



# Technical Data

## Switched Fused 13A Outdoor Connection Unit

### Brief product description:

IP rated accessories designed to protect against water and dust ingress in the most arduous of conditions

### Product Images



WP53

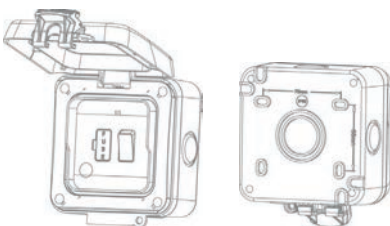
### Features:

- IP66 Rated, Weather & dust protection:  
High level of protection against ingress from water jets & dust, the durable seals will maintain integrity over the product's life
- Angled colour coded terminals with captive screws
- Ergonomic front cover/Lid:  
Bright LED power indicator visible through see-through cover  
Hinged cover has simple press to open or press to close operation  
Lockable cover
- Multiple gland entry positions:  
5 versatile entry options with M25 capability with an easy push out blank plug design  
One cut out entry option on rear
- Robust construction:  
Polycarbonate housing  
High impact resistance  
Long lasting, will not crack or fade

### Technical Specifications

Standard(s)	BS1363-4
Rating	3,120 Watts Max, 13A 240V ~
Terminal Capacity	3 x 2.5mm <sup>2</sup> , 2 x 4.0mm <sup>2</sup> & 1 x 6.0mm <sup>2</sup>
IP Rating	IP66
RoHS Directive	No
WEEE Directive	No
Fixings, wall plugs and sealant not included	

### Line Diagrams



# Switched Fused 13A Outdoor Connection Unit

## Packaging Information

Cat No.	Description	Packaging Type			Pack Quantity			Barcode		
		Product	Inner Box	Outer Box	Each	Inner Box	Outer Box	Individual	Inner Box	Outer Box
WP53	Switched FCU	Printed Box	/	Printed Outer Box	1	/	10	5050765022330	/	5050765022361

## Weights & Dimensions

Cat No.	Description	Dimension (W x L x H) cm			Weight (g)			CMB (m³)
		Product	Inner Box	Outer Box	Each	Inner Box	Outer Box	Outer Box
WP53	Switched FCU	12 x 9 x 16.5	/	40 x 26 x 14	xx	/	3750	xxx

## Installation Information

### Safety Warning

Before use please read carefully and use in accordance with these safety wiring instructions.

Before commencing any electrical work ensure the supply **is switched off at the mains**. Either by switching off the consumer unit or by removing the appropriate fuse.

Wiring should be in accordance with the latest edition of the IEE regulations (BS 7671).

### Wire Identification – Twin & Earth Cable

EARTH = Green/Yellow Sleaving

NEUTRAL = Black (pre Apr 04) / Blue (after Apr 04)

LIVE = Red (pre Apr 04) / Brown (after Apr 04)

To prevent fire hazard always use cable of the correct rating, size and type for the application.

Note - As from 1st April 2004 new colour codes for hard wire installations was introduced.



**Technical Helpline: 0845 194 7584**  
If in doubt consult a competent electrician.

### Product Application & Features

The Weatherproof FCU comprises a robust polycarbonate enclosure with durable integrated Fused Connection Unit. It provides a convenient & safe wall-mounted power point for fixed outdoor equipment. The enclosure is IP66 rated in use, which means that when the front cover is securely closed, the sealed construction provides a very high level of protection against the ingress of both water & dust.

### Safety Instructions – Important

#### Please read 'CHANGES TO BUILDING REGULATIONS'

1. An outdoor location should be chosen ensuring adequate access to a mains supply circuit. The circuit **MUST** be protected by an appropriate fuse, circuit breaker or RCD (Residual Current Device) in accordance with current IEE wiring regulations.
2. Where conduit is used for cable runs, water condensation **MUST** be prevented from collecting inside the unit & conduit. Drain holes **MUST** be drilled out (see Installation Instructions)
3. If metal conduit is used, earth continuity across the conduit must be maintained using appropriate connections (not supplied). An earth terminal in the Rear Box is provided as required. An earth connection from supply circuit **MUST** be made to earth terminal of FCU.
4. Where outdoor cable runs occur, ensure cable recommended for outdoor installations is used. In general, rubber insulated cable & plastic M20 cable glands can be used. Alternatively standard flat PVC twin & earth mains cable inside 20mm plastic or metal conduit may be used. Where necessary, SWA (Steel Wire Armoured) cable with metal cable glands should be used.

The outdoor use of unprotected flat PVC insulated cable is **NOT** recommended.

5. Unused cable entries **MUST** have Blank Plugs fitted.

### Installation Instructions

#### Ensure Safety Instructions Have Been Read First

1 gang Rear Boxes have multiple cable entries on sides & one rear knockout cable entry. Drain hole positions are provided in relation to conduit positions as shown. Note position of earth terminal.

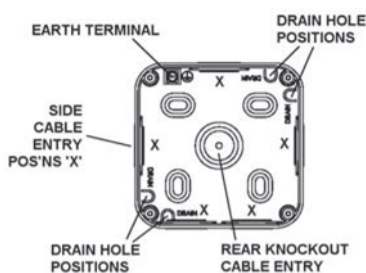
#### NOTE

1 gang has 4 drain hole & 5 cable entry positions.

1. The unit should be mounted on a clean, rigid vertical surface suitable to accept screw type fixings. Surface should be reasonably flat as unevenness could cause product damage or affect operation.

2. Remove fixing screws & remove Front assembly from Rear Box. (If front assembly is fitted to base)

4. Mount the Rear Box using No.8 screws in all four, or at least two diagonal positions on fixing centres shown. The fixing holes are slotted to enable some rotation adjustment if required. Fit supplied Bungs over all used fixing screw positions to seal aperture recesses.



3. For cable entry, decide if conduit is being used & entry positions.

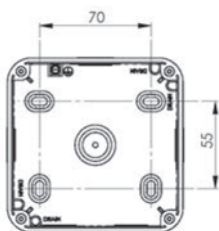
For side, top or rear entry the lowermost drain hole position **MUST** be drilled out using a 5mm drill. **ONLY ONE** drain hole position must be drilled.

For bottom entry a drain hole **MUST NOT** be drilled in Rear Box, but a drain hole **MUST** be drilled at lowermost point of conduit run.

For rear entry, cut or drill out rear knock-out. For extra sealing protection, a channel around knock-out is provided to accept a bead of sealant (not supplied) when fixing to mounting surface.

#### NOTE

The drilling out of a drain hole or removing rear knock-out will reduce the IP rating of the product.



# Switched Fused 13A Outdoor Connection Unit

## Installation Information

5. Make cable entry into Rear Box as required. Only remove Blank Plugs for positions used. Ensure adequate excess lengths of cable for connection to FCU. Install & seal all cable glands & conduit to manufacturer's instructions. Ensure the Gasket Seal is properly fitted over front edge of Rear Box

6. Offer up Front Assembly to Rear Box to determine final lengths of cables & cut to suit. Strip outer insulation as required & then trim insulation on individual wires 10-12mm to expose conductor ends.

7. Connect the wires to the correct FCU rear terminals. The FCU terminals are colour coded for easier reference:-

**Connect LIVE wire to BROWN LIVE (L) terminal**

**Connect NEUTRAL wire to BLUE NEUTRAL (N) terminal**

**Connect EARTH wire to GREEN/YELLOW (E) terminal**

**Note** - the colours of the wires will be dependent on the type of cable used. See Wire Identification section for reference.

8. All earth connections MUST be made & continuity maintained. Note - the FCU has two linked earth terminals but only one needs to be used for this installation.

9. Where any earth conductor is a bare wire, it MUST be sleeved with green/Yellow sleeving.

10. Ensure all terminal screws are tight & all wires are neatly routed & not unduly stretched or pinched.

11. After wiring FCU, refit Front Assembly onto Rear Box using fixing screws – DO NOT OVERTIGHTEN. Ensure the Gasket Seal is properly fitted over front edge of Rear Box before tightening screws.

12. Fit Screw Covers to complete installation.

13. Switch power back on, check FCU is working. The product is now ready to use.

14. During life of product, any cleaning should only be carried out with a damp cloth using a mild solution of detergent & warm water. DO NOT USE solvent based cleaners as these may cause damage. It is recommended to ONLY clean the external surfaces.

15. To replace the fuse, first switch off power at the mains. Using a flat blade screwdriver, carefully lever open the fuse carrier. Pull the carrier out and replace the fuse.

**Note** - the fuse carrier cannot be fully removed from the product. Fit a new fuse (to BS1362) and push the carrier home so that it sits flush with the surface of the faceplate. If the new fuse fails again, check the connected appliance as it may be faulty, or the total load of 13 Amps, 3120 Watts has been exceeded.

**If in doubt consult a qualified electrician.**

### Changes To Building Regulations – Important!

As from 1 January 2005, any electrical work done in domestic, fixed wiring installations in England and Wales, will have to follow new rules & changes to the Building Regulations Part P. These rules have been introduced to help reduce the number of deaths, injuries and fires caused by faulty installations.

The installation work may be carried out by anyone providing it is in accordance with the Regulation standards.

Certain electrical work (non-notifiable or minor work) may be carried out without having to use a registered electrician or notify Local Authority Building Control, such as: -

- replacing any electrical fitting (for example, socket outlets, light fittings, control switches)
- adding fused spurs, sockets or lights to an existing circuit (but not in a kitchen, bathroom or outdoors)
- any repair or maintenance work

For minor work done by a non-qualified electrician, it is highly recommended it is checked by a qualified electrician to ensure it is safe.

For all other work (notifiable or major work) a Building Regulations application is required & it must be checked to make sure it is safe.

This may be done by either an electrician who is part of a competent person self-certification scheme, or by notifying the Local Authority Building Control Department who will make required arrangements.

An application must be made to the Local Authority before commencing work such as: -

- adding a new circuit
- adding/altering any circuit in a room with water (kitchen, bathroom, etc)
- adding/altering any circuit outdoors (outdoor sockets, lights, etc)

Where work is done by a qualified electrician, they will be responsible for checking the work, & Local Authority does not need notification.

Where a qualified electrician or Local Authority is responsible for checking the work, they will provide a certificate or notice to confirm that the installation is tested & safe to use.

### IT IS RECOMMENDED TO USE A QUALIFIED ELECTRICIAN

If there is any doubt whether electrical work needs notification of the Local Authority, they should be contacted first for advice.