



MK Wiring Devices

USB Charging Solutions

In 2013 MK Electric was one of the first UK manufacturers to introduce a range of award winning USB charging modules, and this technology has been integrated into our market leading twin socket. Recent product developments mean our Logic Plus™ and MK Dimensions wiring devices now fit a 25mm backbox.

Fixed installation USB chargers remove the need for continual PAT testing of adaptors and take away the risk of unapproved chargers being used, which can lead to damage of devices.

MK Electric USB charging solutions are also designed with inherent safety features such as overload protection and automatic disconnect on the modular product when the cable is removed.

In addition, users can benefit from a fixed installation USB charger by requiring just one charging cable to be used for multiple devices. The MK Electric solution is also designed to provide optimal charging performance, enhancing the user experience by delivering fast charging solutions compatible with a wide range of devices.

Airports, hotels, universities, schools, retail outlets and any other environment that regularly host visitors with a mobile device, would benefit from the USB charging solutions which MK Electric can provide.

USB Integrated Socket – features and benefits

Double Pole Switching

Neutral makes first, breaks last for total safety

3mm Minimum Switch Contact Gap

Eliminates possibility of circuit forming when in the off position

Two 5V Outlets With A Combined Total Of 2A Charging

To provide optimal charging capacity 2A can be drawn fully from one port when one device is charging or split between ports when devices are charging simultaneously

Backed Out Terminal Screws Kept Captive Within The Terminal Housing

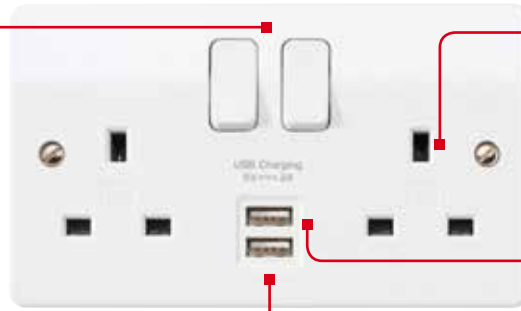
Aids, and makes installation faster

In Line Terminals*

Allows wire to be cut stripped to the same length for faster and easier installation

Upward Facing Terminals With Funnel Entrance

Making wiring and installation easier.



3-Pin “Child Resistant Shutter System”

Designed to inhibit access to the electricity supply, unless all 3 pins of a standard British 13A plug are in position

Vertically Stacked Central USB Ports

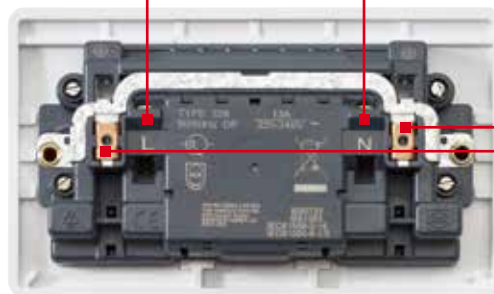
Access to USB ports is not restricted when using virtually any standard 13A plug, including moulded plugs

Dynamic Device Recognition

By detecting the nuances between the differing charging configurations tablet manufacturers use, the product can react accordingly for optimal charging efficiency

Electrically Protected Against An Overload Or Short Circuit

Prevents damage to the socket and provides safety to the user in the event of an overload or short circuit conditions



Dual Earth Terminals

For high integrity earthing

*Excludes K2744WHI, MH2744WHIC, K2744GRA and MH2744BLKC

Thinner profile - Logic Plus™ and MK Dimensions products are now suitable for wiring into a 25mm wall box



USB Integrated Socket – FAQ

What charging capacity does the socket provide?

The MK Electric USB Integrated socket provides a total of 2A charging capacity. This means that if only one device is connected, the total rated output current of 2A is available from either port. In the event that both ports are connected, the total rated current will be divided between the two ports. This prevents overload and excessive currents being provided to connectors, cables and devices which could generate a safety issue.

MK's Dynamic Device Recognition detects differing charging configurations and requirements and reacts accordingly, for example if two devices were charging simultaneously, more current will be diverted to the device with the least charge and the biggest demand.

What is Dynamic Device Recognition?

Tablet manufacturers have each adopted differing configurations for charging their devices. The MK Electric USB Integrated socket has been designed such that it understands and recognises this nuance and is designed to react accordingly, rather than be aligned to one specific charging configuration. This ensures we provide the optimum charging compatibility across a broad range of devices.

Can I charge two different devices from two different manufacturers at the same time?

The MK Electric USB Integrated socket is designed such that the dynamic device recognition is unique to each USB port which means that different manufacturers devices can be charged simultaneously without any impairment to the other. As well as different manufacturers, each port can also charge different types of devices at the same time i.e. the ports are not allocated to specific devices such as tablets or phones.

How can I be sure my device will be compatible?

MK Electric has undertaken extensive compatibility testing and found that numerous devices from various manufacturers are compatible.

Which standards do your products conform to?

The MK Electric USB charging socket holds the CE mark as it conforms to all the safety certification and approvals applicable for a 13A socket including BS 5733 and relevant parts of BS 1363-2 and IEC 61558-2-16. MK Electric prides itself on delivering the safest solution to our customers, which is why we also have conformity to the relevant directives applicable to electronic products and which should be mandatory for this type of product. This includes IEC 61000-6-1 and IEC 61000-6-3 which covers Electromagnetic compatibility (EMC).

What back box depth will I need?

Logic Plus™ and MK Dimensions now fit into a 25mm back box. All other products will fit into a 35mm back box, with the exception of the Edge™ range which requires a 47mm back box. For extra wiring space we would recommend the use of a 47mm back box for Aspect products, in line with current practice. We will also be offering a 10mm moulded pattress to allow retrofit into a shallower box.

Why are your USB ports vertically stacked in the centre of the socket?

The MK Electric USB charging socket has its USB ports aligned under the rockers to ensure the least disruption to the 13A plug space. When larger transformer type plugs are used on the 13A outlets, there is the risk that they will cover the USB ports and make them inaccessible if they are located elsewhere on the socket. Locating them in the way that we do allows for all four outlets to be used simultaneously.

MK USB Charging Module

TECHNICAL SPECIFICATION	DESCRIPTION
USB CHARGING MODULE	2A, 5V d.c. USB Charging Module for portable electronic devices
ELECTRICAL SPECIFICATION	DESCRIPTION
VOLTAGE RATING	220-240Vac / 50-60Hz
CURRENT RATING	2A
TERMINAL CAPACITY	3 x 2.5mm ²
PHYSICAL SPECIFICATION	DESCRIPTION
DIMENSIONS	50 x 50mm
AMBIENT OPERATING TEMPERATURE	0°C to 45°C
MAXIMUM INSTALLATION ALTITUDE	2000 metres



Product selector

Logic Plus™

PART NUMBER	FINISH
K2744WHI	White
K2744GRA	Graphite

Euro Modules

PART NUMBER	FINISH
K5837WHI	White
K5837BLK	Black
K5837SCW	Chalk White
K5837SNS	Natural Stone
K5837SBP	Beach Pebble

MK Dimensions

PART NUMBER	FINISH
MH24344WHIC	White functional module
MH24344BLKC	Black functional module
MHFP040BSSW	Brushed Stainless Steel frontplate with white trim
MHFP040SSTW	Satin Steel frontplate with white trim
MHFP040SBRW	Satin Brass frontplate with white trim
MHFP040BRZW	Bronze frontplate with white trim
MHFP040WHI	White frontplate
MHFP040LTS	Light Silver frontplate
MHFP040DKS	Dark Silver frontplate
MHFP040CHM	Champagne frontplate
MHFP040BSSB	Brushed Stainless Steel frontplate with black trim
MHFP040SSTB	Satin Steel frontplate with black trim
MHFP040SBRB	Satin Brass frontplate with black trim
MHFP040BRZB	Bronze frontplate with black trim

Metalclad Plus™ (Without back box)

PART NUMBER	FINISH
K2943D5ALM	Aluminium
K3043D5WHI	White

Albany Plus™

PART NUMBER	FINISH
K2943BSS	Brushed Stainless Steel
K2943BRC	Brushed Chrome
K2943SAG	Satin Gold
K2943PCR	Polished Chrome

Elements

PART NUMBER	FINISH
K34343SCW	Synthetic Chalk White
K34343SNS	Synthetic Natural Stone
K34343SBP	Synthetic Beach Pebble
K34343MSP	Metallic Satin Platinum
K34343MBB	Metallic Brushed Bronze
K34343MST	Metallic Satin Titanium
K34343MCI	Metallic Cast Iron
K34343MBS	Metallic Brushed Steel
K34343GIW	Glass Effect Ice White
K34343GPJ	Glass Effect Polished Jade
K34343GPO	Glass Effect Polished Onyx
K34343GPS	Glass Effect Polished Stone
K34343NBO	Natural British Oak
K34343NDW	Natural Dark Wenge
K34343NCH	Natural Cream Hide
K34343NDH	Natural Dark Hide

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Patress

PART NUMBER	FINISH
K1000WHI	White - 2G 10mm patress
K1000CLR	Clear - 2G 10mm patress
K1000BLK	Black - 2G 10mm patress

Edge™

PART NUMBER	FINISH
K14343BSSB	Brushed Stainless Steel
K14343BSSW	Brushed Stainless Steel
K14343LBSB	Lacquered Brushed Steel
K14343LBSW	Lacquered Brushed Steel
K14343BRCB	Brushed Chrome
K14343BRCW	Brushed Chrome
K14343POCB	Polished Chrome
K14343POCW	Polished Chrome
K14343SAGB	Satin Gold
K14343SAGW	Satin Gold
K14343PBRB	Polished Brass
K14343PBRW	Polished Brass
K14343WHIW	Porcelain White
K14343LIVW	Lustrous Ivory
K14343LBKB	Lustrous Black
K14343TIRB	Textured Iron
K14343DBZB	Desert Bronze
K14343ABSB	Antique Brass
K14343TCOB	Textured Copper

Aspect

PART NUMBER	FINISH
K24343BSSB	Brushed Stainless Steel
K24343BSSW	Brushed Stainless Steel
K24343LBSB	Lacquered Brushed Steel
K24343LBSW	Lacquered Brushed Steel
K24343BRCB	Brushed Chrome
K24343BRCW	Brushed Chrome
K24343POCB	Polished Chrome
K24343POCW	Polished Chrome
K24343SAGB	Satin Gold
K24343SAGW	Satin Gold
K24343PBRB	Polished Brass
K24343PBRW	Polished Brass
K24343WHIW	Porcelain White
K24343LIVW	Lustrous Ivory
K24343LBKB	Lustrous Black
K24343TIRB	Textured Iron
K24343DBZB	Desert Bronze
K24343ABSB	Antique Brass
K24343TCOB	Textured Copper



by Honeywell