



Smart Circuit Breaker 63A 2P

- RansNet Smart Energy Series

Model: **SE-BR2T**

The **RansNet SE-BR2T** is a smart 2-pole circuit breaker with leakage protection, remote switching, energy metering, and configurable electrical protection.

Unlike standalone smart breakers, SE-BR2T is designed to operate as part of the RansNet Smart Energy Series, enabling seamless integration with RansNet edge 4G/5G routers, private MQTT/TCP infrastructure, and the mfusion cloud management platform.

Through mfusion, enterprises can centrally monitor electrical status, energy usage, alarms, device health, and remote control operations across distributed sites from a unified dashboard.



KEY FEATURES

- Remote monitor via WiFi
- Leakage current detection & protection: Supported, configurable threshold
- Real-time energy metering: voltage, current, power, kWh
- Overcurrent, overvoltage, undervoltage protection
- Temperature monitoring with configurable thresholds
- MQTT / TCP server support for private deployment
- DIN Rail mounting, compact 2-pole design
- Mechanical life: 10,000 operations; Electrical life: 6,000 operations
- Breaking capacity: 6kA
- Rated current: 10A / 32A / 40A / 50A / 63A
- Max load current: 63A
- Terminal type: screw terminal
- Max cable cross-section: Up to 35mm²
- Communication: WiFi 2.4GHz, IEEE 802.11 b/g/n
- Protocol: MQTT / TCP
- Rated operating voltage: AC230V / AC400V

APPLICATIONS

- Smart home & building automation
- Industrial & commercial power distribution panels
- Remote facility management
- EV charging station protection
- Solar / renewable energy installations

CERTIFICATIONS & COMPLIANCE

- CE Certified
- RoHS Compliant
- IEC 60898-1 / IEC 61009 (RCCB Standard)
- WiFi: IEEE 802.11 b/g/n

ORDERING INFORMATION

Model	Description	Rated Current
SE-BR2T	2P Smart Circuit Breaker with Leakage Protection, WiFi	10A-63A (configurable)

TECHNICAL SPECIFICATIONS

Electrical Parameters	
Rated Operating Voltage	AC230V / AC400V
Rated Current Options	10A / 32A / 40A / 50A / 63A
Maximum Load Current	63A
Frame Current	125A
Breaking Capacity	6kA
Pole	2P

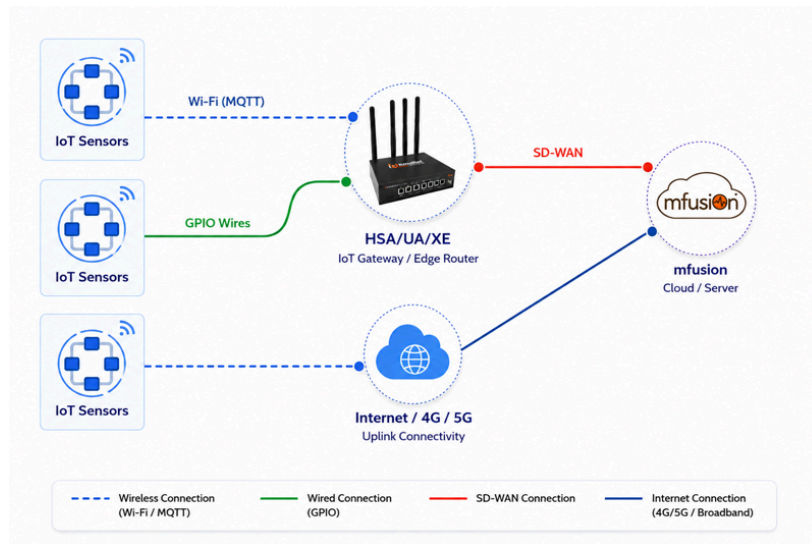
Protection Functions	
Over-current / Over-voltage / Under-voltage	Configurable threshold, auto-trip
Leakage Protection	Supported, configurable threshold
Temperature Protection	Overheat detection, configurable alert
Over-voltage Trip Value	AC 240-300V
Over-voltage Recovery Value	AC 220-250V
Under-voltage Trip Value	AC 140-190V
Under-voltage Recovery Value	AC 170-220V
Under-voltage Trip Delay	0.5s-6s
Auto Reclose Time	< 3s when no fault is detected

Mechanical & Installation	
Mounting	DIN Rail (35mm)
Terminal Type	Screw Terminal
Max Cable Cross-section	Up to 35 mm ²
Mechanical Life	10,000 operations
Electrical Life	6,000 operations

Communication & Control	
Communication	WiFi 2.4GHz, IEEE 802.11 b/g/n
Protocol	MQTT / TCP
Server Support	mfusion or customer-hosted MQTT/TCP
Remote Control / Metering	Yes — app/web; Voltage, Current, Power, kWh



RANSNET EDGE + MFUSION INTEGRATION



Layer	Function
SE-BR2T	Measures electrical data, protection actions, remote open/close control via WiFi (MQTT/TCP).
RansNet Edge Router	Secure WiFi/4G/5G/VPN uplink for distributed sites. Bridges SE-BR2T to MQTT broker and mfusion.
SD-WAN	Securely transport IoT data across any private/public underlay infrastructure.
mfusion Platform	Centralized monitoring, alarms, energy trends, remote ops, multi-site & tenant management, API integration.

