



MK SENTRY

18th Edition Solutions: Surge Protection and RCD Selection

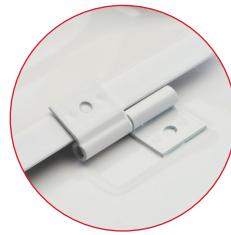
With the introduction of the 18th Edition of the IET Wiring Regulations BS 7671:2018, **Regulation 443** Protection against transient overvoltages of atmospheric origin or due to switching is now required where the consequence may result in affects to human life, public services and cultural heritage, commercial or industrial activity, or a large number of individuals. **Regulation 443.4** For other installations, a risk assessment should be carried out; if no risk assessment is completed overvoltage (surge) protection must be provided.

MK's Sentry range now includes a selection of pre-populated Consumer Units featuring Surge Protection Devices (SPDs) which meet this need, as well as individual SPDs for those designing and building bespoke boards.

In addition, it is the responsibility of the designer/installer to select appropriate RCD types for each specific system, **Regulation 531.3.3** Types of RCD states Different types of RCDs exist, depending on their behaviour in presence of DC components and frequencies.

MK's Sentry range of RCD devices now includes Type A RCD devices, alongside Type AC RCD devices, giving installers a choice of products to meet the requirements of residential applications.

MK Sentry Consumer Unit Features and Benefits



NEW: Top Hinged Door

Prevents door being left open after use leading to a possible fire risk

NEW: Continual Earthing

Only need to earth once via the base

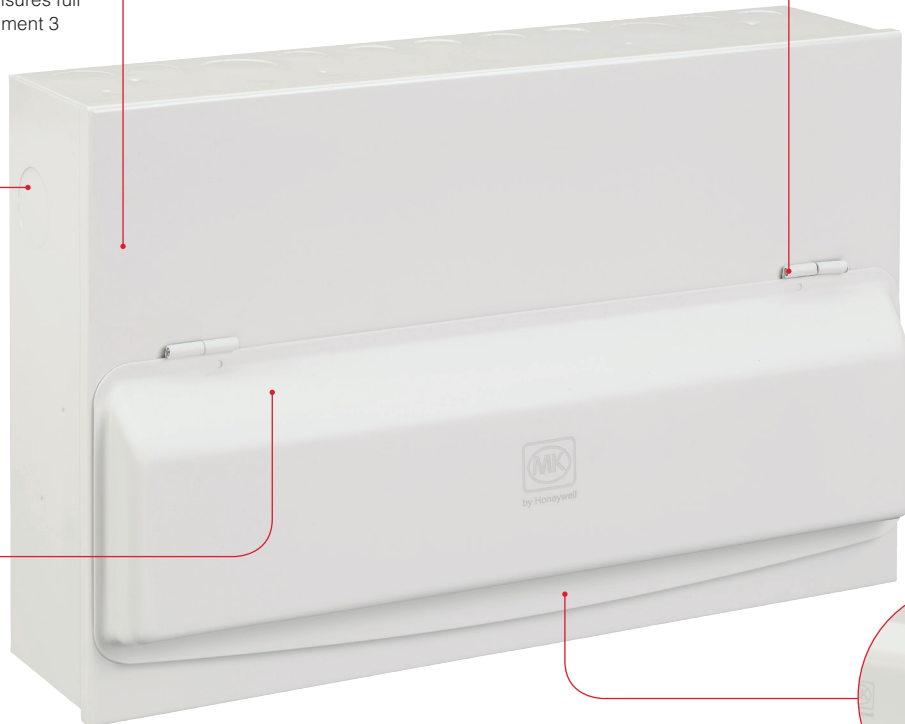
NEW: Manufactured from Zintec Steel

Corrosion resistant material which ensures full compliance with 17th Edition Amendment 3



NEW: Multiple extra large knock outs

Aids and eases installation



NEW: MK White Colour

Modernised aesthetics for visible installations
Design service available for bespoke requests



Curved Stylish Design

Blends into the environment

Type A Residual Current Device (RCD)



Type A RCDs also suitable for type AC applications

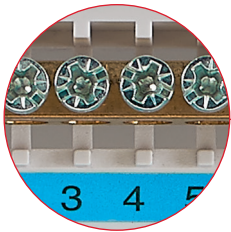
Detection of AC fault currents, and DC components in fault current

Suitable for resistive capacitive induction loads

Applicable to loads without any electronic components such as immersion heaters, electric showers, ovens/hobs with resistive heating elements

Suitable for single phase loads with electronic components

Applicable for single phase invertors, induction hobs, power supplies for class 2 equipment, class 1 IT and multimedia equipment and appliances such as washing machines that are not frequency controlled e.g. DC or universal motor



Backed out and captive combi-head screws

Allows simple and speedy installation



Fixing holes

Tripod fixing to cope with uneven surfaces



NEW: 10mm Increased Height

Additional wiring space

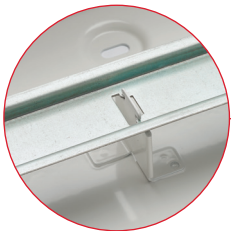


Easily removable Din Rail

Simplifying and easing first fix

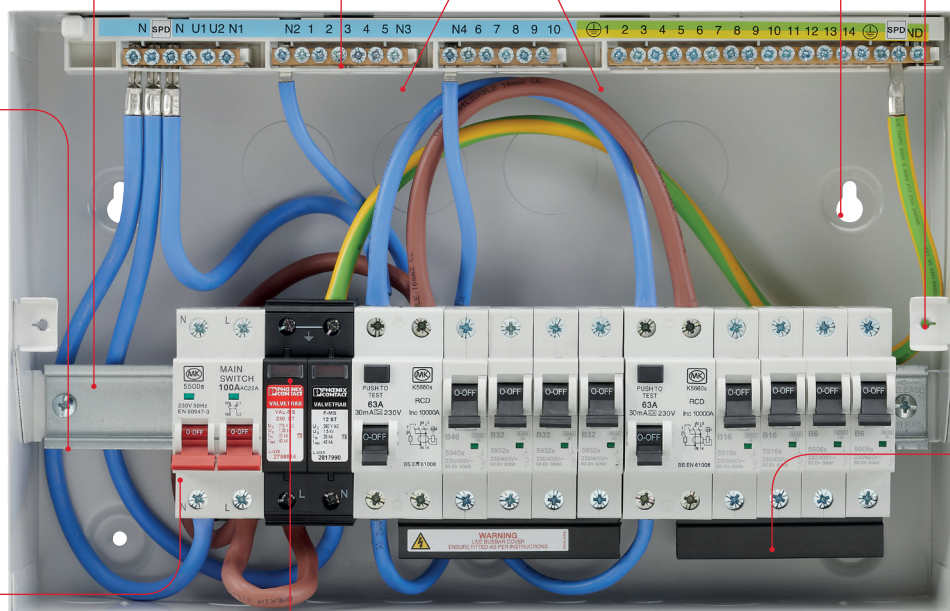
Colour coded earth and neutral terminal locked

At top of unit for ease of wiring



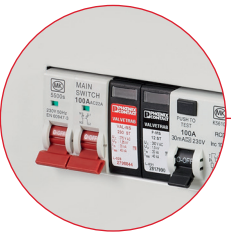
NEW: Supporting Din Rail "T" Bar

Additional support to prevent bowing and twisting which has been raised for improved cable routing



Floating busbar system

For maximum installation flexibility including acceptance of control modules



Offset In-come

Provides additional wiring space making mains input connections easier

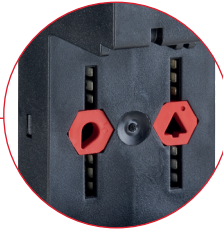


Visual alert on cartridges

RED = OVERLOAD

Surge Protection Device (SPD)

SDP compatibility tested with MK Sentry boards and devices








Line and Neutral locator pins

Easy installation, locator pins avoid incorrect positioning



Replacement cartridges available

Simple replacement should a cartridge be employed and enter fault mode

PART NUMBER	DESCRIPTION		MINIMUM ORDER QUANTITY
MK SENTRY, METAL ENCLOSURE, POPULATED BOARDS WITH SURGE PROTECTION DEVICES			
	KS8678SMET	21W SWITCH, 2 X 100A TYPE A RCDS, 12 X MCBS & SURGE	1
	KS8666SMET	16W SWITCH, 2 X 100A TYPE A RCDS, 8 X MCBS & SURGE	1
	KS7666SMET-A	16W SWITCH, 2 X 63A TYPE A RCDS, 8 MCBS & SURGE	1
SURGE PROTECTION DEVICES AND COMPONENTS			
	KS230MS	SURGE PROTECTION DEVICE	1
	KS12ST	NEUTRAL REPLACEMENT CARTRIDGE	1
	KS230ST	LINE REPLACEMENT CARTRIDGE	1
MK SENTRY, METAL ENCLOSURE, POPULATED BOARDS WITH TYPE A RCDS			
	K7664SMET-A	12W SWITCH, 2 X 63A TYPE A RCDS & 6 X MCBS	1
	K7666SMET-A	16W SWITCH, 2 X 63A TYPE A RCDS & 10 X MCBS	1
	K7665SMET-A	16W SWITCH, 2 X 63A TYPE A RCDS & 8 X MCBS	1
	K8664SMET	12W SWITCH, 2 X 100A TYPE A RCDS & 6 X MCBS	1
	K8666SMET	16W SWITCH, 2 X 100A TYPE A RCDS & 10 X MCBS	1
	K8665SMET	16W SWITCH, 2 X 100A TYPE A RCDS & 8 X MCBS	1
	K8678SMET	21W SWITCH, 2 X 100A TYPE A RCDS & 12 X MCBS	1
TYPE A RCD DEVICES			
	K5640S	40A 30mA 230V DOUBLE POLE TYPE A 2 MODULE	1
	K5660S	63A 30mA 230V DOUBLE POLE TYPE A 2 MODULE	1
	K6216S	16A 10mA 230V DOUBLE POLE TYPE A 2 MODULE	1
	K6630S	32A 30mA 230V DOUBLE POLE TYPE A 2 MODULE	1
	K6716S	16A 30mA 230V DOUBLE POLE TYPE A 2 MODULE	1
	K56100S	100A 30mA 230V, DOUBLE POLE, TYPE A, 2 MODULE	1
	K5680S	80A 30mA 230V, DOUBLE POLE, TYPE A, 2 MODULE	1
ACCESSORIES			
	K5569S	18TH ED CABLE KIT FOR SURGE & TWIN RCD	1

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