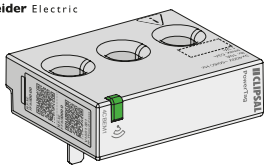
Wiser PowerTag Energy

en Wireless-communication energy sensor.

CLIPSAL by Schneider Electric



PHA52248-05

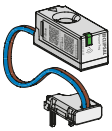
www.clipsal.com

Scan the QR Code to access the User Guide for complete information about the device, including operation, configuration and using the product.

PMD-I/DD/K55/1 - IEC 61557-12 / IEC 61326-1 / IEC 61010-1 / ETSI EN 300 328 AS/NZS 4268 / AS/NZS 2772

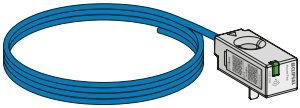
Wiser PowerTag Energy P63

4RCBEM2T - 4RCBEM2B



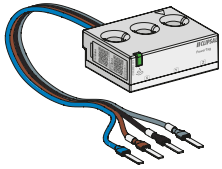
Wiser PowerTag Energy M63

4CBEM1 - 4CBEM3



Wiser PowerTag Energy F63

4RCBEM2 - 4RCBEM4



For your safety

The service instruction must be observed throughout the life time of this device. Visit our web site **www.clipsal.com** to download the technical documents for Resi MAX and MAX9 products.

PLEASE NOTE

- The installation, maintenance and eventual replacement of this device must only be carried out by a qualified electrician.
- This device must not be repaired.
- This device must not be installed if, when unpacking it, you observe that it is damaged.
- All applicable local, regional and national regulations must be complied with during the installation, use, maintenance and replacement of this device.
- Schneider Electric cannot be held responsible in the event of noncompliance with the instructions in this document and in the documents to which it refers.
- The Wiser PowerTag Energy devices must be installed inside electrical panels or switchboards, behind a door or plate, so that they are inaccessible for unauthorised persons. The electric panels must meet the requirements of the applicable standards (IEC 60670-24) and installed in compliance with current installation and safety rules.
- The models 4RCBEM2T, 4RCBEM2B are designed for use with Clipsal Max9 and ResiMax breakers only. Schneider Electric declines any responsibility if they are used with any other equipment. Refer to the Wiser PowerTag Energy selection guide for more details.
- During the installation of Wiser PowerTag Energy F63 a verification of the appropriate mechanical strength and electrical continuity of the connections must be performed by a professional installation engineer.

⚠⚠ DANGER

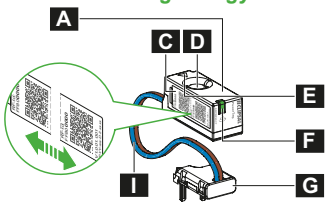
HAZARD OF ELECTRIC SHOCK, EXPLOSION OR ARC FLASH

- Turn off all power supply sources before installing and during maintenance of this equipment.
- Do not use a Wiser PowerTag Energy product for voltage testing purposes. A Voltage Tester must be used instead.

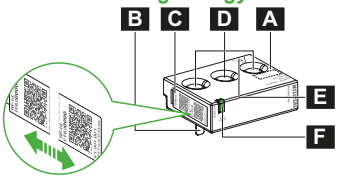
Failure to follow these instructions will result in death or serious injury.

Description

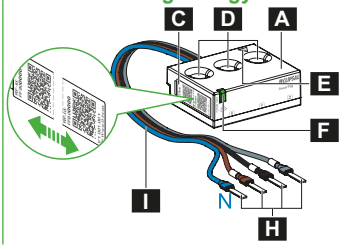
Wiser PowerTag Energy P63



Wiser PowerTag Energy M63



Wiser PowerTag Energy F63

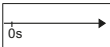
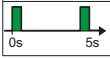


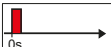
A	Current measurement module.
B	Power-supply and Voltage measurement connections.
C	Product label. The detachable adhesive part carries a unique product identifier RF-Id, usable during commissioning with Wiser Hub/ Controller
D	Conductor feedthroughs for current measurement.
E	⚠ Comply with all safety instructions associated with this symbol to avoid any potential risk of injury or death.
F	Wiser PowerTag Energy communication status indicator light.
G	Power-supply and voltage-measurement plate.
H	Power-supply and voltage measurement terminal. Neutral = Blue wire
I	Connection cable between the power-supply terminal and the current-measurement module.

Refer to the selection guide of Wiser PowerTag Energy devices with Resi MAX and MAX9.

Before proceeding with pairing, ensure that the Wiser Hub/Controller has the latest available software version.
Refer to the Wiser Home system user manual.

Communication indicator light

Wiser PowerTag Energy status	
	Wiser PowerTag Energy switched off.
	Wiser PowerTag Energy is searching for Wiser Hub / Controller.
	Wiser PowerTag Energy in identification mode.
	Wiser PowerTag Energy is in network. Normal communication with the Wiser Hub / Controller.

	Occasional loss of communication.
	Loss of communication with the Wiser Hub / Controller.
	Internal error detected.

Installation and connection

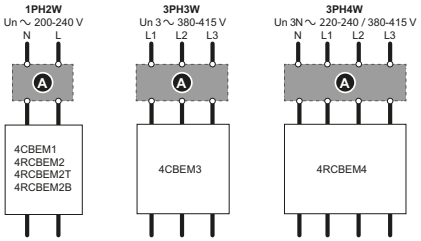
⚠ WARNING

FIRE HAZARD
Wiser PowerTag Energy M63:
- Use 18 mm cable end or strip over 18 mm to avoid tightening against the insulating material.
- Use cable end to connect the neutral wire of the 4CBEM1.

Wiser PowerTag Energy M63, F63 and P63:
- The Wiser PowerTag Energy must be associated with an easily accessible upstream protection and circuit-breaker system, marked with callout A in the schematic below.
- This upstream protection and disconnection device must be clearly identified and labeled. The electrical diagram is shown below.

Wiser PowerTag Energy F63:
The voltage measurement cables ends must be adapted to the terminals of the equipped product. The replacement of these cable ends are the responsibility of the professional installer.

Failure to follow these instructions can result in death, serious injury, or equipment damage.



NOTICE

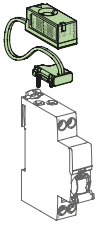
RISK OF DAMAGING THE WISER POWERTAG ENERGY
- Comply with the neutral position (Neutral = Blue wire).
- Disconnect the Wiser PowerTag Energy before performing the dielectric withstand test.
- Limit the insulation measurements up to 500 V ⎓. The input impedance of the Wiser PowerTag Energy between phases or between phases and the neutral is equal to 1,8 MΩ.

Failure to follow these instructions can result in equipment damage.

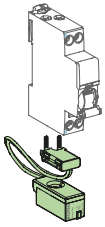
CYBERSECURITY HAZARD
Ensure controls are in place to prevent unauthorized access within range of wireless equipment.
Failure to follow these instructions can result in data breaches, service disruption or equipment damage.

Installation Wiser PowerTag Energy P63

4RCBEM2T - 1P+N
Un ∼ 200-240 V

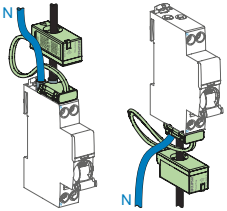


4RCBEM2B - 1P+N
Un ∼ 200-240 V



Connection Wiser PowerTag Energy P63

1P+N
Un ∼ 200-240 V

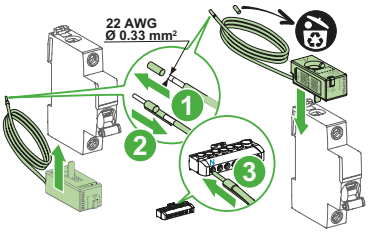


Installation and connection

Installation Wiser PowerTag Energy M63

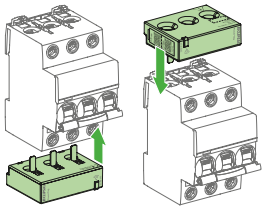
4CBEM1-1P

Un ∼ 200-240 V

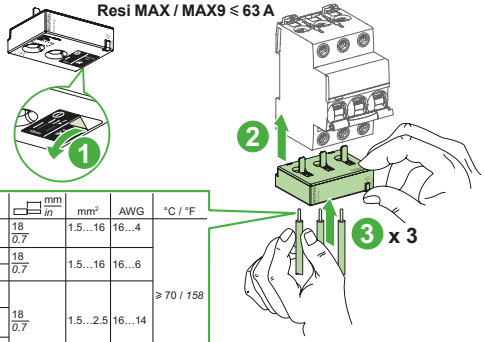


4CBEM3-3P

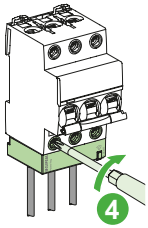
Un 3 ∼ 380-415 V

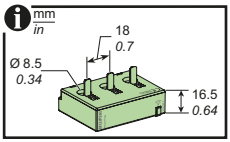


Connection Wiser PowerTag Energy M63



	mm / in	mm²	AWG	°C / °F
	18 / 0.7	1.5…16	16…4	⩾ 70 / 158
	18 / 0.7	1.5…16	16…6	
	18 / 0.7	1.5…2.5	16…14	



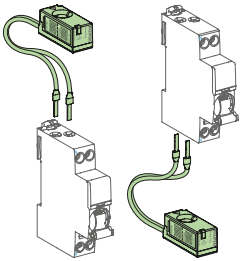


Installation and connection

Installation Wiser PowerTag Energy F63

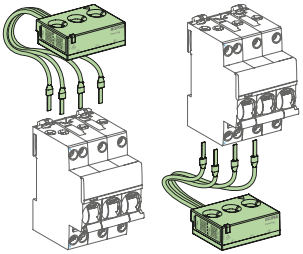
4RCBEM2 - 1P+N

Un ∼ 200-240 V



4RCBEM4 - 3P+N

Un 3N ∼ 220-240 / 380-415 V

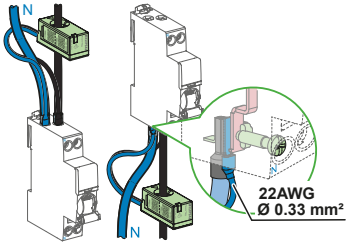


Installation and connection

Connection Wiser PowerTag Energy F63

1P+N - Un 230 V ∼

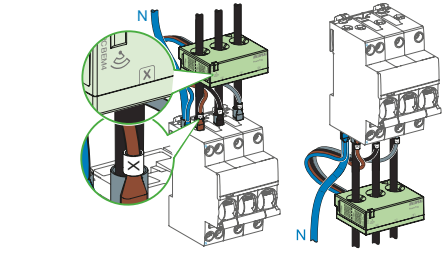
Un ∼ 200-240 V

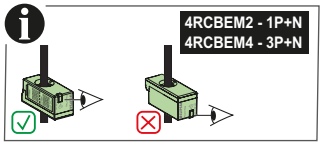


To adapt Wiser PowerTag Energy F63 to the different types of equipped product terminals, it is possible to replace the voltage measurement terminals by other cable ends for AWG22/0.33mm² wire.

3P+N - Un 230/400 V ∼

Un 3N ∼ 220-240 / 380-415 V





Note: That the current flow can be reversed in the app later anyway if needed.

Technical data

- Nominal voltage Un: ∼ 200-240 V, 3 ∼ 380-415 V or 3N ∼ 220-240 / 380-415 V
- Operating range (power supply and voltage measurement inputs): Un ± 20%
- Frequency: 50/60 Hz
- Maximum power consumption: ⩽ 1 VA (1P+N) ; ⩽ 2 VA (3P+N)
- Maximum current: 63 A
- Basic current (Ib): 10 A
- Operating temperature: -25°C to +60°C / -13°F to +140°F
- Overvoltage and measurement category: III
- Supports temporary surges relative to the ground
- Pollution degree: 3
- Altitude: ⩽ 2000 m / 6500 ft
- Relative humidity: Maximum 93 % without condensation
- Impact resistance index: IK05
- For indoor use only
- Radio communication:
  - 2.4 GHz ISM band (2400 MHz to 2483.5 MHz)
  - Channels 11 to 26 (IEEE 802.15.4)
  - Max. transmitted RF power: ⩽ 10 mW (EIRP)
- Accuracy:
  - Voltage: Class 0.5
  - Current, Power and Active Energy: Class 1
- Electromagnetic Compatibility (EMC): IEC 61326-1 Residential Environment

Symbols printed on the product

	Comply with all safety instructions accompanying this symbol to avoid any potential risk of injury or death.
	Alternating current
	Radio communication
CE	CE marking on product(s) or its (their) packaging indicates that Schneider Electric makes available to the EU authorities the reference technical file(s).
	This product is an electrical and electronic device. It falls within the scope of the WEEE 2012/19/EU directive. On the EU market, it must be disposed of using a specific waste collection system and never be disposed of in a household waste bin.
	The Regulatory Compliance Mark (RCM) symbol indicates this product is safe to use in New Zealand and Australia because it meets electrical safety, electromagnetic compatibility (EMC), and radiocommunications requirements.

Electrical hazard	Installation by qualified electricians only	Disconnect before installation

Schneider Electric (Australia) Pty Ltd
33-37 Port Wakefield Road
Gepps Cross
South Australia 5094

Customer Care Centre
Tel: 1300 369 233
Email: customercare.au@schneider-electric.com
Tel: 137328
Email: customercare.au@se.com
www.clipsal.com

clipsal.com

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