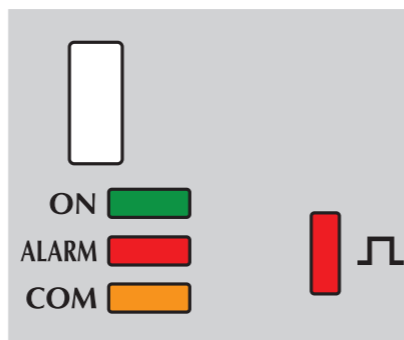


Electrical characteristics (Auxiliary power supply)	
AC voltage	110-230 VAC ±15 % (Ph/N ou Ph/Ph) Cat III
Frequency	50/60 Hz
Consumption	< 2 VA without display < 6.3VA with display
Connection	Removable spring-cage terminal, 2 x 2 positions, 0.5 ... 2.5 mm <sup>2</sup> solid cable or 0.25 ... 1.5 mm <sup>2</sup> stranded cable with ferrule
Communication characteristics	
Link	Wireless
Protocol	LoRaWAN
Bandwidth	863 - 870 MHz
Use	Europe
Port	2
Class	Class C
Power Level	14 dBm
Version	1.0.3
Spreading Factor	SF7 to SF12
Activation Method	OTAA

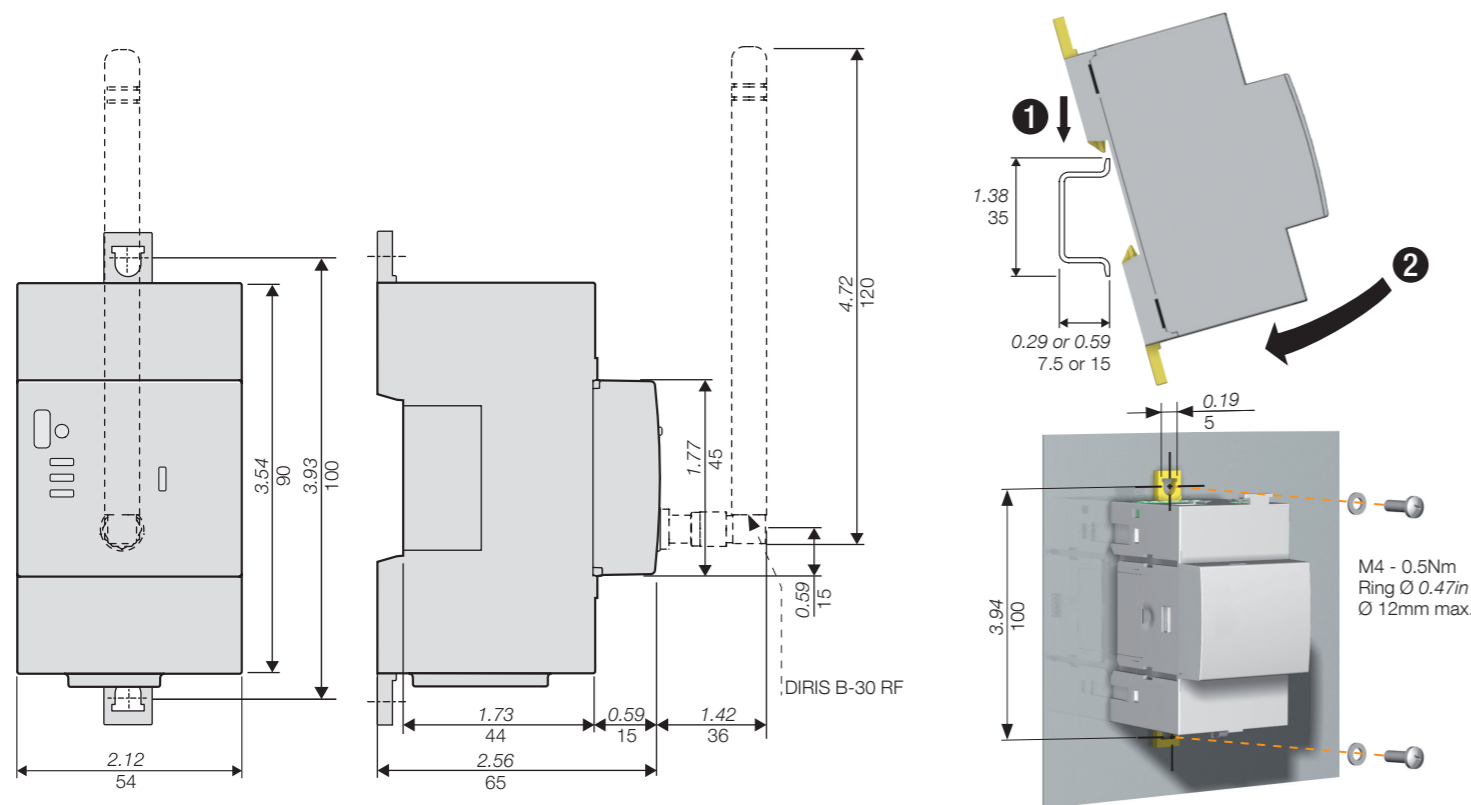
USB	
Type	USB 2
Protocol	Modbus RTU over USB
Function	- Firmware upgrade via Product Upgrade Tool software - Configuration via Eay Config System software
Connection	Type B micro USB connector
Environmental characteristics	
Operating temperature	-10 ... +70 °C
Storage temperature	-25 ... +85 °C
Operating humidity	55 °C / 97% relative humidity
Operating altitude	≤ 2000 m
Vibration	1G from 10 to 100Hz
Measurement accuracy	
Standard	According to IEC 61557-12 PMD DD classification in association with specific current sensors (TE, TR /TR, TF)
Active energy and active power accuracy	Class 0.2 (DIRIS B-10L alone) Class 0.5 with TE, iTR and TF sensors Class 1 with TR sensors

9 LEDs

LED	OFF	FLASHING	STABLE
<b>ON (Green)</b>	Device is off	- 10 sec during startup - Manual blinking command	Product ON
<b>ALARM (Red)</b>	No active alarm	System alarm active on a device	-
<b>COM (Orange)</b>	LoRa card not started or not connected to LoRa network	LoRa card is pairing	LoRa card is connected and operational
<b>(Red)</b>	No energy flowing	Energy is flowing (corresponds to the metrological pulse weight)	-



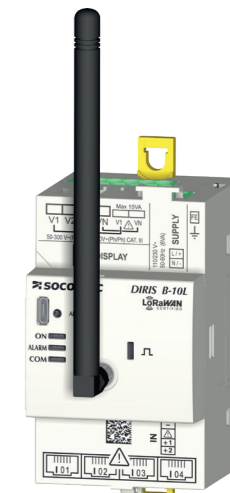
Dimensions in/mm



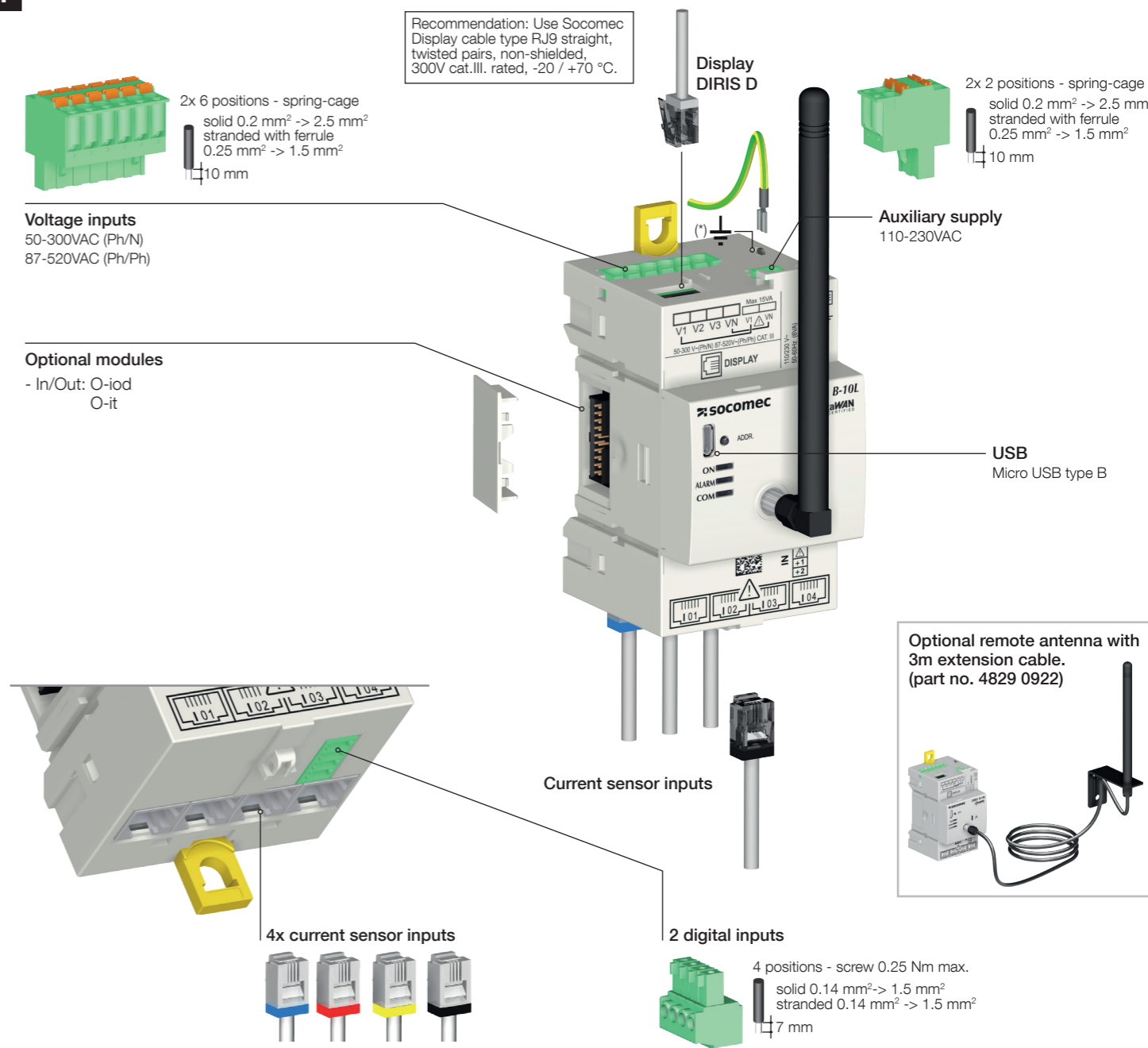
Power Monitoring Device with wireless LoRaWAN communication  
**DIRIS B-10L**



DIRIS B-10L  
Ref. 4829 0900



1



(\*) Do not forget to connect earth to the DIRIS B-10 LoRa.



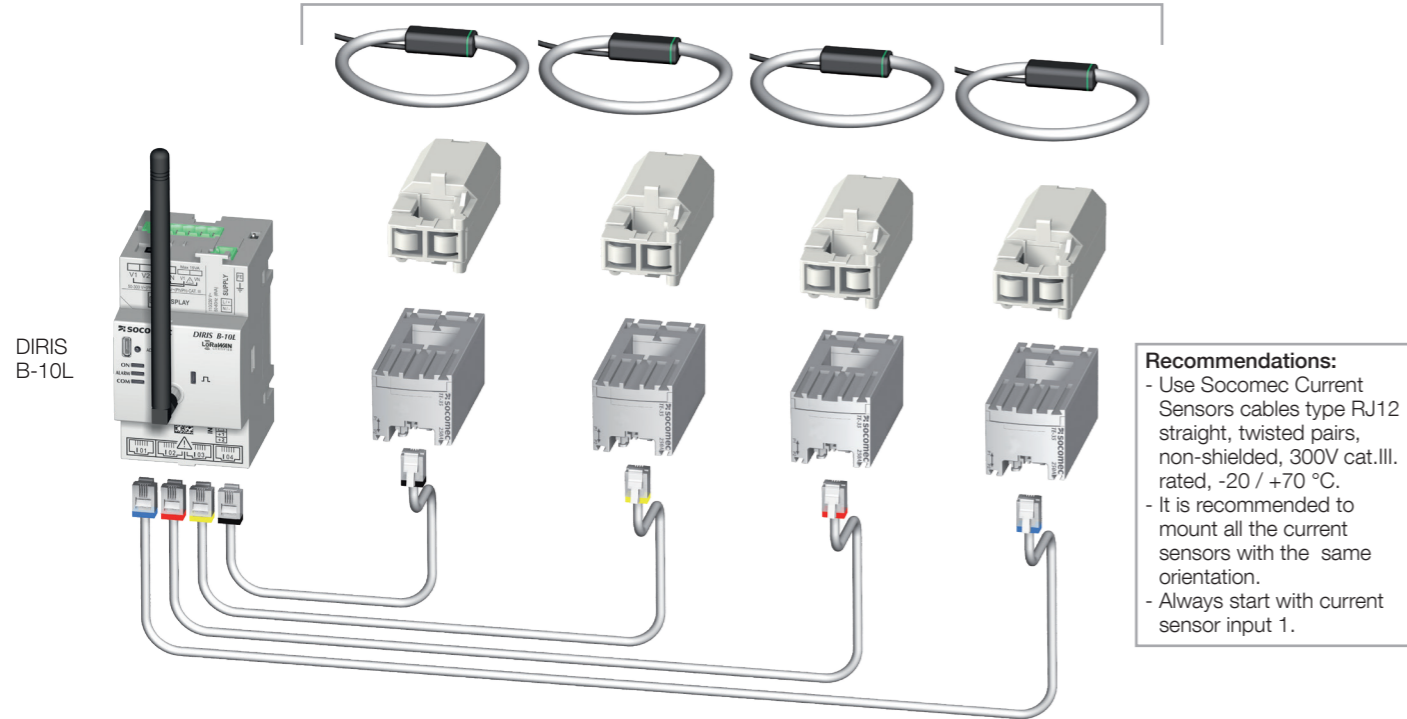
## 2 LoRa Key Recovery

- Go to [www.socomec.com/activate-lora-product/](http://www.socomec.com/activate-lora-product/) or flash the following QR code
- Fill in the form
- Retrieve your LoRa Keys



## 3 Current sensors

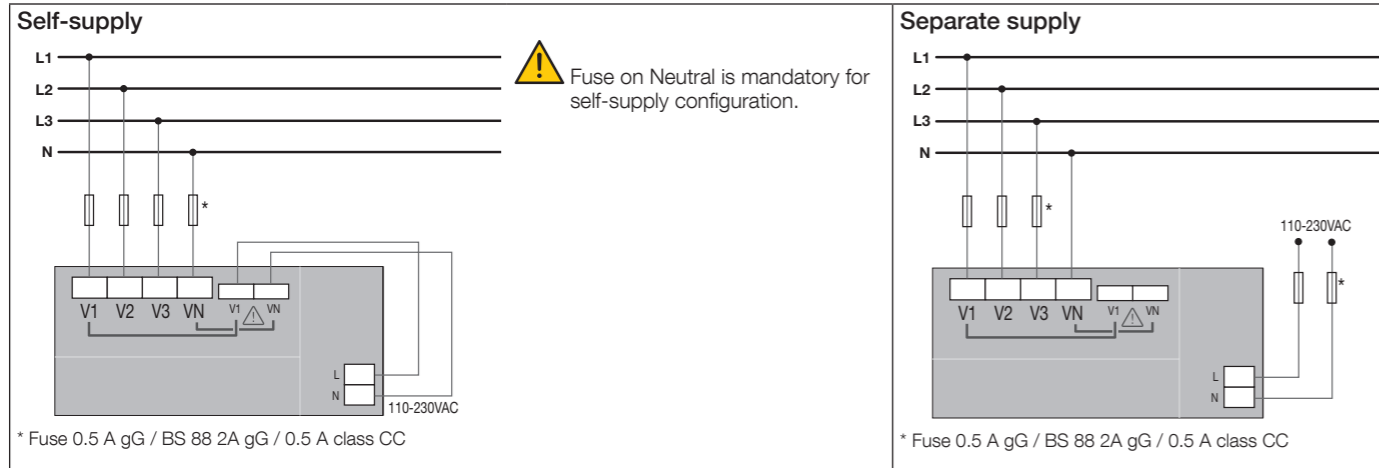
Current sensors TE / TR/ITR / TF



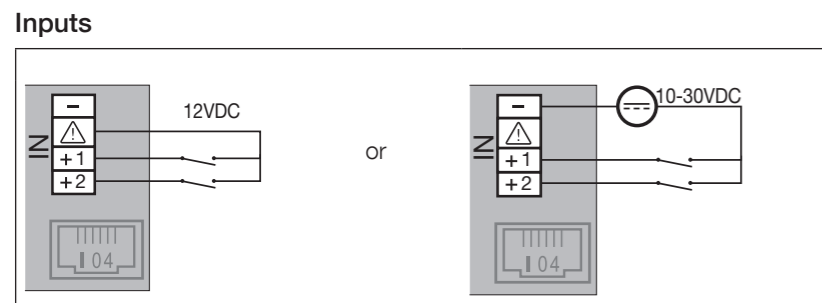
**Recommendations:**

- Use Socomec Current Sensors cables type RJ12 straight, twisted pairs, non-shielded, 300V cat.III, rated, -20 / +70 °C.
- It is recommended to mount all the current sensors with the same orientation.
- Always start with current sensor input 1.

## 4 Auxiliary supply



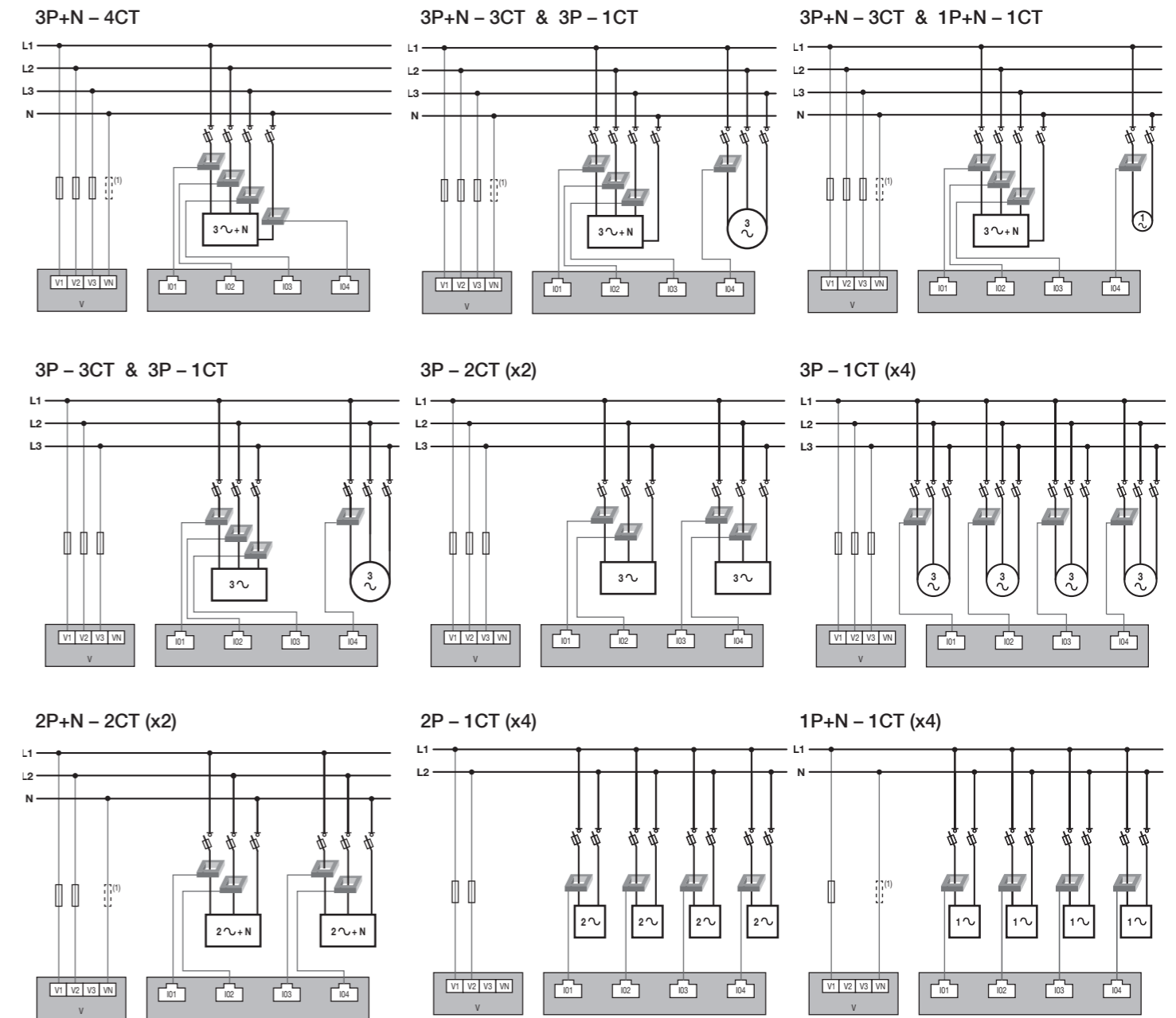
## 5 Auxiliary supply



## 6 Main network connections and loads

(1) See step 4  
Each current input setting is individual, see below some examples:

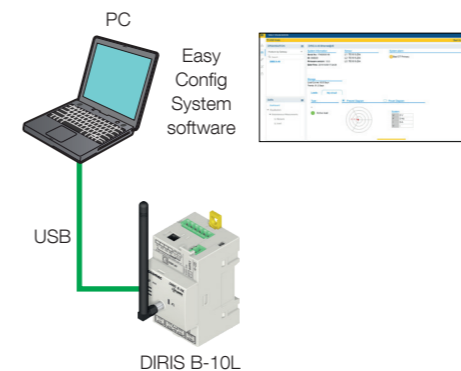
CT = Current sensor  
 = Balanced load  
 = Unbalanced load  
 Fuse 0.5 A gG / BS 88 2A gG / 0.5 A class CC



## 7 Configuration

Easy Config System software

USB



DIRIS D-30 display

RJ9

