



Remote control opening and closing



Protocol to read remote control status



Stable performance, Reliable and safe



Sustainable power supply

Application scenarios

Electricity Protection, Sustainable Electricity



Electrified railway station as power supply, transportation power distribution system, highway electromechanical system



Smart mining, factory electricity, base station



Environmental Monitoring Station, Remote Irrigation, Smart Greenhouse

Technical parameter

| Electrical Characteristics | | |
|--|--|---|
| Standard | EN 50557 | |
| Power Distribution System | TT - TN - S | |
| Rated Voltage(Ue) | (V) | 230 AC (1) |
| Min Rated Voltage(Min Ue) | (V) | 85% Ue |
| Max Rated Voltage(Max Ue) | (V) | 110% Ue |
| Rated Insulation Voltage(Ui) | (V) | 500 |
| Diaelectric Strength | (V) | 2500 AC for 1 minute |
| Rated Withstand Voltage(Uimp) | (kV) | 4 |
| Over-voltage Category | III | |
| Rated Frequency | (Hz) | 50 |
| Breaking Capacity of Earthleakage(IΔm) | (A) | The IΔm of Related Breaker |
| Rated Residual Short Circuit Current (IΔc) | (A) | The IΔc of Related Breaker |
| | 2 | 4 |
| | 1P - 2P - 3P - 4P | |
| MCB Type | C - D | |
| MCB Type | AC - A - A[IR] - A[S] | |
| RCBO Type | | |
| Rated Current(In) | (A) | 25 - 40 - 63 - 80 - 100 |
| Rated Residual Current(IΔn) | (mA) | 30 - 100 - 300 - 500 |
| Rated non-operating resistance between electrical components and earth | 8 (30mA) - 2.5 (100/300/500mA) | |
| Rated working resistance between live parts and earth | (kΩ) | 16 (30mA) - 5 (100/300/500mA) |
| Static Power | (VA) | 1 |
| Power of remote control | (VA) | 20 |
| | 20 | 20 |
| Mechanical Characteristics | | |
| The Width of DIN Module | 1 | 1 |
| Max Operation Frequency | (oper./h) | 30 |
| Maximum mechanical durability (total number of operations) | 10000 | |
| | Soft Cable:≤ 1x35 - ≤ 2x16 - ≤ 1x16+2x10 | |
| Terminal Part of Breaker | (mm2) | hard wire:≤ 1x35 - ≤ 2x16 - ≤ 1x16+2x10 |
| Circuit breaker rated tightening torque | (Nm) | 3 (IDP) - 2 (IDP NA) |
| Installation location | any | |
| Protection Grade of Circuit Breaker | IP20 () - IP40 () | |
| Enviroment Characteristics | | |
| Pollution Grade | 2 | |
| Work Temperature | (°C) | -25 +60 |
| Storage Temperature | (°C) | -40 +70 |
| Relative Humidity | 55°C - RH 95% | |
| Communication parameters | | |
| BAUD | Default as 9600, Configurable | |
| Check Digit | No Check digit | |
| Data Digit | 8 | |
| Stop Digit | 1 | |
| Device Address | Factory Default Address;1 | |
| Remote control function | | |
| Auxiliary contacts for remote operating status access | | • |
| Internal Electrical Protection | PTC | PTC |



RCD Remote Control Device MT53RS Series

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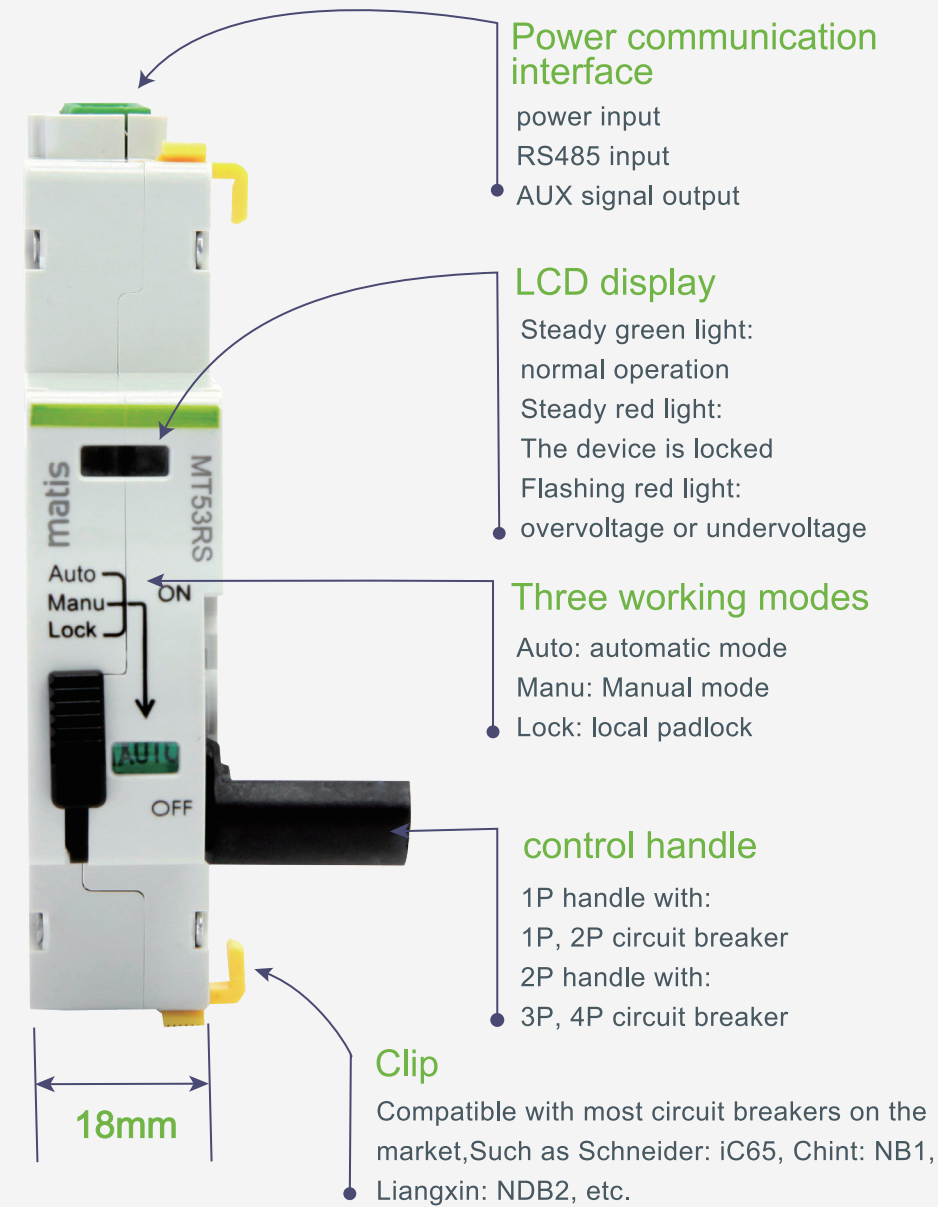
Power on with intelligence, safer and more efficient.



RCD Remote Control Device MT53RS

RCD_MT53RS Remote control device can achieve the following functions:

- Remote closing/opening circuit breaker, the circuit breaker can be equipped with residual current action protection accessories or other electrical accessories
- Resetting of a tripped circuit breaker, subject to compliance with current safety regulations
- Local control of circuit breaker with handle
- Safe operation on site with padlock attachment



There are 2 optional actions after the circuit breaker has tripped:

- AUTO mode: allow remote reset
- MANU mode: Disable remote reset

RCD remote control device ensures sustainable power supply

Remote control device

The MT53RS automatic recloser series is a compact control unit with a width of only 18MM, can be adapted to the miniature circuit breakers of Schneider, Liangxin, Chint and many other manufacturers on the market.

RS485_Modbus control

When the MT53RS is in Auto mode, connect the device to the power supply, and the device is in the open state. It can use RS485 for remote control, control the opening and closing of the device, and can also perform operations such as status reading and address reading through the Modbus protocol.

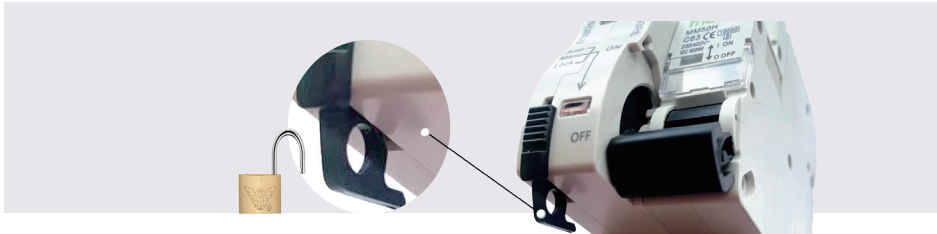


More flexible adaptation

Compatible with circuit breakers 1P, 2P, 3P, 4P

Local padlock

Safety locking, the MT53RS series has a mechanical pad-lock mechanism to adjust the working mode to Padlock mode, local locking. Make sure that the operator performs maintenance work in a safe state.



Product adaptation

| Circuit Breaker | MCB | | | RCD | | RCBO | | | | |
|-----------------|-----|----|-------|-----|----|------|----|----|------|----|
| | 1P | 2P | 3P/4P | 2P | 4P | 1P | 2P | 3P | 3P+N | 4P |
| MT53RS -1 | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ | | | |
| MT53RS -2 | | | ✓ | | | | | ✓ | ✓ | ✓ |
| MT53RS -11 | ✓ | | | | | | | | | |
| MT53RS -12 | | ✓ | | | | | | | | |

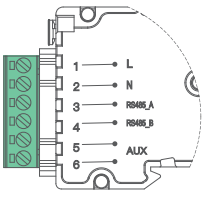
Note:

■ represents matching circuit breakers, which are W [Matis 50 series], K [Matis 90 series], H [Matis 22 series],J [Matis 60 series], N [Schneider Acti 9 series MCB/RCBO], N [Schneider Acti 9 series RCD iID], Z[Chint NB1 MCB], C[Chint NL1 RCCB];

■ represents the status output function, which are 01 [NC Aux], 10 [NO Aux], and no coding [no Aux function];

■ represents voltage, respectively E[DC24–48V], F[DC110V], G[DC220V], N[AC220V]

Terminal picture



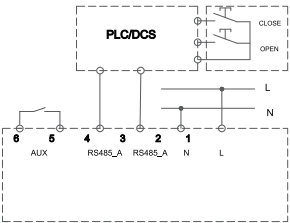
| Port | Explanation |
|---------|-----------------------------------|
| L | Live Line |
| N | Neutral line |
| RS485_A | Modbus protocol |
| RS485_B | Modbus protocol |
| AUX | Opening and closing status output |

The RCD_MT53RS remote control accessory with AUX interface can realize the following functions:

- Realize fast and reliable communication connection with intelligent gateway module (host computer) through RS485 wiring
- "OF" passive dry contact realizes remote indication

Wiring diagram

| Working mode: RS485control opening and closing | |
|--|--|
| RS485_A:Modbus protocol | |
| RS485_B:Modbus protocol | |
| AUX: output of opening and closing status | |



Dimensions

