Installation instructions,

Meter Cabinet Consumer Units
Metal Cased
Flexible Split Load Units
Consumer Unit 230 / 240V a.c. BSEN61439-

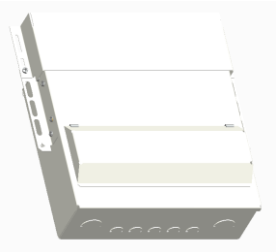
IMPORTANT INFORMATION

This unit should be installed by a qualified competent person in accordance with all relevant legislation and regulations including building regulations and wiring regulations BS7671. If in doubt contact a qualified competent person.

- **Turn off all power supplying this equipment before working on or inside the equipment.**
- **Always use a properly rated volt-sensing device to confirm the power is off.**
- **Replace all devices, doors and covers before turning on the power to this equipment.**
- **To avoid ingress of swarf and similar material, always remove gland plates to allow cutting/slotting for cable entries.**

Failure to follow these instructions could result in serious injury or death.

DO NOT USE POWER TOOL SCREWDRIVERS ON ELECTRICAL CONNECTIONS



Introduction

Each flexible unit is designed to cover a range of split load configurations simply by sliding the RCD into the appropriate position on the DIN rail.

The consumer unit must be de-rated as follows: - Max. 100% rating, continuous load (in excess of 1 hour) 90% of incomer rating. A diversity factor of 90% should be applied to all RCDs.

Enclosure Mounting

- This product is suitable for mounting within a meter cabinet only and is rated at IP2XC.
- Remove appropriate KO's, cover and outer cable shroud from the enclosure. Note, the top gland plate can be removed for ease of KO removal.
- The unit must be mounted with the gland plate facing upwards.
- Mount the unit into its installation position, Both 'L' brackets provided must be fitted in positions 'a' OR 'b', see Fig 1.1. When installed the base of both 'L' brackets should sit flush against the enclosure back wall in order to support the unit. Assess which 'L' bracket position (a OR b) best suits the installation and which bracket fixing holes should be used (the depth of the bracket fixing can be adjusted using the various bracket holes). Remove the unit from the installation.
- Remove the appropriate 'L' bracket fixing blanks from positions 'a' OR 'b' (4 per bracket) by drilling or knocking out from the inside of the unit. The baseplate should be removed to aid the 'L' bracket installation.
- Use the following fasteners provided to attach each 'L' bracket to the box: 4 x M5 screws, 4 x M5 nuts and 8 x M5 serrated washers, See Fig. 1.1.
- Mount the unit into its installation position. Secure the wing fixings first using M6 fixings. Both 'L' brackets should then be screw-fixed with M6 size screws (not supplied) to the cabinet back wall. See Fig. 1.2.
- Check the unit is securely mounted.

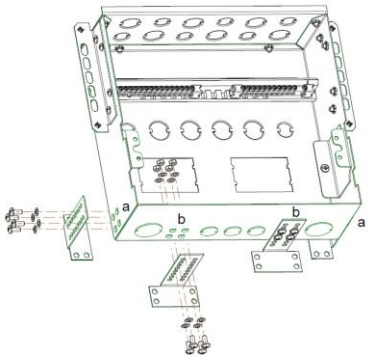


Fig. 1.1

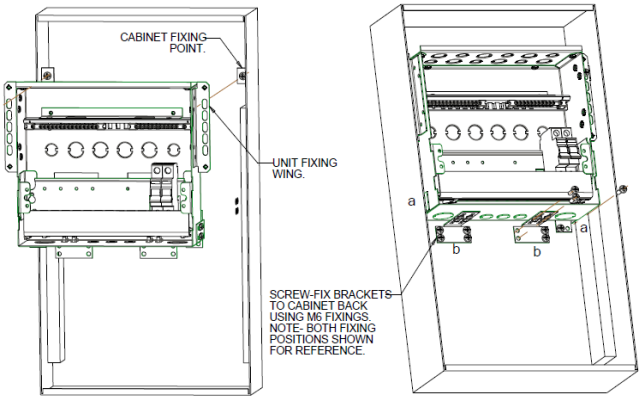


Fig. 1.2

Fit Circuit Breakers / RCBOs.

Only NHX range MCBs and NHXSBS/WRCBL range RCBOs must be used within Wylex AM3 skeleton range flexible consumer units.

Fasten all devices directly onto the DIN rail.

Cut busbar

Each unit is supplied with 2 or 3 busbars, which should be cut to suit the required number of outgoing ways on the isolator and the RCDs. NOTE – BUSBARS MUST BE CUT FROM THE LEFT HAND SIDE, see Fig.2 for orientation. Unused ways should be insulated using the yellow busbar insulation supplied with the unit.

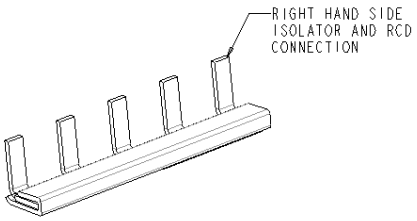


Fig. 2

Electrium Sales Limited, Walkmill Lane, Cannock, WS11 0XE
Tel: 01543 455000 Fax: 01543 455001

Waste electrical products should not be disposed of with household waste.
Please recycle where waste disposal facilities exist.
Check with your retailer, wholesaler or local authority for recycling advice.

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Install busbars
Undo the bottom terminal screws on all MCBs / RCBOs, and the live terminal of the isolator and/or RCD. Insert the busbars into the terminal cages. The right hand side pin of one busbar is to be inserted into the main switch to MCBs & the right hand side pin of the other busbars from RCD to MCBs. Ensure the busbars are fully inserted above any cable links and then tighten all terminal screws adequately (see diagram). For Dual RCD units, both busbars connect to their appropriate RCD.

Check the tightness of all screw connections, including factory made connections (see table).

Device	Max. Cable Capacity	Recommended tightening torque
Main Switch / RCD	50mm²	2.3Nm
MCB	25mm²	2.3Nm
Standard RCBO	Outgoing connection - 16mm²	2.0Nm
	Busbar connection	2.5Nm
Miniature RCBO	Outgoing connection - 16mm²	2.0Nm
	Busbar connection	2.5Nm
Earth & neutral terminals	16mm²	1.7Nm

Use No.2 Pozidrive bit

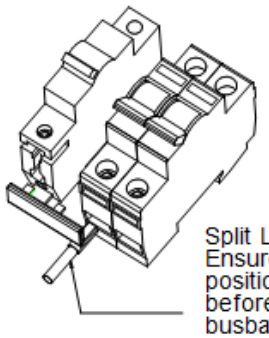




Illustration of a typical busbar fitting arrangement for a High Integrity unit

Circuit identification for split load units
Cut the circuit identification labels to suit the number of outgoing ways on both of the isolating devices and apply the labels to the front surface of the front cover.

Replacement of Covers

Fit the front cover. The outer cable shroud should be fitted after the front cover is fitted. The shroud is screwed directly to the unit fixing wings. The shroud can be adjusted vertically to ensure all cables entering the top gland plate are shrouded. See Fig. 3.1. and 3.2.

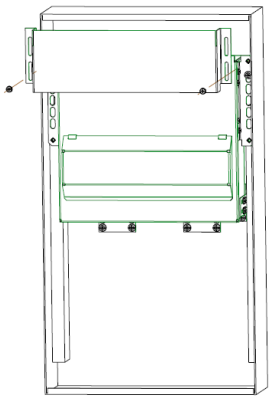


Fig 3.1

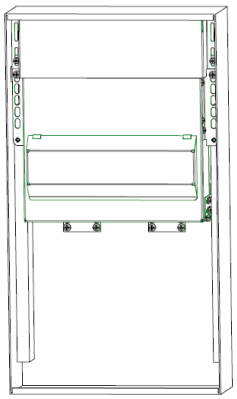


Fig 3.2

Blanking unused ways
Blanking plates should be fitted to cover any spare modular ways. Blanking plates are available if required.

Testing and commissioning
Before the consumer unit and the installation of which it forms a part are commissioned they must be tested, in accordance with the requirements of the current edition of Requirements for Electrical Installations (BS 7671) published jointly by the British Standards Institute and the Institution of Engineering and Technology.

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