



the mechatronics people

K RCD sockets

The fastest range of RCD sockets

The K switched sockets are the world's first RCD sockets to incorporate piezo actuated technology, providing faster response time, which means greater protection. Attractively styled, these sockets are available in single and twin gangs in white plastic or metal. These RCD switched sockets replace standard sockets to provide permanent RCD protection for use in commercial, domestic and industrial environments.

- Permanent electrical protection
- Faster tripping speeds for increased protection
- Easy to use two button operation
- Resistant to nuisance tripping
- Simply replaces standard socket
- Double pole contact-break
- IP40 rating
- Independently tested and approved to latest standards
- State of the art patented piezo ceramic actuation
- Integral set and indicator button
- Customer specific colours and logo's available
- Disconnects live and neutral connection on detection of earth leakage
- Clear indicator window
- Indicator directly driven by the contacts
- Choice of 10mA or 30mA rated trip current



Product Size

Twin: L = 146 mm W = 86mm D = 14.4mm
Single: L = 86mm W 86mm D = 31mm

Product Weight

Twin white: 248g
Single white: 153g
Twin metal: 368g
Single metal: 585g

Product Response

Test Button Depressed	Product Trips
Loss of Supply Neutral Active	Product Trips
Loss of Supply Neutral Passive	Provides RCD Protection
Loss of Supply Earth	Provides RCD Protection
Reversed Polarity (Supply)	Provides RCD Protection
Earth Leakage Within Range	Product Trips

Environmental rating

IP 40

Compliances's

BS7288 (SRCD standard)
BS1363 (Sockets)
EN 61009 (Clause 9.21 Pulsating DC Sensitivity)
BS EN 61543 (Where applicable) EMC standard specifically for household RCD'S

Materials

Flame retardant casing. All large parts are identified with re-cycling symbols

Specification K RCD sockets

PBT K RCD Protected Sockets

Available in active and passive mechanisms, 10 or 30mA trip rating in white plastic or epoxy coated metal finish

Switch module mechanism

Manually reset, dual button operation. Double Pole 3mm Contact air gap in accordance with BS7288

Contact Status Indication

Red flag incorporated in reset button

Contact Pressure

100grms each contact, incorporated into the module design

Operating Voltage/Frequency

Rated 230V + 15% -10%
(Will act as RCD @ 168v RMS 50Hz +/- 5%.)

Load Current

Rated 13A resistive. 3A Inductive

RCD Trip Current Rating

30mA nominal
AC (rms) Typical 22mA
Pulsating DC $\leq 48\text{mA}$ with pulsating DC fault current superimposed with 6mA DC fault current with a current delay angle of 0°

Pulsating DC Sensitivity, E.M.C.

Current Delay Angle	0°	10.5mA (Min)	42mA (Max)
	90°	7.5mA (Min)	42mA (Max)
	135°	3.3mA (Min)	42mA (Max)

Trip Speed

40mS (10mS typical)

Resistance to unwanted tripping

Will not trip with current ring wave 0.5ms/100kHz 25A

Resistance to impulse voltages

1.2/50ms 4Kv between live and earth
1.2/50ms 2Kv between neutral and earth

Operating Temperature

-5°C to 40°C

Storage Temperature

-25°C to 65°C

Relative Humidity

50% Max @ 40oC (Non Condensing)

Altitude

Max 2000m for normal operation

External Magnetic fields

Not exceeding 5 times the Earth's field in any direction for normal operation

Circuit Fault Breaking capacity

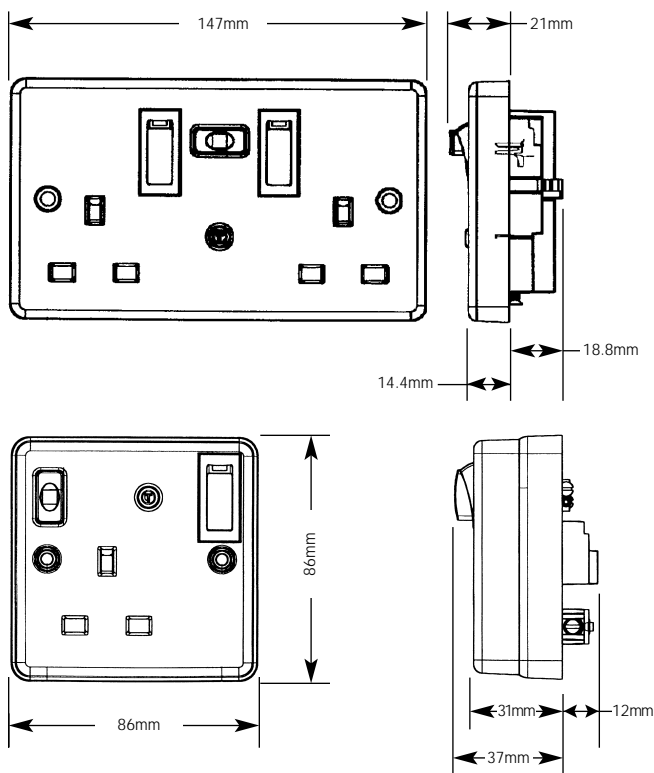
1500A

Earth Fault Breaking capacity

250A

Cable Capacity

Minimum 1mm² solid
Max 2 x 4mm² flexible or 3x2.5mm² solid
Twin Earth terminals on twin, one on single



Full engineering, application & product design support available