3 x 2.5mm², 2 x 4mm², 2 x 6mm² (stranded)</td>
</tr>
</tbody>
</table>

**Physical**

- Ambient operating temperature: -5°C to +40°C (not to exceed an average of more than 25°C in any 24 hour period)
- IP rating: IP2X
- Max. installation altitude: 2000 metres
- Max. installation altitude: 2000 metres
- Max. installation altitude: 2000 metres
- Max. installation altitude: 2000 metres

### 16A German Electrical

<table>
<thead>
<tr>
<th>Voltage rating</th>
<th>250V a.c.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Current rating</td>
<td>16A</td>
</tr>
<tr>
<td>Terminal capacity</td>
<td>Live, neutral &amp; earth 4 x 1.5mm², 2 x 2.5mm², 1 x 4mm²</td>
</tr>
</tbody>
</table>

**Physical**

- Ambient operating temperature: -5°C to +40°C (not to exceed an average of more than 25°C in any 24 hour period)
- IP rating: IP2X
- Max. installation altitude: 2000 metres
- Max. installation altitude: 2000 metres
- Max. installation altitude: 2000 metres
- Max. installation altitude: 2000 metres

### 16A French/Belgian Electrical

<table>
<thead>
<tr>
<th>Voltage rating</th>
<th>127V a.c.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Current rating</td>
<td>15A</td>
</tr>
<tr>
<td>Terminal capacity</td>
<td>Live, neutral &amp; earth 3 x 2.5mm², 2 x 4mm², 1 x 6mm² (stranded)</td>
</tr>
</tbody>
</table>

**Physical**

- Ambient operating temperature: -5°C to +40°C (not to exceed an average of more than 25°C in any 24 hour period)
- IP rating: IP2X
- Max. installation altitude: 2000 metres
- Max. installation altitude: 2000 metres
- Max. installation altitude: 2000 metres
- Max. installation altitude: 2000 metres

### 15A American Electrical

<table>
<thead>
<tr>
<th>Voltage rating</th>
<th>127V a.c.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Current rating</td>
<td>15A</td>
</tr>
<tr>
<td>Terminal capacity</td>
<td>Live, neutral &amp; earth 4 x 1.5mm², 2 x 2.5mm², 1 x 4mm²</td>
</tr>
</tbody>
</table>

**Physical**

- Ambient operating temperature: -5°C to +40°C (not to exceed an average of more than 25°C in any 24 hour period)
- IP rating: IP2X
- Max. installation altitude: 2000 metres
- Max. installation altitude: 2000 metres
- Max. installation altitude: 2000 metres
- Max. installation altitude: 2000 metres

### 1A USB Charging Module Electrical

<table>
<thead>
<tr>
<th>Input</th>
<th>Voltage rating: 220-240V a.c.</th>
<th>Frequency: 50Hz</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated Current</td>
<td>0.6a</td>
<td>Max current: 1A</td>
</tr>
</tbody>
</table>

**Physical**

- Ambient operating temperature: 0°C to +40°C
- IP rating: IP2X
- Max. installation altitude: 2000 metres
- Max. installation altitude: 2000 metres
- Max. installation altitude: 2000 metres
- Max. installation altitude: 2000 metres

## Dimensions (mm)

### 13A UK

- **BOX TYPES**
  - Minimum: 50mm
  - Extra wiring space: 25mm

### 5A UK

- **BOX TYPES**
  - Minimum: 50mm
  - Extra wiring space: 25mm

### 16A German

- **BOX TYPES**
  - Minimum: 50mm
  - Extra wiring space: 46mm

### 16A French/Belgian

- **BOX TYPES**
  - Minimum: 50mm
  - Extra wiring space: 46mm

### 15A American

- **BOX TYPES**
  - Minimum: 50mm
  - Extra wiring space: 46mm

### 1A USB Charging Module

- **MK EURO FRONT PLATE THICKNESS**
  - > 7mm: Min 35mm
  - < 7mm: Min 46mm

---

**Technical Hotline** +44 (0)1268 563720

**Wiring Devices**

---

**Technical specification**

<table>
<thead>
<tr>
<th>13A UK Electrical</th>
<th>5A UK Electrical</th>
<th>16A German Electrical</th>
<th>16A French/Belgian Electrical</th>
<th>15A American Electrical</th>
<th>1A USB Charging Module Electrical</th>
</tr>
</thead>
<tbody>
<tr>
<td>Voltage rating</td>
<td>250V a.c.</td>
<td>Voltage rating</td>
<td>250V a.c.</td>
<td>Voltage rating</td>
<td>Voltage rating</td>
</tr>
<tr>
<td>Current rating</td>
<td>13A</td>
<td>Current rating</td>
<td>16A</td>
<td>Current rating</td>
<td>127V a.c.</td>
</tr>
<tr>
<td>Terminal capacity</td>
<td>Live, neutral &amp; earth 3 x 2.5mm², 2 x 4mm², 2 x 6mm² (stranded)</td>
<td>Terminal capacity</td>
<td>Live, neutral &amp; earth 4 x 1.5mm², 2 x 2.5mm², 1 x 4mm²</td>
<td>Terminal capacity</td>
<td>Live, neutral &amp; earth 3 x 2.5mm², 2 x 4mm², 1 x 6mm² (stranded)</td>
</tr>
</tbody>
</table>

**Physical**

- Ambient operating temperature: -5°C to +40°C (not to exceed an average of more than 25°C in any 24 hour period)
- IP rating: IP2X
- Max. installation altitude: 2000 metres
- Max. installation altitude: 2000 metres
- Max. installation altitude: 2000 metres
- Max. installation altitude: 2000 metres

**Output**

- Voltage rating: 2 x 5V d.c.
- Max current: 1A per socket
- Charging sockets: USB 2.0 type A
RJ45 Data Outlets

Standards and approvals
ISO/IEC 11801
EN 50173
TIA 568
EN 41003

Description
Suitable for use in all LJU6C, Euro and MK Modular frontplates, available in the Logic Plus range, Cat 5e and Cat 6 modules suitable for use in structured cabling distribution systems.

Installation
- Maximum cable length 90m.
- Cable bend radii, 40mm during installation, 20mm after installation.
- Maximum pull force 8.7kg.
- Do not over tighten cable ties.
- Do not unwind the twists in the wire pairs by more than 13mm max.

TIA wiring scheme colour codes:

<table>
<thead>
<tr>
<th>Pin No.</th>
<th>568A</th>
<th>568B</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>WHITE / green</td>
<td>WHITE / orange</td>
</tr>
<tr>
<td>2</td>
<td>GREEN / white</td>
<td>ORANGE / white</td>
</tr>
<tr>
<td>3</td>
<td>WHITE / orange</td>
<td>WHITE / green</td>
</tr>
<tr>
<td>4</td>
<td>BLUE / white</td>
<td>BLUE / white</td>
</tr>
<tr>
<td>5</td>
<td>WHITE / blue</td>
<td>WHITE / blue</td>
</tr>
<tr>
<td>6</td>
<td>ORANGE / white</td>
<td>GREEN / white</td>
</tr>
<tr>
<td>7</td>
<td>WHITE / brown</td>
<td>WHITE / brown</td>
</tr>
<tr>
<td>8</td>
<td>BROWN / white</td>
<td>BROWN / white</td>
</tr>
</tbody>
</table>

Euro and LJU6C modules are to be wired as follows:

Pair 1 – BLUE/white & WHITE/blue
Pair 2 – ORANGE/white & WHITE/orange
Pair 3 – GREEN/white & WHITE/green
Pair 4 – BROWN/white & WHITE/brown
Telephone, RJ11/12, BNC Data and Blank Modules

Standards and approvals
Telephone sockets KS820 and KS821 comply with the following:
BS 6312: 2.2
Data sockets KS801, BS 5733: 2010
(where applicable).
KS887 complies with FCC68 and EN 41003.

Technical specification

**Electrical**
- Cable types:
  - Telephone: CW1311, CW1293, CW1308, CW1316
  - RJ11/12: 1
  - BNC
  - 50 Ohms impedance cable — RG58, RG141, URM43, Belden 9907
- Frequency range: BNC connector: 0 to 4GHz
- Impedance: BNC Connector: 50, nominal
- Termination type: Telephone module — IDC, BNC module — Crimped connection

**Physical**
- Temperature range:
  - Ambient air: -20°C to +60°C
- IP rating:
  - IP2XD — KS820, KS821, KS801 and K5787
  - IP4X — K180, K188, K186 and K170
- Max. installation altitude: 2000 metres

Description
A range of telephone, data and blank modules to fit Euro and LJ6UC front plates. BNC Euro modules with a 500Ohm crimp connector suitable for use with RG58, URM43, URM76 and Belden 9907 type coaxial cables are also available.

Installation (Telephone socket modules)

**Product performance, systems compatibility**
Master Sockets: For use as the first socket outlet on a direct exchange. They contain the required surge protector (for line protection against electrical surges) and ringing capacitor.
Secondary Sockets: for use as extension sockets when connected on the same line as a Master Socket.

**Installation tools required IDC Connectors (telephone & RJ45 outlets)**
MK insertion tool List No. 400NAT.
Wire pull-out force: 10.5 Newtons when installed correctly.

**Wiring regulation restrictions**
Domestic Installations: The total REN (Ring Equivalent Number) value of all telephone equipment connected on a line must not exceed 4.

Features
- Meet all relevant BS, OFTEL and cabling standards
- Interchangeable modules clip into frontplates
- Front fixing facilitates easy exchange of modules
- Part of a complete range of products for telephone and data processing requirements
- Can be specified for all applications
- Data sockets
  - Latest specification for high performance systems
  - Made to stringent quality assurance procedures
  - Wide range of data connectors available

For information on TV Satellite and FM Modules see pages 451-453
Telephone, RJ11/12, BNC Data and Blank Modules

**Telephone Wiring Scheme**
1. GREEN / white
2. BLUE / white
3. ORANGE / white
4. WHITE / orange
5. WHITE / blue
6. WHITE / green

**Note:** Main wire colour is shown in capitals

**RJ11/12 Wiring Scheme**

<table>
<thead>
<tr>
<th>PIN NO.</th>
<th>STRIPPED COLOUR</th>
<th>WIRE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>WHITE / green</td>
<td>WHITE</td>
</tr>
<tr>
<td>2</td>
<td>WHITE / orange</td>
<td>BLACK</td>
</tr>
<tr>
<td>3</td>
<td>BLUE / white</td>
<td>RED</td>
</tr>
<tr>
<td>4</td>
<td>WHITE / blue</td>
<td>GREEN</td>
</tr>
<tr>
<td>5</td>
<td>ORANGE / white</td>
<td>YELLOW</td>
</tr>
<tr>
<td>6</td>
<td>GREEN / white</td>
<td>BLUE</td>
</tr>
</tbody>
</table>

**Note:** Main wire colour is shown in capitals
MK Modular Datacoms (Logic Plus)

Standards and approvals
Logic Plus Telephone and Data sockets comply with the following:
- Telephone sockets K420 and K421
  BS 6312: 2.2, OFTEL Approval NS/G/23/L/100005
- Data sockets K190 to K194, K501
  BS 5733: 2010 (where applicable)
- Data sockets K545
  Cat 5e performance to EIA/TIA TSB568, BS EN 50173, IEC11801

Description
A unique modular system in the distinctive Logic Plus style comprising a range of socket modules for Data and Telephone use, with 4 matching frontplates capable of accepting combinations of interchangeable modules. The ‘clip-in’ design provides a high degree of versatility, making the system ideal for use in all commercial and industrial applications.

Technical specification
**Electrical**
- Cable types:
  - Telephone CW1311, CW1293, CW1308, CW1316
  - RJ45: 20 to 26 AWG, 100 ohm Cat 5e UPT cable
- No. of cables per termination (Telephone & RJ45):
  - Telephone: 2
  - RJ45: 1

**Physical**
- Temperature range: Ambient air -20°C to +60°C
- IP rating: IP2XD
- Max. installation altitude: 2000 metres

Features
- Meet all relevant BS, OFTEL and cabling standards
- Interchangeable modules clip into frontplates
- Front fixing facilitates easy exchange of modules
- Part of a range of products for telephone and data processing requirements
- Telephone sockets and frontplates
  - Quick, simple and reliable IDC connectors
  - Can be specified for all applications
  - Fit in plaster depth boxes
- Data sockets and frontplates
  - Cat 5e specification performance
  - Made to stringent quality assurance procedures

RJ11 Wiring Scheme
<table>
<thead>
<tr>
<th>PIN</th>
<th>STRIPPED COLOUR</th>
<th>SOLID COLOUR</th>
</tr>
</thead>
<tbody>
<tr>
<td>NO.</td>
<td>WIRE</td>
<td>WIRE</td>
</tr>
<tr>
<td>1</td>
<td>WHITE / green</td>
<td>WHITE</td>
</tr>
<tr>
<td>2</td>
<td>WHITE / orange</td>
<td>BLACK</td>
</tr>
<tr>
<td>3</td>
<td>BLUE / white</td>
<td>RED</td>
</tr>
<tr>
<td>4</td>
<td>WHITE / blue</td>
<td>GREEN</td>
</tr>
<tr>
<td>5</td>
<td>ORANGE / white</td>
<td>YELLOW</td>
</tr>
<tr>
<td>6</td>
<td>GREEN / white</td>
<td>BLUE</td>
</tr>
</tbody>
</table>

Note: Main wire colour is shown in capitals
MK Modular Datacoms (Logic Plus)

**Installation (Data sockets)**

**RJ45 modules**
In order to maintain Category 5e performance, install cabling in accordance EIA/TIA or ISO General Cabling Standards.

**Installation (Telephone socket modules)**

**Product performance, systems compatibility**
Master Sockets: For use as the first socket outlet on a direct exchange. They contain the required surge protector (for line protection against electrical surges) and ringing capacitor.
Secondary Sockets: for use as extension sockets when connected on the same line as a Master Socket.

**Installation tools required IDC Connectors (telephone & RJ45 outlets)**
MK insertion tool List No. 400NAT.

Wire pull-out force: 10.5 Newtons when installed correctly.

**Wiring regulation restrictions**
Domestic Installations: The total REN (Ring Equivalent Number) value of all telephone equipment connected on a line must not exceed 4.

Industrial and commercial installations: MK telephone sockets are suitable in all situations after the PBX/PABX has been installed by a recognised installer. For key systems and other ‘special’ systems, the manufacturer’s instructions should be referred to.

**Safety information**
None of the above products should be installed into the same fixing or mounting boxes as mains rated equipment or cable.

**Cable management**
Logic Plus Modular Data and Telephone Sockets can be mounted in a variety of MK trunking systems.
MK Modular Datacoms (Decorative)

Standards and approvals
MK Telephone and Data sockets comply with the following:

- Telephone sockets K452 and K457
- BS 6312: 2.2, OFTEL Approval NS/G/23/L/100005
- Data sockets K290 to K452, K458
- BS 5733: 2010 (where applicable)
- Data sockets K455
- Cat 5e performance to EIA/TIA TSB568, BS EN 50173, IEC11801

Technical specification

<table>
<thead>
<tr>
<th>Electrical</th>
<th>Physical</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cable types:</td>
<td>Temperature range:</td>
</tr>
<tr>
<td>Telephone CW1311, CW1293, CW1308, CW1316</td>
<td>Ambient air -20°C to +60°C</td>
</tr>
<tr>
<td>RJ45: 20 to 26 AWG, 100 ohm Cat 5e UPT cable</td>
<td>IP rating:</td>
</tr>
<tr>
<td>No. of cables per termination (Telephone &amp; RJ45):</td>
<td>IP2XD</td>
</tr>
<tr>
<td>Telephone: 2</td>
<td>Max. installation altitude: 2000 metres</td>
</tr>
<tr>
<td>RJ45: 1</td>
<td></td>
</tr>
</tbody>
</table>

Description
A unique modular system in the Alloy and Albany Plus styles comprising a range of socket modules for data and telephone use with frontplates capable of accepting combinations of interchangeable modules. Modules clip into mounting frames which, when attached to frontplates, provide a high degree of versatility, making the system ideal for use in all commercial and industrial applications.

Features
- Meet all relevant BS, OFTEL and cabling standards
- Part of a range of products for telephone and data processing requirements
- Interchangeable modules clip into grid frame which attaches to frontplate
- Quick, simple and reliable IDC connectors
- Can be specified for all applications
- Cat 5e specification performance
- Made to stringent quality assurance procedures

Data sockets and frontplates

Telephone sockets and frontplates

RJ11 Wiring Scheme

<table>
<thead>
<tr>
<th>PIN NO.</th>
<th>STRIPPED COLOUR</th>
<th>SOLID COLOUR</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>WHITE / green</td>
<td>WHITE</td>
</tr>
<tr>
<td>2</td>
<td>WHITE / orange</td>
<td>BLACK</td>
</tr>
<tr>
<td>3</td>
<td>BLUE / white</td>
<td>RED</td>
</tr>
<tr>
<td>4</td>
<td>WHITE / blue</td>
<td>GREEN</td>
</tr>
<tr>
<td>5</td>
<td>ORANGE / white</td>
<td>YELLOW</td>
</tr>
<tr>
<td>6</td>
<td>GREEN / white</td>
<td>BLUE</td>
</tr>
</tbody>
</table>

Note: Main wire colour is shown in capitals
MK Modular Datacoms (Decorative)

**Installation (Data sockets)**

**RJ45 modules**
In order to maintain Category 5e performance, install cabling in accordance EIA/TIA or ISO General Cabling Standards.

**Installation (Telephone socket modules)**

**Product performance, systems compatibility**
Master Sockets: For use as the first socket outlet on a direct exchange. They contain the required surge protector (for line protection against electrical surges) and ringing capacitor.
Secondary Sockets: for use as extension sockets when connected on the same line as a Master Socket.

**Installation tools required IDC Connectors (telephone & RJ45 outlets)**
MK insertion tool List No. 400NAT.
Wire pull-out force: 10.5 Newtons when installed correctly.

**Wiring regulation restrictions**
Domestic installations: The total REN (Ring Equivalent Number) value of all telephone equipment connected on a line must not exceed 4.
Industrial and commercial installations: MK telephone sockets are suitable in all situations after the PBX/PABX has been installed by a recognised installer. For key systems and other ‘special’ systems, the manufacturer’s instructions should be referred to.

**Safety information**
None of the above products should be installed into the same fixing or mounting boxes as mains rated equipment or cable.

**Cable management**
MK Modular Data and Telephone Sockets can be mounted in a variety of MK trunking systems.
Telephone, TV/FM and Satellite Socket Outlets

Standards and approvals

Telephone and TV sockets comply with the following:

**Telephone sockets K422 and K427**

BS 6312: 2.2, BS 5733: 2010 (where applicable) and OFTEL Approval NS/G/23/L/100005.

K4817: BS 5733: 2010 (where applicable) and FCC68.

**TV sockets**


**Satellite TV sockets**

BS 5733: 2010 (where applicable).

Description

A part of the very wide range of products to meet the latest technical requirements and the standards applicable to modern technology in the installation of telephone and television equipment. The master and secondary telephone sockets K422 and K427 comply with relevant OFTEL approvals for direct and indirect connections between a termination point of a public telecommunications system and any piece of approved telecommunications apparatus. For applications requiring twin or dual telephone outlets, refer to the Modular Data section, pages 54-57.

Telephone and TV sockets fit into plaster depth boxes (except for RJ11).

The F-type Satellite Socket may be used for connection of CATV, MATV and satellite TV installations.

Technical specification

**Electrical**

- Telephone sockets, cable specification: CW1311, CW1293, CW1308, CW1316
- No. of cables per termination: 2
- Re-usability: >9 reterminations (should not be reterminated with smaller diameter wire)
- TV sockets:
  - Cable specification: CT100 or equivalent
  - Any standard low-loss TV co-axial cable
  - Outside 4-8mm diameter, inner conductor 0.5-2mm diameter
  - Insertion loss: insertion loss data available on request
- 1 Prise satellite socket (K3525), cable specification:
  - Co-axial cable: inner core diameter – 0.5-1.2mm
  - RJ11 (K4817), Cable specification:
  - Capable of taking 0.08 to 0.65mm² solid or stranded cable

**Physical**

- Ambient air: -20°C to +60°C
- IP rating:
  - IP2XD
- Max. installation altitude: 2000 metres

Features

- Single screw termination on TV outlets
- Protected, fully enclosed PCBs
- Meet all relevant BS requirements
- Quick, simple and reliable terminal connection
- IDC connectors on telephone outlets
- Part of a complete range of products for telephone, television and data processing requirements
- Angled connector on TV outlets
- Sockets fit in plaster depth boxes (except K4817)
Telephone, TV/FM and Satellite Socket Outlets

Installation (Telephone sockets)

Product performance, systems compatibility
Master Sockets: for use as the first socket outlet on a direct exchange or PABX line. They contain surge protector (for line protection against electrical surges) and ringing capacitor.
Secondary Sockets: For use as extension sockets when connected on the same line as a Master Socket.

Installation tools required
MK IDC insertion tool List No. 400NAT (not supplied with product).

Wiring regulation restrictions
Domestic installations: Any number of MK sockets may be installed thereafter, with a total REN (Ring Equivalent Number) value of all telephone equipment connected on a line not exceeding 4.

Telephone Wiring Scheme
1 GREEN / white
2 BLUE / white
3 ORANGE / white
4 WHITE / orange
5 WHITE / blue
6 WHITE / green

Note: Main wire colour is shown in capitals
Digital TV and Telephone Outlets (Logic Plus and Modular Datacoms)

Installation (TV sockets)

Product performance, systems compatibility
Isolated Outlets are intended for use where safety isolation (rated at 2000V ac) is required to provide protection against faults occurring within any mains powered product used on different parts of the distribution system. They are not suitable for use in systems where DC signals are passed through the socket, (e.g. where masthead/headend equipment is controlled by receiver/ decoder equipment).

Diplexer Outlets are used in distribution systems where both TV and FM band signals are combined on a single aerial downlead. The filtering in the diplexer separates the appropriate signals and feeds them through to the relevant output connection port.

Cable Routing and Use of Cable Clamp
Sharp bends in the cable must be avoided during installation. The single TV/ FM socket is fitted with a cable clamp that can be fixed on either side of the termination position to facilitate this.

When tightening the screening braid clamps ensure that the cable is firmly gripped and that the inner insulation is not squashed flat beyond a slight oval shape.

Safety Information
TV outlets or modules must not be installed in the same enclosure as equipment rated in excess of 50V, (e.g. mains rated 13A sockets or switches).

Method of installation of TV and FM aerial connection by using MK co-axial socket outlet and only one downlead.

Conventional distribution system for TV and FM signals using a single aerial downlead.

1 The signals from the TV and FM aerials and the satellite dish are combined together using two products. The first combines the TV and FM signals and the second adds the Sky signal to the TV/FM signal and provides a DC control path to power the LNB unit on the satellite dish. (These products are not supplied by MK).

The single aerial down lead feeds into the triplexer (black lines in wiring diagram).

2 The separated satellite signal is then fed to the decoder. The decoded satellite signal is then fed into the VCR along with the TV signal from the Triplexer. The output signal from the VCR then feeds into the TV and also back to the single outlet and onto the distribution amplifier (black lines in wiring diagram).

3 The single cable back-feed then feeds back to the input of a multi way distribution amplifier, (typically located in the loft or garage) (red lines in wiring diagram).

4 Each individual output from the distribution amplifier is then fed to the individual rooms in the house to a standard TV (single or diplexer) outlet to which the TV/VCR and/or Hi-Fi can be connected (blue lines in wiring diagram).
Digital TV, Radio and Telephone Outlets

Standards and approvals

All Logic Plus TV Outlets comply with BS 5733 and BS EN 50083 where applicable.

Also IEC 169-2, BS EN 60169-24 and BS 6312 Part 2

Modular products are Euro compatible.

Technical specification

<table>
<thead>
<tr>
<th>Single Outlets</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>TV/FM IEC Male or Female</td>
<td>DC-950MHz</td>
</tr>
<tr>
<td>SAT-F Type</td>
<td>DC-1.75GHz</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Diplexer and Triplexer products</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>TV</td>
<td></td>
</tr>
<tr>
<td>Diplexer: 5-65MHz</td>
<td>470-862MHz</td>
</tr>
<tr>
<td>Triplexer: 5-65MHz</td>
<td>470-862MHz</td>
</tr>
<tr>
<td>FM</td>
<td></td>
</tr>
<tr>
<td>Diplexer: 87.5-108MHz</td>
<td></td>
</tr>
<tr>
<td>Triplexer: 87.5-108MHz</td>
<td></td>
</tr>
<tr>
<td>SAT</td>
<td></td>
</tr>
<tr>
<td>Diplexer: n/a</td>
<td></td>
</tr>
<tr>
<td>Triplexer: 950-2300MHz</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>TV/FM/DAB/SAT products for digital radio</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>TV</td>
<td></td>
</tr>
<tr>
<td>Diplexer: 5-65MHz</td>
<td>470-862MHz</td>
</tr>
<tr>
<td>Triplexer: 5-65MHz</td>
<td>470-862MHz</td>
</tr>
<tr>
<td>FM/DAB</td>
<td></td>
</tr>
<tr>
<td>Diplexer: 87.5-230MHz</td>
<td></td>
</tr>
<tr>
<td>Triplexer: 87.5-230MHz</td>
<td></td>
</tr>
<tr>
<td>SAT or SAT1</td>
<td></td>
</tr>
<tr>
<td>Diplexer: n/a</td>
<td></td>
</tr>
<tr>
<td>Triplexer: 950-2300MHz</td>
<td></td>
</tr>
<tr>
<td>SAT2</td>
<td></td>
</tr>
<tr>
<td>Diplexer: n/a</td>
<td></td>
</tr>
<tr>
<td>Triplexer: 5-2300MHz</td>
<td></td>
</tr>
</tbody>
</table>

**Description**

There are two ranges of diplexer and triplexer products, an established range suitable for VHF TV, and a range suitable for digital radio (DAB).

Diplexer modules are for connecting to a single co-axial aerial down lead carrying combined TV and FM signals. The filtering in the diplexer splits out the appropriate signal and feeds it to the relevant output connection. A DC control path is provided in the TV signal path through the diplexer.

Triplexer modules are for connecting to a single co-axial aerial down lead carrying combined TV, FM and SAT signals. The filtering in the triplexer splits out the appropriate signal and feeds it to the relevant output connection. A DC control path is provided in the SAT signal path through the triplexer.

The quad outlet contains a triplexer together with a separate satellite output, for use with Sky+, or more complex installations.

Telephone secondary outlets are provided on some products for connection of telephone or for interactive TV applications.

**Features**

- Non isolated
- Fully screened
- Earth terminal provided on TV modules
- Selected products with supplementary TV outlet for back-feed for further distribution
- Selected products with BT secondary outlets for interactive TV applications

**Cable management**

Logic Plus TV outlets can be mounted in a variety of MK trunking systems.

**BOX TYPES**

<table>
<thead>
<tr>
<th></th>
<th>Flush (for Extra wiring space)</th>
<th>Surface Insulated</th>
<th>Surface Metal</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 gang</td>
<td>861ZIC 866ZIC</td>
<td>K2140WHI</td>
<td>K2211ALM/K2213ALM</td>
</tr>
<tr>
<td>2 gang</td>
<td>862ZIC 886ZIC</td>
<td>K2142WHI</td>
<td>K2212ALM/K2214ALM</td>
</tr>
</tbody>
</table>

Minimum recommended box depth 32mm

Note: Edge/Insignia mounted modular products require 45mm box
Digital TV/FM and Telephone Outlets (Logic Plus and Modular Datacoms)

**Installation**
- When installing the TV co-axial cable ensure that all cable bends are smooth so that the inner insulation is not crushed or squashed, otherwise the TV signal quality may be affected.
- Not suitable for loop-in loop-out installations.
- Use CT100 cable (or equivalent).

**Telephone Outlet Connection**
Carefully strip 50mm of the telephone cable outer sheath to expose the inner insulated conductors. Using the insertion tool supplied, (MK List no. 400NAT) carefully push each lead into the appropriate IDC terminals according to the wiring colour code stated in the telephone Wiring Scheme diagram.

- Pins 1 and 6 are frequently unused, 4 wire cable may be used in these installations.
- If an existing installation uses a different wiring colour code system, this should be retained on any new or extended installation.
- Additional secondary extension outlets should be wired in parallel with the existing installation via the IDC terminals, (i.e. pin 1 to pin1, pin 2 to pin 2, etc).
- In the event that the earth terminal is required to be used, the installer must ensure that a suitable earth conductor is present to connect to the earth terminal. (In the case of 2G products both TV modules should be earthed).
- In the event that the earth terminal is required to be used, the installer must ensure that a suitable earth conductor is present to connect to the earth terminal. (In the case of 2G products both TV modules should be earthed).

**Telephone Wiring Scheme**
1 GREEN / white
2 BLUE / white
3 ORANGE / white
4 WHITE / orange
5 WHITE / blue
6 WHITE / green

**Note:** Main wire colour is shown in capitals
Logic Plus Combination Plates 2/4-gang Stacked Combination Plate

4 Gang Plate Description
The 4-gang Stacked Combination Plate carries 2x 2-gang 13A DP switched sockets, plus a Quad TV, FM/DAB, Satellite outlet, single TV (IEC Female) and an additional Telephone socket. Additionally, there is a 4-module Euro area capable of accommodating any additional telephone or media products from the Euro modular range.

2 Gang Plate Description
The 2-gang Stacked Combination Plate carries a 2-gang 13A DP switched sockets and an additional 4-module Euro area capable of accommodating any additional telephone or media products from the Euro modular range.

Technical specification

Frontplate
The frontplate complies with the mechanical strength requirements of BS 5733 2010.

Switched socket specification
Compliant to BS 1363 Part 2: 1995

Electrical
Voltage rating 250V a.c.
Current rating 13 Amp per socket outlet

Terminal capacity
Live, Neutral & Earth
3 x 2.5mm²
3 x 4mm²
2 x 6mm² (standard)

Physical
Ambient operating temperature:
-5°C to +40°C (not to exceed an average of more than 25°C in any 24 hour period)
IP rating:
IP2XD
Max. installation altitude 2000 metres

Technical specification

Frontplate
The frontplate complies with the mechanical strength requirements of BS 5733 2010.

Switched socket specification
Compliant to BS 1363 Part 2: 1995

Electrical
Voltage rating 250V a.c.
Current rating 13 Amp per socket outlet

Terminal capacity
Live, Neutral & Earth
3 x 2.5mm²
3 x 4mm²
2 x 6mm² (standard)

Physical
Ambient operating temperature:
-5°C to +40°C (not to exceed an average of more than 25°C in any 24 hour period)
IP rating:
IP2XD
Max. installation altitude 2000 metres

Note
- Pre-configured back boxes available shall be used with these plates. These are 853ZiC, which is 35mm deep, and for greater wiring space 854ZiC, which is 47mm deep.
- These back boxes should always be used to ensure alignment of the fixing screws is correct and proper segmentation between mains and low voltage products is maintained.
- Mains operated products and extra low voltage modules must not be installed within the same front plate aperture. Refers to BS 7671 IEE Wiring regulations for detail.
- When removing the fixing screws and front plate from an installation to gain access to low voltage modules, please be aware that there will also be access to the mains supply.

Note
- Pre-configured back boxes available shall be used with these plates. These are 857ZiC, which is 35mm deep, and for greater wiring space 858ZiC, which is 47mm deep.
- These back boxes should always be used to ensure alignment of the fixing screws is correct and proper segmentation between mains and low voltage products is maintained.
- Mains operated products and extra low voltage modules must not be installed within the same front plate aperture. Refers to BS 7671 IEE Wiring regulations for detail.
- When removing the fixing screws and front plate from an installation to gain access to low voltage modules, please be aware that there will also be access to the mains supply.