

hager
RCBO Arc Fault
Detection Devices



hager RCBO Arc Fault Detection Devices Installation Guide

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hager RCBO Arc Fault Detection Devices



Specifications

- **Product Type:** Consumer Unit AFDD Single Mod
- **Models:** ARR906U, ARR910U, ARR916U, ARR920U, ARR925U, ARR932U, ARM906U, ARM910U, ARM916U, ARM920U, ARM925U, ARM932U
- **Curve Type:** B curve
- **Breaking Capacity:** 6kA
- **Type:** A
- **Sensitivity:** 30mA

Product Usage Instructions

Hager RCBO / MCB / AFDD Installation

- Ensure the unit is compatible with Hager Consumer Units ZD0921 Design 10 Single, Dual Row & Flush, Design 30 Single & Dual Row, and Design 50 Flush.
- For retrofit applications, ensure the Internal neutral cable is uprated to 25mm as per cable part number KE03B.

Switch Disconnecter Consumer Units

- For Surface Mounted Consumer Units, verify compatibility with RCBO / AFDD devices maintaining Ina & Inc ratings.
- For Flush Mounted Consumer Units, ensure the Internal neutral cable is uprated to retain board Ina rating.

100A Dual RCCB Consumer Units

- Ensure compatibility with Tyne MCB/AFDD devices for Split load dual RCCB metal Consumer unit designs.
- Derate the Inc rating of each RCCB to 80A when MCB/AFDD devices are fitted. Provide upstream overload protection at a maximum of 80A or ensure downstream devices sum to 80A or less.

100A RCCB Incomer Consumer Units

- Derate the Inc rating of the RCCB to 90A when used with outgoing MCB / AFDD devices. Provide upstream overload protection at a maximum of 90A or ensure downstream devices sum to 90A or less.

RCBO

Arc Fault Detection Devices

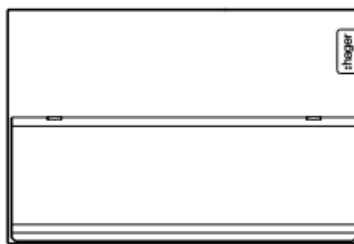
- ARR906U – RCBO 1M 6A B curve 6kA Type A 30mA
- ARR910U – RCBO 1M 10A B curve 6kA Type A 30mA
- ARR916U – RCBO 1M 16A B curve 6kA Type A 30mA
- ARR920U – RCBO 1M 20A B curve 6kA Type A 30mA
- ARR925U – RCBO 1M 25A B curve 6kA Type A 30mA
- ARR932U – RCBO 1M 32A B curve 6kA Type A 30mA

MCB

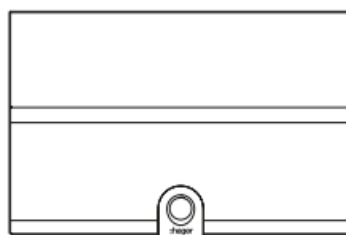
Arc Fault Detection Devices

- ARM906U – MCB 1M 6A B curve 6kA
- ARM910U – MCB 1M 10A B curve 6kA
- ARM916U – MCB 1M 16A B curve 6kA
- ARM920U – MCB 1M 20A B curve 6kA
- ARM925U – MCB 1M 25A B curve 6kA
- ARM932U – MCB 1M 32A B curve 6kA

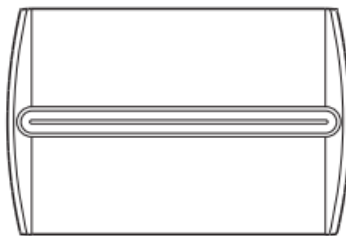
Hager RCBO / MCB / AFDD devices are retrofittable in 18th edition (metal) Hager Consumer Units only:



Design 10 Single, Dual Row & Flush



Design 30 Single & Dual Row



Design 50 Flush

Guidance Notes for All Switch Disconnecter Consumer Units

Switch Disconnecter Incomer Surface Mounted Consumer Units

- All current SD metal Consumer Unit designs are verified with RCBO / AFDD
- Ina & Inc ratings for these Consumer Unit designs are maintained when RCBO / AFDD devices are employed

Switch Disconnecter Incomer Flush Mounted Consumer Units

- For retrofit applications the Internal neutral cable is required to be upgraded to 25mm to retain board Ina rating (cable part number – KE03B)

Guidance Notes for All 100A Dual RCCB Consumer Units

100A Dual RCCB Surface & Flush Mounted Consumer Units

- All current Split load dual RCCB metal Consumer unit designs are verified with Tyne MCB/AFDD
- When used in conjunction with outgoing MCB / AFDD devices, the Consumer Unit assembly maintains an Ina of 100A, however the Inc rating of each RCCB where MCB/AFDD are fitted will need to be derated to 80A. To ensure this the upstream overload protection for the board must be provided at a maximum of 80 A or, the sum of the downstream devices for each RCCB where MCB/AFDD are fitted to be equal to or less than 80 A

Guidance Notes for 100A RCCB Incomer Consumer Units

RCCB Incomer Surface Mounted Consumer Units

- When used in conjunction with outgoing MCB / AFDD devices, the Inc rating of the RCCB fitted will need to be derated to 90 A. To ensure this the upstream overload protection for the board must be provided at a maximum of 90A or, the sum of the downstream devices for each RCCB where MCB / AFDD are fitted to be equal to or less than 90 A

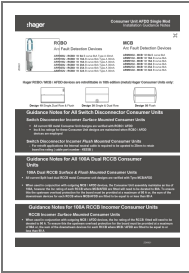
FAQs

Q: Can I install these devices in any consumer unit?

A: No, these devices are only retrofittable in Hager Consumer Units ZD0921 as specified in the guidance notes.

Q: What is the sensitivity of the Arc Fault Detection Devices?

A: The sensitivity is 30mA for all models listed in the specifications section.



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RCBO, RCBO Arc Fault Detection Devices, Arc Fault Detection Devices, Fault Detection Device s, Detection Devices, Devices

References

- [User Manual](#)

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