





Now included

- Consumer Units Pre-fitted with Surge Protection
- Round Knockout Consumer Units
- Rear Grommets
 - AFDDs

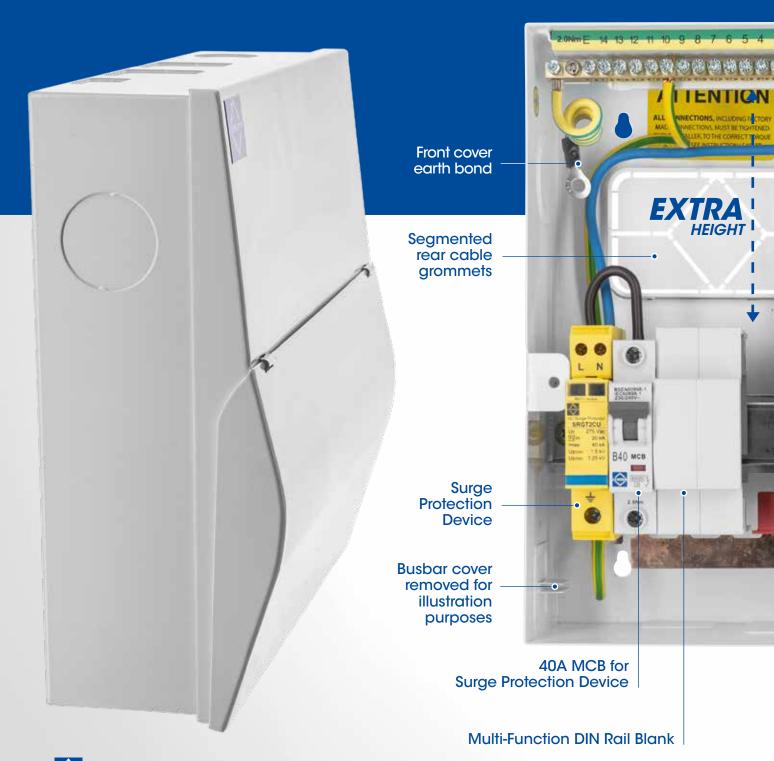
PRO CONSUMER UNITS & CIRCUIT PROTECTION

A comprehensive Consumer Unit & Circuit Protection range for residential installations

PRO

AN ATTRACTIVE RANGE OF EASY-TO-INSTALL CONSUMER UNITS

The latest enhancement to the Lewden range. PRO offers a stylish, ergonomic, and non-obtrusive consumer unit design, paired with a comprehensive range of circuit protection devices and accessories to meet the needs of every installation.





Circular knockouts for mains tails glands



Rectangular or circular knockouts Combined AFDD & RCBO with switched neutral

Mains tails clamp

Stylish design

- The wrap around front cover provides a clean and un-obtrusive finish.
- With extra wide 180° opening, it offers superior visibility of circuit protection devices, even when the consumer unit is mounted low down, and provides the perfect position to affix installation labelling.

Solid Construction

- Non-combustible steel enclosure finished in RAL9003 Signal white semi-gloss.
- Retained cover screws to prevent loss.
- Available with rectangular or circular knockouts for outgoing circuits on top and bottom faces.
- Rectangular knockouts on top and bottom faces to match popular mini trunking sizes.
- Circular knockouts on four sides provide flexibility for meter tails entry position.

Enclosure height

 Extra enclosure height provides generous wiring space for outgoing cabling during installation, as well as for future additions.

Devices

- A full and complete range of circuit protection devices including compact RCBOs with switched neutral, cater for all design arrangements.
- Type 2 surge protection can also easily be incorporated in any installation.
- Combined AFDD RCBO with switched neutral provides additional protection in a space saving single module.

Accessories

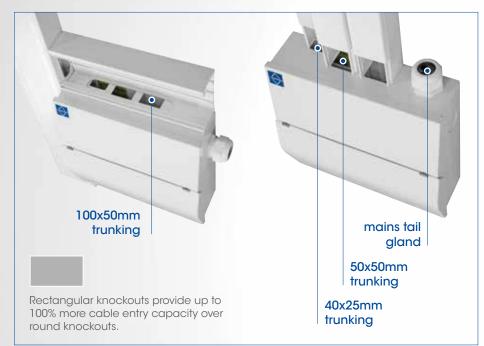
- Blind cable grommets for use in rectangular knockouts prevent cable chaffing and maintain IP4X ingress protection.
- An optional meter tails clamp provides additional strain relief to meter tails.
- A cover key lock option is also available on request, for installations requiring restricted access to the operation of devices in service.
- Full din rail mounting blanks offer a high level of protection against access to live parts, and cannot be removed whilst the front cover is fitted.
- Segmented rear grommets available in two knockout sizes to protect cables and limit the opening size to suit the number of cables.

The PRO Consumer units range is now available with the option of rectangular or circular knockouts across all enclosure sizes.

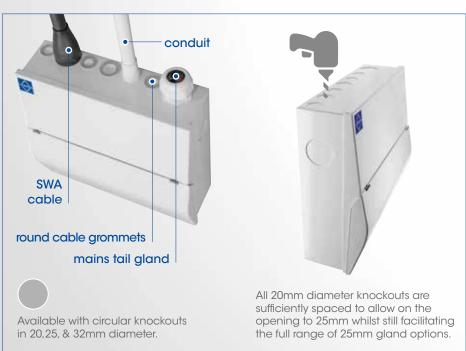


Scan to view the PRO Enclosure Technical Knockouts Guide

Rectangular knockouts are ideal for use with standard mini and maxi trunking sizes and provide maximum cable entry capacity. The rectangular knockout design with its unique pierceable cable grommet accessory provides the optimum solution for maintaining the IP rating for final circuit cable entering the enclosure. The new circular knockouts range provides complete flexibility for installing round cable glands, conduits, cable grommets and for terminating SWA final circuit cables.









IET Wiring Regulations BS7671 Amendment 2: 2022

Amendment 2 of BS7671 has introduced some fundamental changes which impact on the design and installation of a residential consumer unit.

A summary of these changes is detailed below.

Arc Fault detection devices (AFDD) Regulation 421.1.7

Within certain types of premises, protection against arcing faults is now a mandatory requirement for final circuits rated up to 32A supplying socket outlets.

For all other premises, the use of AFDDs on final circuits rated up to 32A supplying socket outlets is recommended.

Surge Protection Devices (SPD): Section 443

Significant changes to 443.5 have resulted in the calculated risk assessment method for determining the requirement for SPD protection being deleted. Surge protection against indirect lightning strokes is now mandatory where consequences could result in injury or loss of life, loss of safety services, or financial or data loss. In all other cases, protection against indirect lightning strokes shall always be provided, unless the owner of the installation declares that it is not required due to any loss being accepted and tolerable.

Residual Current Devices (RCDs): Section 531.3.2

A new clause 531.3.2 (ii) reinforces the use of RCBOs in residential premises as a specific consideration for limiting the risk of unwanted tripping in final circuits.

Types of RCD: Regulation 531.3.3

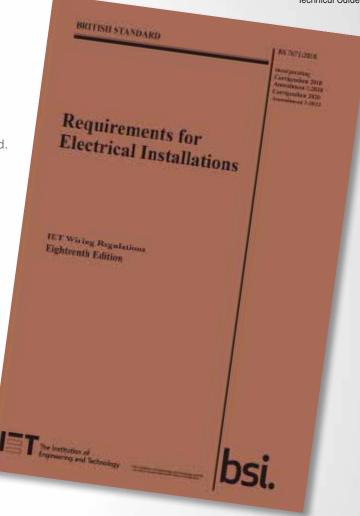
Type AC RCDs are now only permitted for use on circuits serving fixed equipment where it is known that the load current cannot generate any dc component, for example electric heating appliances or simple filament lighting.

RCD testing: Section 643

Amendments to clauses 643.7 & 643.8 have simplified the requirements for testing RCDs within an installation irrespective (no capital I) of RCD type (excluding time delayed RCDs), testing is now only required to be conducted

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Scan to view the complete Lewden Amendment 2
Technical Guide



using an alternating test current (AC) at rated residual operating current (1 $I\Delta n$).

For a more in-depth review, see the Lewden guide to Amd 2 and its impact upon the design and installation of residential consumer units.

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ARC FAULT DETECTION DEVICES

Electrical fires continue to be a significant issue within UK Installations. The Department for Communities and Local Government; Fire statistics 2017/18, identifies over 17,000 domestic fires within the UK, with approximately 12% starting within the electrical distribution system and up to 23% caused by faulty appliances and leads.

Since the 1980s, the use of MCBs to provide overcurrent protection and RCDs to provide residual current protection have reduced the risk and consequences of these types of electrical fires.

The introduction of Arc Fault Detection Devices (AFDDs) now offers an even more advanced level of protection in an installation, capable of identifying low level hazardous arcing faults that MCBs, RCDs and SPDs are not designed to detect or protect against.

AFDDs can also mitigate the risk fire caused by faults within the whole electrical Installation, both within the fixed wiring and the cabling of equipment connected to it.

The Lewden P4 series of combined AFDD & RCBO provides the highest degree of protection, safeguarding final circuits against the effects of:

- over current
- residual current
- arcing faults
- over voltage
- over voltage protection

AFDD

How does the AFDD work?

The integral AFDD uses microprocessor -based technology to continuously monitor the electrical circuit, identifying unintentional arcs caused by broken or damaged cables or poor connections. AFDD's can differentiate between "dangerous arcing" and "normal arcing" caused by the normal operation of equipment such as vacuum cleaners drills and electrical appliances and will disconnect the supply when identifying arcing faults.





Arc Fault Detection Devices

Key Features

The P4 Combined AFDD RCBO is designed for integration within the Lewden range of distribution boards and is fully interchangeable with the Lewden range of 6kA single module MCBs and RCBOs

- Available in current ratings of 6-40A, incorporated within a single module width.
- The device combines a microprocessor based AFDD with a 1P+ Switched Neutral RCBO.
- Incorporating a 30mA type A RCD and a 6kA MCB.
- Suitable for use on TN-S, TN-C-S & TT network systems.
- The switched Neutral pole makes the device suitable as a means of double pole isolation, and is particularly appropriate for installations with TT Earthing Systems where it is necessary to disconnect all live conductors to achieve safe isolation of individual circuits (BS7671:2018 Regulation 462).

Fault identification

Following an electrical fault in the load circuit the P4 device will trip. Upon re-closing, the LED will flash in sequence to signify the reason for the last break of circuit.

Quality approved

To ensure commitment to safety and quality, the Lewden P4 Series Combined AFDD & RCBO has been independently laboratory tested and certified by Intertek, and bears the European safety 'S Mark'.



The S mark is a voluntary certification scheme demonstrating that the product continually meets all relevant technical safety requirements, verified by regular inspections of the manufacturing facility by Intertek.



Scan to view the P4 Combined AFDD RCBO Technical Guide



What causes Arc Faults?

Unintentional arcing faults can occur due to several reasons, ranging from poor installation or accidental damage to cabling and equipment, to deterioration of the cable over time due to external factors. These faults can occur within the fixed cabling installation, or on portable equipment connected to the fixed wiring installation. Electrical arcing faults may be caused by (but not limited to):











- 1. Trapped damaged or crushed cables
- 2. Cable damage during installation or ongoing usage
- 3. Damage to wire insulation
- 4. Rodent damage
- 5. Loose connections



PRO RCBO Based Solution

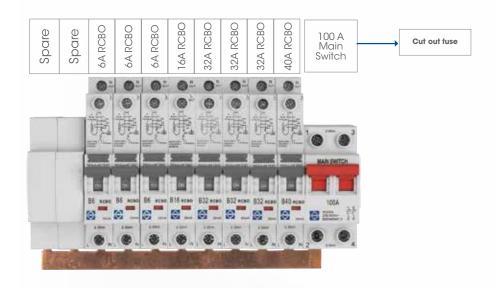
RCBO based solutions represent the best approach in providing maximum flexibility, division and control over final circuits, totally fulfilling the requirements of the wiring regulations in terms of providing ongoing diversity, upstream overload protection, and limiting the risk of nuisance tripping.

Our range of RCBO devices are available in various formats incorporating switched or unswitched neutral, compact height and combined AFDD.

| Consumer | Minimized | Diversity | Upstream Cut Out Fuse Compatibility | | | |
|----------------------------|---------------|-------------|-------------------------------------|----------|----------|--|
| Unit Type | inconvenience | Factor Free | 63A | 80A | 100A | |
| RCBO Board | Ø | Ø | Ø | Ø | Ø | |
| 63A Incomer RCCB Board | 8 | 8 | Ø | 8 | 8 | |
| 80A Incomer RCCB Board | 8 | 8 | Ø | ⊘ | 8 | |
| 100A Incomer RCCB Board | 8 | 8 | Ø | Ø | Ø | |



Utilising a consumer unit comprising a 100A rated main switch, and individual RCBOs on the outgoing circuits is considered the best approach to provide residual current and overload fault protection to each outgoing circuit as required by BS7671. Consideration to spare ways and future additions are automatically compensated for. Furthermore, by distributing load equipment across a greater number of individual RCBO circuits, this greatly assists in reducing the possibility of nuisance tripping, eliminating inconvenience caused by loss of supply to multiple circuits in the event of a residual current fault. With this method, the main switch and distribution bus bar are each rated to 100A, this being the maximum permissible cut out fuse rating installed by the supply authority to domestic properties.





RCBO Based Solution Incorporating Compact RCBOs/AFDD RCBOs and Surge Protection

1 RCBO Consumer Units

Incorporating a 100A DP Main Switch and busbar system ensures compatibility with DNO fuse ratings up to 100A. (BS7671 536.4 Overcurrent protection of RCCBs / AFDD RCBOs and Main Switches by upstream OCPD's).

2 Type A RCBOs as standard

Designed for use with load equipment that features electronic components (BS7671 531.3.3 Types of RCD).

3 Sub-division of circuits

RCBOs / AFDD RCBOs minimize the incovenience in the event of a fault and limit the risk of unwanted tripping by separating final circuits (BS7671 531.3.2 Unwanted tripping).

4 Using Individual RCBOs and AFDD RCBOs

Provides for optimum division of final circuits and minimizes inconvenience in the event of a fault (BS7671 314.1 (i) & (ii) Division of Installation).

5 Increased wiring space

Compact RCBOs maximise wiring room, making the installation quicker and neater, providing for a safer installation. (BS7671 132.12 Accessibility of electrical equipment).

6 Ease of testing

Compact RCBOs with double pole switching incorporate side by side output terminals for ease of testing and periodic inspection.

7 Faster to commission

Neutral pole switched RCBOs negate the need to disconnect the neutral lead during insulation resistance testing, speeding up the commissioning process.

8 Double pole isolation

Compact RCBOs and AFDD RCBOs incorporate a switched neutral which provides for safe isolation of individual circuits, and double pole isolation as required in TT systems and EV charging circuits.

(BS7671 537 - Isolation and Switching)

PRO RCBO Based Solution



A comprehensive consumer unit range comprising a 100A DP main switch with overload and residual current protection provided on each individual final circuit by RCBOs. Distributing final circuits across individual RCBOs provides the best approach to fully meeting the requirements of BS7671.

- Supplied with 100A rated Mains Switch and distribution bus bar.
- Overcurrent and 30mA earth leakage fault protection combined in one device.
- Class A residual current protection as standard.
- 6kA Short circuit breaking capacity. Energy limiting class 3.
- B or C curve overcurrent trip options.
- Fully interchangeable switched and un-switched neutral pole RCBO options.
- Ratings from 6A to 50A.



RCBO Consumer Units with Surge Protection

- Configured with 100A DP Main Switch
- Type 2 Surge Protection Device Pre-installed & wired
- Arranged with 1 x Neutral & 1 x Earth bar

| Knockout Arrangement | Part Number | Useable Ways | Enclosure Size (Modules) | Dimensional Drawings |
|-------------------------|-------------|--------------|-----------------------------|----------------------|
| | PRO-MX04M | 2 Ways + 1* | 5 | PRO1 |
| | PRO-MX08MS | 5 Ways | 9 | PRO2 |
| | PRO-MX10MS | 7 Ways | 11 | PRO3 |
| | PRO-MX12MS | 9 Ways | 13 | PRO4 |
| | PRO-MX16MS | 13 Ways | 17 | PRO5 |
| | PRO-MX21MS | 18 Ways | 22 | PRO6 |
| | PRO-R04M | 2 Ways + 1* | 5 | PRO1 |
| | PRO-R08MS | 5 Ways | 9 | PRO2 |
| \bigcirc | PRO-R10MS | 7 Ways | 11 | PRO3 |
| \bigcup | PRO-R12MS | 9 Ways | 13 | PRO4 |
| | PRO-R16MS | 13 Ways | 17 | PRO5 |
| | PRO-R21MS | 18 Ways | 22 | PRO6 |

Please note models MX04M & R04M do not feature pre-intergrated Surge Protection.

* +1 extra module included for the installation of a surge protection device.

For consumer units without a pre-intergrated surge device remove the suffix 's' from the part number.



AFDD RCBOs

- Combined AFDD & RCBO providing arc fault protection alongside over-current, residual current and over voltage protection.
- · Class A 30mA RCD
- B Trip Curve, 6kA short circuit capacity
- Suitable for TN and TT Earthing systems
- Single module 18mm width, fully interchangeable with switched and unswitched neutral RCBOs and single pole MCBs.
- Double pole switching for complete isolation in the event of a fault.





| Part Number | Rated Current |
|-----------------|---------------|
| P04-B06/30/1PNA | 6A |
| P04-B10/30/1PNA | 10A |
| P04-B16/30/1PNA | 16A |
| P04-B20/30/1PNA | 20A |
| P04-B32/30/1PNA | 32A |
| P04-B40/30/1PNA | 40A |

- *+1 module dedicated to SPD and is not a useable way
- For accessory items please refer to page 19
- For dimensional drawings please refer to page 28 & 29





Compact RCBOs 30mA Switched Neutral

- Double pole switching for complete isolation in the event of a fault
- · A switched neutral pole significantly reduces the installation and commissioning test time
- · Compact 96mm height increases the available wiring space within the consumer unit
- Suitable for TN & TT earthing systems
- Particularly suited to installations where double pole isolation of individual circuits may be required; e.g. Distribution circuits on TT earthing systems, Electric vehicle charging circuits etc.
- · 6kA short circuit capacity

| Rated | Type A | | | |
|---------|------------------|------------------|--|--|
| Current | B Trip Curve | C Trip Curve | | |
| 6A | RCBO-B06/30/1PNA | RCBO-C06/30/1PNA | | |
| 10A | RCBO-B10/30/1PNA | RCBO-C10/30/1PNA | | |
| 16A | RCBO-B16/30/1PNA | RCBO-C16/30/1PNA | | |
| 20A | RCBO-B20/30/1PNA | RCBO-C20/30/1PNA | | |
| 32A | RCBO-B32/30/1PNA | RCBO-C32/30/1PNA | | |
| 40A | RCBO-B40/30/1PNA | RCBO-C40/30/1PNA | | |



RCBOs 30mA Un-Switched Neutral

- · Single Pole switching
- Device height 113mm
- Suitable for TN Earthing systems
- Single pole RCBOs are suitable for use in TT network systems when used in conjunction with a DP main switch as the point of safe isolation
- · 6kA short circuit capacity

| Rated | Ту | ре А |
|---------|----------------|------------------|
| Current | B Trip Curve | C Trip Curve |
| 6A | RCBO-06/30/SPA | RCBO-06/30/1M/CA |
| 10A | RCBO-10/30/SPA | RCBO-10/30/1M/CA |
| 16A | RCBO-16/30/SPA | RCBO-16/30/1M/CA |
| 20A | RCBO-20/30/SPA | RCBO-20/30/1M/CA |
| 32A | RCBO-32/30/SPA | RCBO-32/30/1M/CA |
| 40A | RCBO-40/30/SPA | RCBO-40/30/1M/CA |
| 50A | RCBO-50/30/SPA | RCBO-50/30/1M/CA |



Surge Protection Kit

- Kit comprises Type 2 SPD, 40A B curve MCB & 6mm² connection cables
- Suitable for use in TN-C-S (PME) / TN-S / and TT networks
- Note: The MCB occupies one of the Consumer Units useable ways and the SPD occupies the +1 way

| Part Number | Description | | |
|-------------|---|--|--|
| SRG1VCU-KIT | SRGT2CU + 40A MCB + Cable set for Lewden Consumer Units | | |



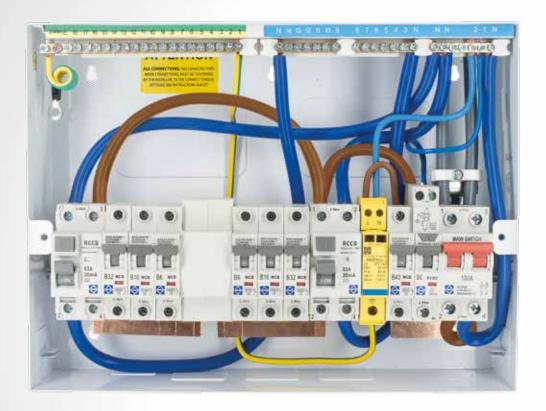
Scan to access the CPD course on SPDs from our Lewden Academy



PRO Dual RCCB Based Solution

A comprehensive consumer unit range comprising a 100A DP main switch and MCBs arranged in two groups, with each group protected by a dedicated RCCB.

- · Supplied with 'Flexi Cut' bus bar for easy management of outgoing MCBs assigned to each RCCB group.
- A high integrity bus bar allows for two additional outgoing MCB / RCBO circuits to be installed independently
 of the two RCCB protected groups.
- Arranged with 3 x Neutral & 1 x Earth bar.



1 Choice of RCCB ratings

Lewden offer a selection of RCCBs rated at 63A, 80A and 100A for coordination with the upstream OCPD (BS7671 536.4.3.2 / 536.4.5 / 536.4.202).

2 Type A RCCBs as standard

Designed for use with load equipment that features electronic components (BS7671 531.3.3 Types of RCD).

3 Division of final circuits

Multiple Neutral Busbars with ample number of terminations allow for maximum flexibility when dividing MCBs across the two RCCB protected groups, and when incorporating high integrity circuits.

4 Sub-division of circuits

The "Flexi -Cut" Bus bar provides total flexibility in division of distribution MCBs across the two RCCBs, and can be easily adjusted to meet any high integrity configuration. (BS7671 314.1 Division of installation).

5 High integrity option

The Dual RCCBs Consumer unit is designed to allocate up to two useable ways for the installation of MCBs, RCBOs, AFDD RCBOs, connected directly to the Main Switch via the busbar provided. This offers total separation from the circuits divided across the two RCCBs and is ideal for Security or Fire Alarm equipment, or the incorporation of type 2 surge protection. (BS7671 531.3.2 Unwanted tripping).

6 Ease of assembly

Highly flexible internal cabling allows for RCCBs to be positioned easily to cater for the inclusion of high integrity distribution circuits, including the installation of surge protection.



Populated Dual RCCB

- Configured with 100A DP Main Switch, 2x 80A 30mA RCCBs, and 6x MCBs
- 1 Extra module included for the installation of surge protection*
- 4 spare ways

| Knockout | ckout Part Useable Enclosure RCCB 80A | | MC | Bs B Trip C | Dimensional | | | |
|-------------|---------------------------------------|-------------|---------|-------------|-------------|-----|-----|----------|
| Arrangement | Number | Ways | Modules | Type A | 6A | 16A | 32A | Drawings |
| | PRO-PM10 | 10 Ways +1* | 17 | 2 | 2 | 1 | 3 | PRO5 |
| \bigcirc | PRO-RPM10 | 10Ways +1* | 17 | 2 | 2 | 1 | 3 | PRO5 |



Semi-Populated Dual RCCB

- Configured with 100A DP Main Switch, 2x 80A 30mA Class A RCCBs
- Includes interconnecting cables
- +1 Extra module included for the installation of surge protection*

| Knockout Arrangement | Part Number | Useable Ways | Enclosure Size (Modules) | RCCB 80A 30mA Type A | Dimensional Drawings |
|-------------------------|-------------------|--------------|-----------------------------|-------------------------|-------------------------|
| | PRO-MX12RRMFLEXIA | 6 Ways +1* | 13 | 2 | PRO4 |
| | PRO-MX16RRMFLEXIA | 10 Ways +1* | 17 | 2 | PRO5 |
| | PRO-MX21RRMFLEXIA | 15 Ways +1* | 22 | 2 | PRO6 |
| _ | PRO-R12RRMFLEXIA | 6Ways +1* | 13 | 2 | PRO4 |
| | PRO-R16RRMFLEXIA | 10Ways +1* | 17 | 2 | PRO5 |
| | PRO-R21RRMFLEXIA | 15Ways +1* | 22 | 2 | PRO6 |



Unpopulated Dual RCCB

- Configured with 100A DP Main Switch and interconnecting cables for 2 RCCBs. (RCCBs not included)
- Select appropriately rated RCCBs for the installation (63A, 80A, or 100A)
- +1 Extra module included for the installation of surge protection*

| Knockout Arrangement | Part Number | Useable Ways | Enclosure Size (Modules) | Main Switch | RCCB Positions | Dimensional Drawings |
|-------------------------|-------------|--------------|-----------------------------|----------------|-------------------|-------------------------|
| | PRO-MX12XXM | 6 Ways +1* | 13 | 1 | 2 | PRO4 |
| | PRO-MX16XXM | 10 Ways +1* | 17 | 1 | 2 | PRO5 |
| | PRO-MX21XXM | 15 Ways +1* | 22 | 1 | 2 | PRO6 |
| _ | PRO-R12XXM | 6Ways +1* | 13 | 1 | 2 | PRO4 |
| \bigcirc | PRO-R16XXM | 10Ways +1* | 17 | 1 | 2 | PRO5 |
| | PRO-R21XXM | 15Ways +1* | 22 | 1 | 2 | PRO6 |

- *+1 module dedicated to SPD and is not a useable way
- For circuit protection devices & accessory items see pages 19-21
- For dimensional drawings please refer to page 28 & 29

PRO Dual Tariff



Dual Tariff solutions essentially combine two separate RCBO based consumer units within one space saving enclosure. Arranged with two 100A rated main switches, they are primarily designed for installations that utilise two independent sets of meter tails operating on different electricity tariffs. They are particularly suited to the application of storage heater systems.

- Designed for use with single module RCBOs/ AFDD RCBOs.
- For applications where two main switches are required to isolate meter tails operating on different electricity tariffs.
- Supplied complete with two distribution comb bus bars and two neutral bars that allow maximum flexibility in the number of circuits that can be assigned to each main switch.

PRO RCCB Incomer& Garage Distribution

RCCB Incomer consumer units are Sub distribution boards, designed for applications such as workshops, garages, garden offices, and sheds where a small number of final distribution circuits are required.







Dual Tariff

- Configured with 2x 100A Main Switches and 2 distribution bus bars
- 2x Neutral bars & 1 x Earth bar
- Compatible with 6kA single pole MCBs and Switched or un-switched neutral RCBOs and AFDD RCBOs

| Knockout Arrangement | Part Number | Useable Ways | Enclosure Size (Modules) | Main Switch | Dimensional Drawings |
|-------------------------|-----------------|--------------|-----------------------------|-------------|----------------------|
| | PRO-MX17DT | 13 Ways | 17 | 2 | PRO5 |
| | PRO-MX22DT 18 V | 18 Ways | 22 | 2 | PRO6 |
| | PRO-R17DT | 13 Ways | 17 | 2 | PRO5 |
| | PRO-R22DT | 18 Ways | 22 | 2 | PRO6 |



RCCB Incomer

- · Configured with 30mA RCCB incomer
- 1 Extra module included for the installation of surge protection*
- Arranged with 1 x Neutral & 1 x Earth bar

| Knockout Arrangement | Part Number | Useable Ways | Enclosure Size (Modules) | RCCB 30mA Type A | Dimensional Drawings |
|-------------------------|-------------|--------------|-----------------------------|---------------------|----------------------|
| | PRO-MX04R | 2 Ways +1* | 5 | 63A | PRO1 |
| | PRO-MX08R | 6 Ways +1* | 9 | 63A | PRO2 |
| | PRO-MX10R | 8 Ways +1* | 11 | 80A | PRO3 |
| | PRO-MX12R | 10 Ways +1* | 13 | 80A | PRO4 |
| | PRO-R04R | 2 Ways + 1* | 5 | 63A | PRO1 |
| | PRO-R08R | 6 Ways + 1* | 9 | 63A | PRO2 |
| | PRO-R10R | 8 Ways + 1* | 11 | 80A | PRO3 |
| | PRO-R12R | 10 Ways + 1* | 13 | 80A | PRO4 |



Garage Distribution

- Sub distribution consumer unit range comprising Main switch or RCCB incomer
- Complete with two MCBs

| Knockout | Part Number | Enclosure Size | 100A DP Main | RCCB 63A 30mA Type A | MCBs B Trip Curve | | Dimensional |
|-------------|-----------------|----------------|-----------------|-------------------------|-------------------|-----|-------------|
| Arrangement | ran Number | (Modules) | Switch | | 6A | 16A | Drawings |
| | PRO-MCGARAGE-MS | 5 | 1 | - | 1 | 1 | PRO1 |
| | PRO-MCGARAGE-63 | 5 | - | 1 | 1 | 1 | PRO1 |
| | PRO-RGARAGE-MS | 5 | 1 | - | 1 | 1 | PRO1 |
| | PRO-RGARAGE-63 | 5 | - | 1 | 1 | 1 | PRO1 |

- *+1 module dedicated to SPD and is not a useable way
- For circuit protection devices & accessory items see pages 19-21
- For dimensional drawings please refer to page 28 & 29

PRO Electric Vehicle Power Distribution Solution

A range of consumer units designed for residential retrofitting applications where EV charges are to be added to an existing installation. Available with the option of Type A or Type B RCCB's and 40A MCBs making them compatible with 7.2kW EV Chargers.

- · Suitable for use with 7.2kW residential EV chargers.
- 63A 30mA RCCBs available in Type A and B, providing isolation of both Live conductors.
- Available pre-fitted with T2 SPD.
- Meets the requirements of Section 722 of BS7671.





1 Choice of RCCB Type

BS7671 requires protection against DC fault currents in excess of 6mA, achieved either by the installation of an upstream Type B RCD (722.531.3.101(i)), or where the EV chargers incorporates a suitable internal Residual Current Detection Device (RCD-DD), a Type A RCD can be utilised (722.531.3.101(ii)).

2 RCD selection

BS7671 requires the use of an RCD which disconnects all live conductors (722.531.3.1) with a rated residual operation current not exceeding 30mA. (722.531.3.101).

Protection against overcurrent

BS7671 requires that each charging point is supplied individually by a suitable overcurrent device (722.533.101). Each EV distribution board incorporates a 40A C Curve MCB, to take into account any derating factors on the installation.

4 Optional surge protection

Available pre-fitted with a Type 2 Surge protector suitable for use in TN-C-S (PME), TNS and TT network systems.





| Knockout Arrangement | Part Number | Description | Enclosure Size (Modules) | Dimensional Drawing |
|-------------------------|-------------|--|-----------------------------|------------------------|
| \bigcirc | PRO-REV40A | - 40A 6kA B Curve MCB - 63A 2P 30mA Type A RCCB | 5 | PRO1 |

40A with Type A RCCB & Surge Protection



| Knockout Arrangement | Part Number | Description | Enclosure Size (Modules) | Dimensional Drawing |
|-------------------------|-------------|--|-----------------------------|------------------------|
| \bigcirc | PRO-REV40AS | - 40A 6kA B Curve MCB - 63A 2P 30mA Type A RCCB - Type 2 SPD | 5 | PRO1 |

40A with Type B RCCB



| Knockout Arrangement | Part Number | Description | Enclosure Size (Modules) | Dimensional Drawing |
|-------------------------|-------------|--|-----------------------------|------------------------|
| \bigcirc | PRO-REV40B | - 40A 6kA B Curve MCB - 63A 2P 30mA Type B RCCB | 5 | PRO1 |

40A with Type B RCCB & Surge Protection



| Knockout Arrangement | Part Number | Description | Enclosure Size (Modules) | Dimensional Drawing | |
|-------------------------|-------------|--|-----------------------------|------------------------|--|
| \bigcirc | PRO-REV40BS | - 40A 6kA B Curve MCB - 63A 2P 30mA Type B RCCB - Type 2 SPD | 9 | PRO2 | |



PRO Empty Modular Enclosures

- Supplied complete with single phase distribution busbar and neutral cable to allow for distribution set up via a DP main switch (GMS1002P main switch not included)
- •1 Neutral and 1 Earth bar

| Knockout Arrangement | Part Number | Enclosure Size (Modules) | Dimensional Drawings |
|-------------------------|-------------|--------------------------|----------------------|
| | PRO-MC05ENC | 5 | PRO1 |
| | PRO-MC09ENC | 9 | PRO2 |
| | PRO-MC11ENC | 11 | PRO3 |
| | PRO-MC13ENC | 13 | PRO4 |
| | PRO-MC17ENC | 17 | PRO5 |
| | PRO-MC22ENC | 22 | PRO6 |
| | PRO-R05ENC | 5 | PRO1 |
| | PRO-R09ENC | 9 | PRO2 |
| | PRO-R11ENC | 11 | PRO3 |
| \bigcirc | PRO-R13ENC | 13 | PRO4 |
| | PRO-R17ENC | 17 | PRO5 |
| | PRO-R22ENC | 22 | PRO6 |



Dual Row Modular Enclosure

- 2 rows of 16 modules (Neutral & earth bar above each row)
- · Supplied with busbars and interconnecting cables to accommodate main switch & up to 30 RCBOs
- Detachable un-drilled gland plates top & bottom

| Part Number | Enclosure Size (Modules) | Dimensional Drawings |
|-------------|--------------------------|----------------------|
| QFS-MC32ENC | 32 | QFS 1 |



Component Enclosure

- Ideal for housing singular devices such as main switches, SPD's and RCCB's
- The enclosures base features fully open sided access along with a centrally positioned DIN rail, providing optimum mounting space for up to 5 modules, with equal cabling distance both above and below the mounted device
- Particularly suited to applications where additional wiring room and installation access are advantageous
- A 3-way earth bar suitable for conductors up to 25 mm² is also provided

| Part Number | Enclosure Size (Modules) | Dimensional Drawings |
|-------------|--------------------------|----------------------|
| 5MODMC | 5 | QFS 2 |

- *+1 module dedicated to SPD and is not a useable way
- For circuit protection devices & accessory items see pages 19-21
- For dimensional drawings please refer to page 28-30

Consumer Units Accessories



| Pierceable cable grommets | | | | |
|---------------------------|--------------------------|--|--|--|
| Small | Large | | | |
| CUGR-4025 | CUGR-5050 | | | |
| 40mm x 25mm (Pack of 10) | 50mm x 50mm (Pack of 10) | | | |



Mains Tail Clamp

MTC

1 in each pack





Multi-Function DIN rail blank

MFDRB

1 in each pack





Cable grommets for rear knockouts - 100 x 60mm

CUGR-LR

Pack of 3



Padlock for MCBs, RCCBs and RCBOs

MCBLOCK

3 keys, Yellow Hazard Indicator



Blanking strip

CU-BL

2 Blanking strips of 6 ways in each pack



Cable grommets for rear knockouts - 60 x 60mm

CUGR-SR

Pack of 4

- $\boldsymbol{\cdot}$ Small, large and rear cable grommets not applicable to 5MODMC and QFS-MC32ENC
- MTC not applicable to Component Enclosures

Circuit Protection Devices



Main Switch

- 100A DP 2 module width
- Terminal capacity 50mm²

| Part Number | Rated Current | Rated Voltage | Switch Configuration | Utilisation Category |
|-------------|---------------|--------------------|-------------------------|-------------------------|
| GMS1002P | 100A | 230/400VAC 50/60Hz | Double Pole | AC22A |



RCCB Class A

- Suitable for use on pure AC and where pulsating DC exists up to 6mA
- Type A devices are also suitable for AC applications
- 6kA Short circuit withstand



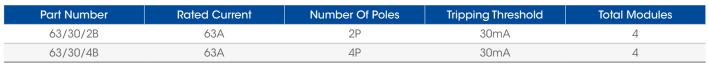
| Part Number | Rated Current | Tripping Threshold | Total Modules |
|--------------|-------------------------|--------------------|---------------|
| 63/30/2A | 63A | 30mA | 2 |
| 80/30/2A | 80A | 30mA | 2 |
| 100/30/2A | 100A | 30mA | 2 |
| 100/100/2SA* | 100A Selective (S type) | 100mA Time delayed | 2 |

^{*}Where a metal consumer unit is installed in a TT system, the main switch can be replaced by a 100A 100mA - S type (time delayed) RCCB



RCCB Class B

- 2 pole, 4 module for 230V applications
- 4 pole, 4 module for 400V applications
- Suitable for use on pure AC, pulsating DC, smooth DC & high frequency 10Hz<1kHz
- Type B devices are also suitable for type AC, A & F applications



^{*}Can be installed in 5MODMC enclosure



Miniature Circuit Breakers Single Pole

- 6kA Short circuit breaking capacity.
- B or C curve overcurrent trip options
- Ratings from 6A to 50A
- Fully interchangeable with switched and unswitched neutral RCBO options

| Rated Current | B Trip Curve | C Trip Curve |
|---------------|--------------|--------------|
| 6 | G06-1B06 | G06-1 C06 |
| 10 | G06-1B10 | G06-1C10 |
| 16 | G06-1B16 | G06-1C16 |
| 20 | G06-1B20 | G06-1 C20 |
| 32 | G06-1B32 | G06-1 C32 |
| 40 | G06-1B40 | G06-1C40 |
| 50 | G06-1B50 | G06-1 C50 |



RCBOs 30mA Un-Switched Neutral



- Single Pole switching
- Device height 113mm
- Suitable for TN Earthing systems
- Single pole RCBOs are suitable for use in TT network systems when used in conjunction with a DP main switch as the point of safe isolation
- 6kA short circuit capacity

| Rated | Тур | oe A |
|---------|----------------|------------------|
| Current | B Trip Curve | C Trip Curve |
| 6A | RCBO-06/30/SPA | RCBO-06/30/1M/CA |
| 10A | RCBO-10/30/SPA | RCBO-10/30/1M/CA |
| 16A | RCBO-16/30/SPA | RCBO-16/30/1M/CA |
| 20A | RCBO-20/30/SPA | RCBO-20/30/1M/CA |
| 32A | RCBO-32/30/SPA | RCBO-32/30/1M/CA |
| 40A | RCBO-40/30/SPA | RCBO-40/30/1M/CA |
| 50A | RCBO-50/30/SPA | RCBO-50/30/1M/CA |



Compact RCBOs 30mA Switched Neutral



- Compact 96mm Height increases the avaliable wiring space within the consumer unit
- Switched Neutral pole (Fully Interchangeable)
- 30mA Class A
- Ratings from 6A to 40A
- 6kA short circuit capacity

| | Compact Height | | | | |
|----------------|------------------|------------------|--|--|--|
| Rated Current | Switched Neutral | | | | |
| Raied Cuiterii | B Trip Curve | C Trip Curve | | | |
| 6 | RCBO-B06/30/1PNA | RCBO-C06/30/1PNA | | | |
| 10 | RCBO-B10/30/1PNA | RCBO-C10/30/1PNA | | | |
| 16 | RCBO-B16/30/1PNA | RCBO-C16/30/1PNA | | | |
| 20 | RCBO-B20/30/1PNA | RCBO-C20/30/1PNA | | | |
| 32 | RCBO-B32/30/1PNA | RCBO-C32/30/1PNA | | | |
| 40 | RCBO-B40/30/1PNA | RCBO-C40/30/1PNA | | | |
| 50 | - | - | | | |



AFDD RCBOs

- Combined AFDD & RCBO providing Arc Fault protection alongside over-current, residual current and over voltage protection
- Class A 30mA RCD
- B Trip Curve, 6kA short circuit capacity
- Suitable for TN and TT Earthing systems
- Single module 18mm width, fully interchangeable with switched and unswitched neutral RCBOs and single pole MCBs.
- Switched neutral pole



| Part Number | Rated Current |
|-----------------|---------------|
| P04-B06/30/1PNA | 6A |
| P04-B10/30/1PNA | 10A |
| P04-B16/30/1PNA | 16A |
| P04-B20/30/1PNA | 20A |
| P04-B32/30/1PNA | 32A |
| P04-B40/30/1PNA | 40A |

Control Devices



Bell Transformer

- To be used in conjunction with a 6A primary MCB
- User selectable secondary voltages of 4-8-12-16-24 VAC
- Rated output current 1A @ 8V



Scan to download the technical datasheets for these products

| Part Number | Power Rating | Primary voltage | Secondary Voltage tappings | Insulation Class | Total Modules |
|-------------|--------------|--------------------|-------------------------------|---------------------|------------------|
| ВТ | 8VA | 230VAC 50Hz | 4-8-12-16-24 VAC | II | 2 |

Note: Max output current will vary according to secondary tapping voltage selected.



Contactors

- 230V AC DIN rail mounting Contactors suitable for residential applications
- · 230 AC coil rating
- Normally Open poles (closed on energisation)

| Part Number | Rated Current | Poles | Module Number |
|-------------|---------------|-------|---------------|
| IC20 | 20A | 2 | 1 |
| IC24/4 | 24A | 4 | 2 |
| IC40/2 | 40A | 2 | 2 |
| IC63/4 | 63A | 4 | 3 |



Time Switches

- 230V 50Hz DIN rail mounting time switches
- Voltage free output contact
- 16A (Resistive) Load rating

| Part Number | Module Number | Description |
|-------------|---------------|--|
| DTC | 2 | 7 Day / 1 Channel / 8 on - 8 off timed events |
| TC1M | 1 | 24hr / 15 min segments |
| TCS | 1 | Staircase timer 30 sec to 20 min timed delay off |

Surge Protection Devices



Surge Protection Kit

- Kit comprises Type 2 SPD, 40A B curve MCB & 6mm² connection cables
- Suitable for use in TN-C-S (PME) / TN-S / and TT networks
- Note: The MCB occupies one of the Consumer Units useable ways and the SPD occupies the +1 way

| Part Number | Description |
|-------------|-------------------------------|
| SRG1VCU-KIT | SRGT2CU + 40A MCB + Cable set |



Scan to access the CPD course on SPDs from our Lewden Academy





Single Phase SPDs

- Suitable for use in TN-C-S (PME) / TNS / TT network systems
- SRG1V1G features a volt free signaling changeover contact & twin earth terminals
- SRGT2CU requires 40A MCB which utilizes one of the consumer unit outgoing ways
- SRGT2CU Compact design for consumer units
- IEC61643-11



Scan to access the CPD course on SPDs from our Lewden Academy

| Part Number | Туре | Voltage Protection Level (Up) L/N | Nominal discharge current (In/Imax) 8/20 µs | Max continuous operating voltage (Uc) | Lightning impulse current (I imp / I total) 10/350 µs | Config. | Total Modules |
|----------------|----------|---|---|---|---|-------------|------------------|
| SRGT2CU | Type 2 | <1.5kV | 20/40kA | 275 VAC | - | 1+1 | 1 |
| SRG1V1G* | Type 2 | 1.25kV | 20/40kA | 275 VAC | - | (Connection | 2 |
| SRG1123* | Type 1&2 | 1.3kV | 20/50kA | 280 VAC | 12.5/25kA | Type CT2) | 2 |

^{*} Can be installed in 5MODMC enclosure.



Single Phase Retrofit Surge Protection - Type 2

- · For installations where surge protection cannot be accommodated within the existing consumer unit
- Available in either metal or insulated weatherproof ABS enclosures
- Utilizes SRGT2CU type 2 single phase surge arrester
- Suitable for use in TN-C-S (PME) / TNS / TT network systems

| Part Number | Description | Dimensional Drawings |
|-------------|--|----------------------|
| SRG1VCU-RM | IP20, Steel enclosure c/w Main Switch, 40A MCB and SRGT2CU | QFS 2 |
| SRG1VCU-RP | IP55, Plastic Enclosure c/w Main Switch, 40A MCB and SRGT2CU | - |

Sub Distribution



100A DP metal fused switch

- Main switch or RCCB incomer options
- Supplied complete with 63A, 80A, and 100A gG fuses IEC60269-2 (BS88-2) Ø22x58mm
- Easily configurable for top or bottom entry of incoming supply cables
- 3 way Earth bar 25mm²

| Part Number | Rated Current | Rated voltage | Incomer | Dimensional Drawings |
|-------------|---------------|------------------|--------------------------------------|-------------------------|
| FS6380100 | 100A | 230VAC | Main Switch 100A DP | QFS 2 |
| FR6380100 | 100A | 230VAC | RCCB 100mA class A (Time Delayed) | QFS 2 |



80A domestic service fused switch

- Double Pole Switch
- Insulated Thermosetting Polymer Enclosure
- Supplied complete with 80A type ME fuse and cable duct



| Part Number | Rated Current | Rated voltage | Utilisation Category | Fuse | Dimensional Drawings |
|-------------|---------------|---------------|-------------------------|---------------------|-------------------------|
| MSF | 80A | 230VAC 50Hz | AC21 | IEC60269-3 (BS88-3) | MSF |

| Part Numbers | Descriptions | |
|--------------|--------------------------------|--|
| MSF-CD | MSF100(CD) cable duct for MSF1 | |



Replacement fuses for FS6380100

| Part Numbers | Rating | Туре | Breaking Capacity | Standard |
|--------------|--------|--------------------|-------------------|------------|
| F063A | 63A | 22x58mm | | |
| F080A | 80A | Cylindrical, | 120kA , 500 VAC | IEC60269-2 |
| F100A | 100A | General Purpose Gg | | |



Replacement fuses for MSF

| Part Numbers | Rating | Туре | Breaking Capacity | Standard |
|--------------|--------|------------------------|-------------------|-------------------|
| ME080A | 80A | ME, General Purpose Gg | 33kA 415VAC | BS88-3 IEC60269-3 |

[•] For dimensional drawings refer to page 30-31



Electricity Isolation



Provides for electrical isolation between the DNO kWh meter and consumer unit or distribution board. The isolation switch permits the supply to the installation to be interrupted without withdrawing the DNO cut out fuse. Available as either an empty enclosure or with integrated main switch.



Manufactured from durable ABS material, the insulated enclosure features two separate interlocking covers, permitting the installation and separate security sealing of supply and load conductors.

Supplied complete with cable entry plugs to maintain ingress protection when DNO service head and meter are installed prior to consumer unit installation.





Covers can be sealed either by steel wire ≤Ø3mm with lead crimp, or flat plastic zip tie ≤4mm width.



Electricity Isolator Switch

- Available in 2 module enclosure complete with 100A DP Main Switch, or in 4 module enclosure complete with 100A 4P Main Switch.
- Ingress rating IP20 IK07
- Designed for use with 16mm² & 25mm² double insulated meter tails type 6181Y

| Part Number | Enclosure modules | Main Switch | Dimensional Drawings |
|-------------|-------------------|-------------|----------------------|
| SLM2-MS | 2 | 100A DP | SLM2 |
| SLM4-MS | 4 | 100A 4P | SLM4 |



Electricity Isolator Switch Enclosure

- Available in both 2 module and 4 module enclosure sizes.
- Designed for use with 16mm² & 25mm² double insulated meter tails type 6181Y
- Ingress rating IP20 IK07

| Part Number | Enclosure modules | Main Switch | Dimensional Drawings |
|-------------|-------------------|-------------|----------------------|
| SLM2 | 2 | - | SLM2 |
| SLM4 | 4 | - | SLM4 |

[•] For dimensional drawings please refer to page 31

TP&N Distribution board Type B **Range**

A comprehensive distribution board range for modern commercial & industrial installations

TP&N Distribution Boards

The complete solution to managing the distribution of electricity in commercial premises such as offices, warehouses, factories, schools, hospitals etc.

Lewden distribution boards provide the flexibility required allowing engineers to design a functional distribution system that protects the electrical installation in a compact, modern enclosure. Each board has been designed to save space and provide quick and easy connection.

Each Board has an all steel construction finished with a powder coated finish to RAL 9003, white.

Now included in the range:

AFDD/RCBO 6kA Multi-pole MCBs Surge Extension Boxes

and more!

Main features

- Heavy gauge (1.2mm) robust & modular steel construction, suitable for wall mounting
- Allows compliance with BS7671:2008 2018+A2:2022 + Amendment 3:2015
- Optimal cabling space
- Rigid construction prevents distortion
- Lockable hinged access door for safety and security
- · Removable top and bottom gland plates
- Powder coated texture finish to RAL 9003 white





Scan to discover our TP&N Distribution Board Brochure



ATTRACTIVE AND ERGONOMIC PROFILE DESIGNED FOR COMMERCIAL PREMISES

- Designed & Engineered in the UK
- Compliant to BS EN 61439-3:2012
- Supplied unpopulated for maximum design flexibility
- Compatible with the Lewden 6kA & 10kA circuit protection range
- Four modular sizes available: 4, 8, 12 & 16
 TP outgoing ways

Included in the range



TP&N DISTRIBUTION BOARDS



INCOMERS



SURGE PROTECTION



CIRCUIT PROTECTION 10kA



CIRCUIT PROTECTION 6kA

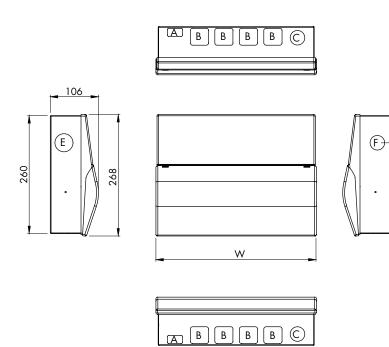


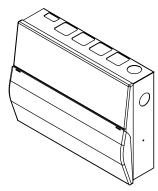
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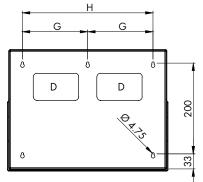


DIMENSIONAL DRAWINGS

PRO







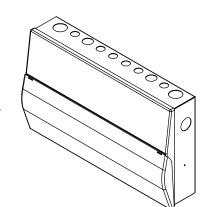
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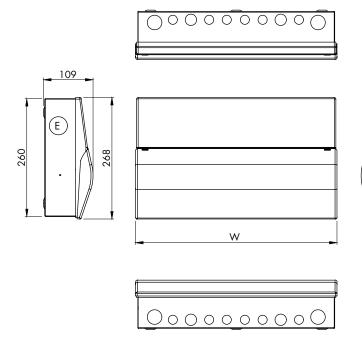
| Drawing Reference | G | Н |
|-------------------|-----|-----|
| PRO1 | - | 70 |
| PRO2 | 71 | 202 |
| PRO3 | 89 | 234 |
| PRO4 | 107 | 220 |
| PRO5 | 143 | 342 |
| PRO6 | 188 | 432 |

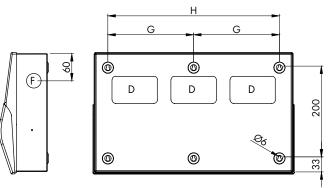
| Drawing Ref | Part Number | Enclosure Total | Enclosure Width | | kouts tom faces | | Knockout Rear face | | | nockou eft fac | | | nockoi ght fa | | |
|----------------|-------------------|--------------------|--------------------|-----------------------|--------------------|---------|-----------------------|-----|-----|-------------------|-----|-----|------------------|-----|--|
| Kei | Number | modules | W (mm) | Size | Qty | Ref | Size | Qty | Ref | Size | Qty | Ref | Size | Qty | |
| | PRO-MX04M | _ | | | | | | | | ' | | | | | |
| | PRO-MXO4R | | | | | | | | | | | | | | |
| PRO1 | PRO-MCGARAGE-MS | 5 | 136 | 33x18 | 2 | D | 60x60 | 1 | Е | Ø32 | 1 | F | Ø25 | 1 | |
| | PRO-MCGARAGE-63 | | | | | | | | | | | | | | |
| | PRO-MC05ENC | | | | | | | | | | | | | | |
| | PRO-MX08M | | | 33x18 | 1 | | | | | | | | | | |
| PRO2 | PRO-MX08R | 9 | 210 | 40x37 | 1 | D | 60x60 | 2 | Е | Ø40 | 1 | F | Ø32 | 1 | |
| | PRO-MC09ENC | _ | | Ø32 1 | | | | | | | | | | | |
| | PRO-MX10M | 11 | | | 33x18 | 1 | | | | | | | | | |
| PRO3 | PRO-MX10R | | 244 | 40x37 | 1 | D 60x60 | 2 | Е | Ø40 | 1 | F | Ø32 | 1 | | |
| | PRO-MC11ENC | | | | Ø32 | 1 | | | | | | | | | |
| | PRO-MX12M | | | 33x18 40x37 Ø32 | | | | | | | | | | | |
| | PRO-MX12R | _ | | | 33x18 | 1 | | | | | | | | | |
| PRO4 | PRO-MX12XXM | 13 | 281 | | 2 | D | 100x60 | 2 | Е | Ø40 | 1 | F | Ø32 | 1 | |
| | PRO-MX12RRMFLEXIA | _ | | | 1 | | | | | | | | | | |
| | PRO-MC13ENC | _ | | | | | | | | | | | | | |
| | PRO-MX16M | | | | | | | | | | | | | | |
| PRO5 | PRO-MX16XXM | - - 17 | 353 | 33x18 40x37 | 1 | D | 100 (0 0 | Е | Ø40 | 1 | F | Ø32 | , | | |
| PROS | PRO-MX16RRMFLEXIA | - 17 | 333 | 40x37 Ø32 | 4 1 | D | 100x60 | 2 | Е | <i>Ø</i> 40 | I | Γ | <i>W</i> 32 | ı | |
| | PRO-MC17ENC | _ | | 202 | • | | | | | | | | | | |
| | PRO-MX21M | | | | _ | | | | | | | | | | |
| DDO4 | PRO-MX21XXM | 20 | 442 | 33x18 | 1 | Ь | 100,40 | 2 | г | Ø40 | 1 | _ | (X20 | 1 | |
| PRO6 | PRO-MX21RRMFLEXIA | - 22 | 443 | 40x37 Ø32 | 5 1 | D | D 100x60 | 0 3 | Е | Ø40 | 1 | F | Ø32 | | |
| | PRO-MC22ENC | _ | | | , | | | | | | | | | | |

DIMENSIONAL **DRAWINGS**

PRO





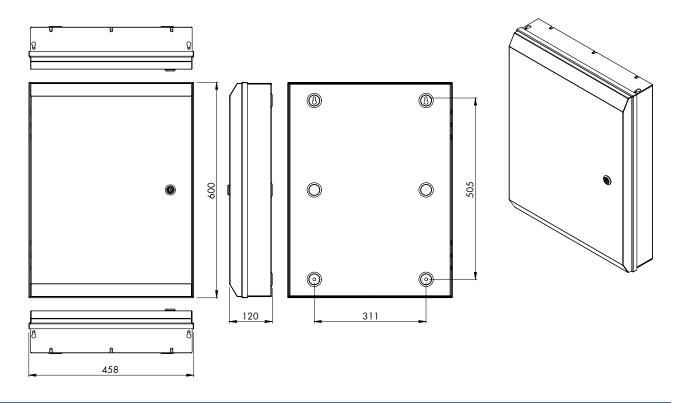


| Drawing Reference | G | Н |
|-------------------|-----|-----|
| PRO1 | - | 70 |
| PRO2 | 71 | 202 |
| PRO3 | 89 | 234 |
| PRO4 | 107 | 220 |
| PRO5 | 143 | 342 |
| PRO6 | 188 | 432 |

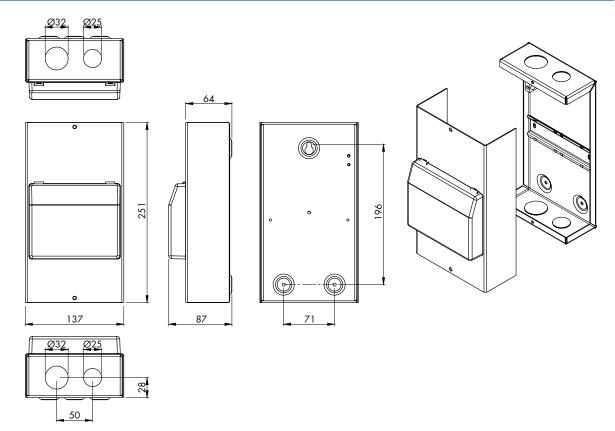
| Drawing Ref | Part Number | Enclosure Enclosure Total Width | | Knockouts Top & Bottom faces | | Knockouts Rear face | | Knockouts Left face | | | Knockouts Right face | | | | | | | | | | | | | | | |
|----------------|------------------|------------------------------------|--------|---------------------------------|--------|------------------------|----------|------------------------|-------|------|-------------------------|-----|------|-----|---|--|--|-----|---|--|--|--|--|--|--|--|
| KOI | Number | modules | W (mm) | Size | Qty | Ref | Size | Qty | Ref | Size | Qty | Ref | Size | Qty | | | | | | | | | | | | |
| ' | PRO-R04M | • | ' | | | | | | | | | | | | | | | | | | | | | | | |
| | PRO-RO4R | | | Ø00 | 0 | | | | | | | | | | | | | | | | | | | | | |
| PRO1 | PRO-RGARAGE-MS | 5 | 136 | Ø20 Ø25 | 2 | D | 60x60 | 1 | Е | Ø32 | 1 | F | Ø25 | 1 | | | | | | | | | | | | |
| | PRO-RGARAGE-63 | _ | | <i>9</i> 20 | 1 | | | | | | | | | | | | | | | | | | | | | |
| - | PRO-R05ENC | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PRO-R08M | | | Ø20 | 3 | | | | | | | | | | | | | | | | | | | | | |
| PRO2 | PRO-R08R | 9 | 210 | Ø25 | 1 | D | 60x60 | 2 | Е | Ø40 | 1 | F | Ø32 | 1 | | | | | | | | | | | | |
| | PRO-R09ENC | _ | | Ø32 | 1 | | | | | | | | | | | | | | | | | | | | | |
| | PRO-R10M | | | Ø20 | 3 | | | | | | | | | | | | | | | | | | | | | |
| PRO3 | PRO-R10R | 11 | 244 | Ø25 2 Ø32 1 | D | 60x60 | 2 | Е | Ø40 1 | 1 | F | Ø32 | 1 | | | | | | | | | | | | | |
| | PRO-R11ENC | | | | 1 | | | | | | | | | | | | | | | | | | | | | |
| | PRO-R12M | _ | | | | | | | | | | | | | | | | | | | | | | | | |
| | PRO-R12R | | | · | Ĭ. | Ĭ. | Ī | Ī | Ī | Ī | Ī | ĺ | | | ĺ | | | Ø20 | 4 | | | | | | | |
| PRO4 | PRO-R12XXM | 13 | 281 | Ø25 | | D | D 100x60 | 2 | Е | Ø40 | 1 | F | Ø32 | 1 | | | | | | | | | | | | |
| | PRO-R12RRMFLEXIA | _ | | Ø32 | 1 | | | | | | | | | | | | | | | | | | | | | |
| | PRO-R13ENC | _ | | | | | | | | | | | | | | | | | | | | | | | | |
| | PRO-R16M | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PRO-R16XXM | - | | Ø20 | 4 | | | | _ | ~ | | _ | ~~~ | 1 | | | | | | | | | | | | |
| PRO5 | PRO-R16RRMFLEXIA | - 17 | 353 | Ø25 Ø32 | 2 2 | D | 100x60 | 2 | Е | Ø40 | 1 | F | Ø32 | | | | | | | | | | | | | |
| | PRO-R17ENC | _ | | V 02 | 2 | | | | | | | | | | | | | | | | | | | | | |
| | PRO-R21M | | | | | | | | | | | | | | | | | | | | | | | | | |
| DDC / | PRO-R21XXM | - | | Ø20 | 6 | - | 100 (6 | 0 | _ | Ø 16 | , | _ | dos | , | | | | | | | | | | | | |
| PRO6 | PRO-R21RRMFLEXIA | - 22 | 443 | Ø25 Ø32 | 2 2 | D | 100x60 | 3 | Е | Ø40 | 1 | F | Ø32 | 1 | | | | | | | | | | | | |
| | PRO-R22ENC | | | | | | | | | W3Z | ۷ | | | | | | | | | | | | | | | |

DIMENSIONAL DRAWINGS

QFS₁



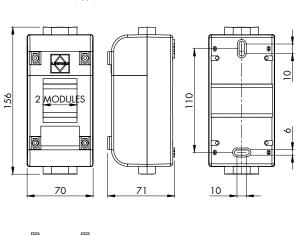
QFS 2



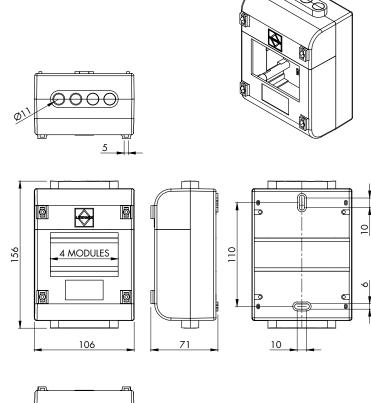


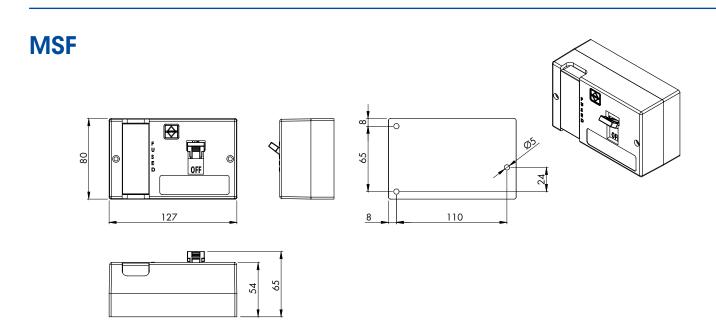
DIMENSIONAL **DRAWINGS**

SLM2 SLM4









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Chris Smith

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| | GU |
| | KT |
| | ME |
| | PO |
| | RG |
| Rob Haworth | RH |
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| Tony Howard | B |
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