

IS275 Rev.00 10/10/2023

BI/BCHP

Scheda caricabatterie per CTRL

Istruzioni originali



IT - Istruzioni ed avvertenze per l'installatore

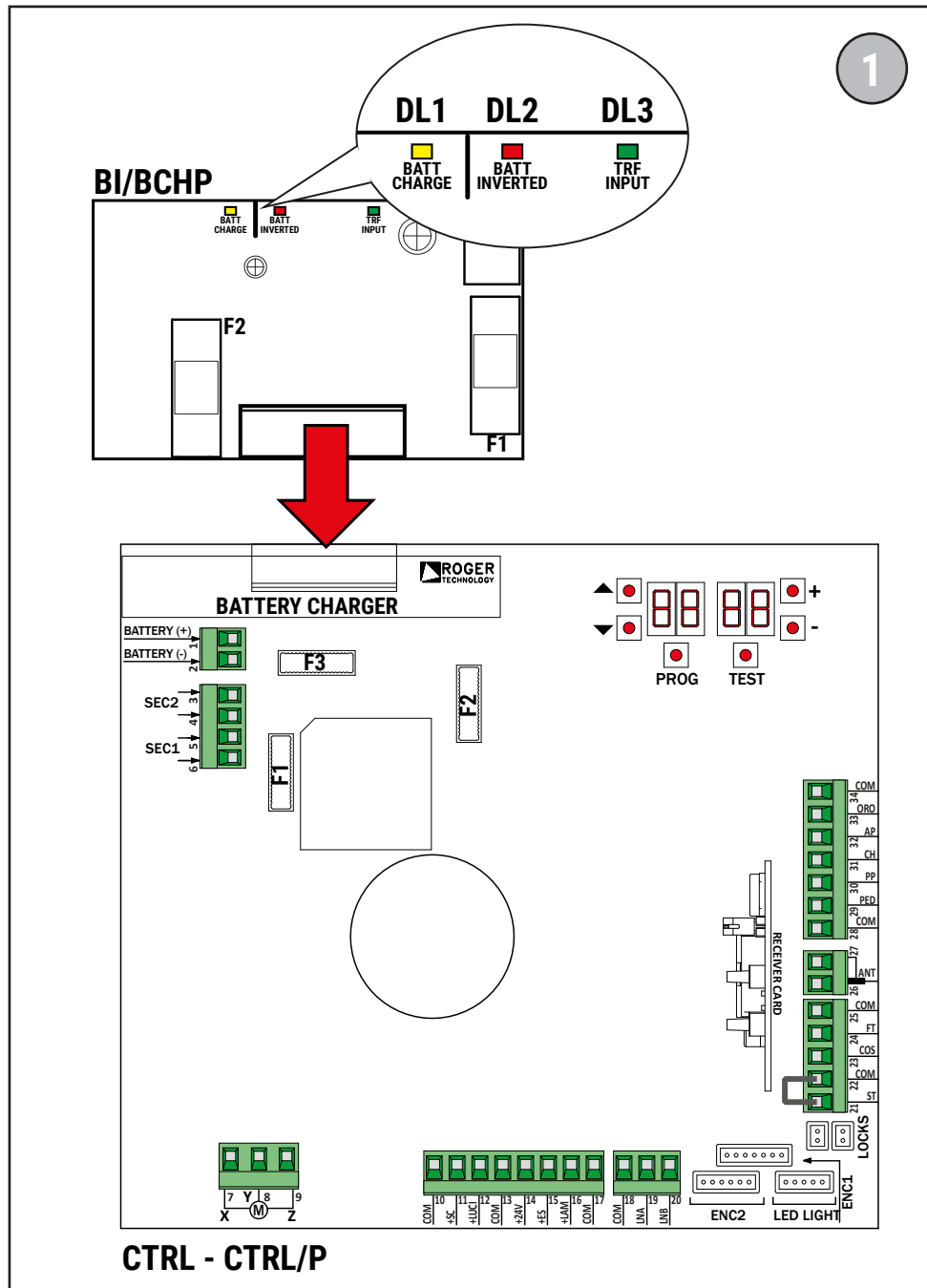
EN - Instructions and warnings for the installer

DE - Anweisungen und Hinweise für den Installateur

FR - Instructions et consignes pour l'installateur

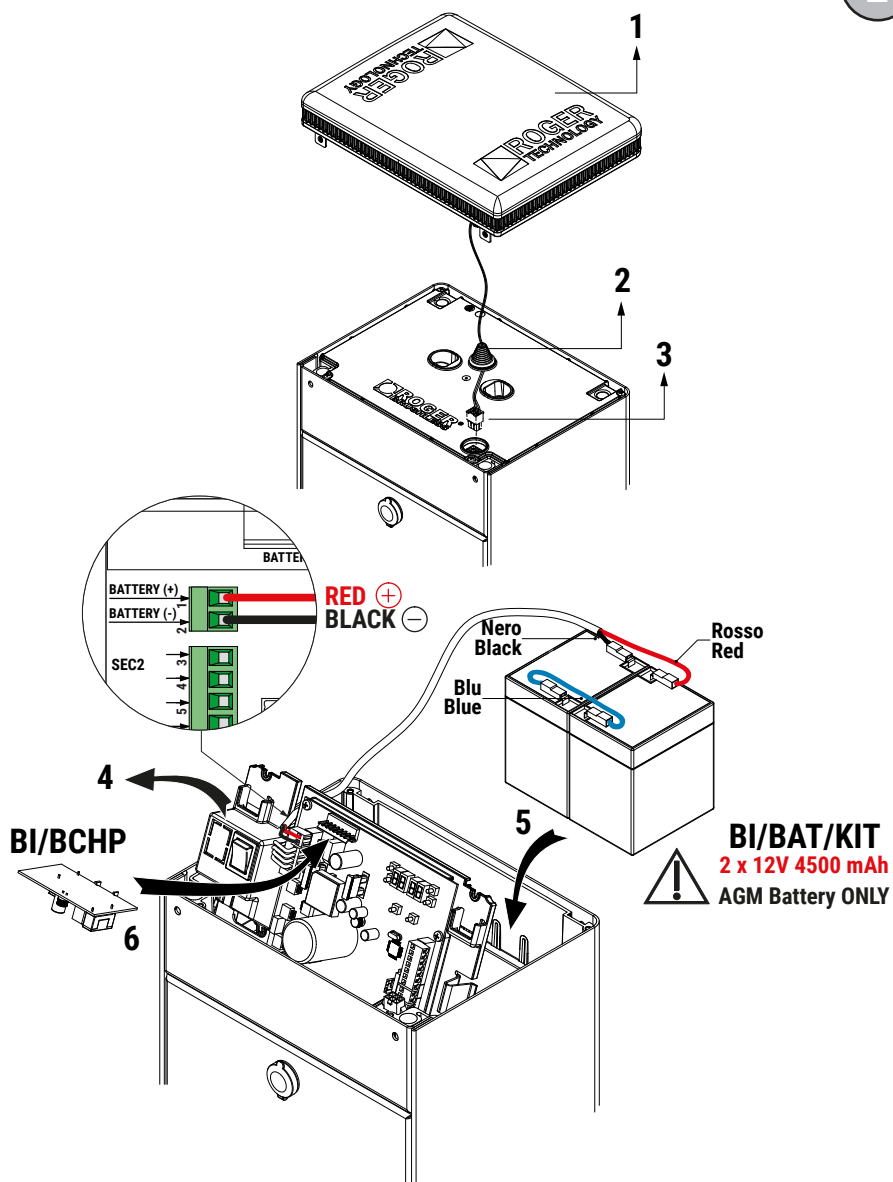
ES - Instrucciones y advertencias para el instalador

PT - Instruções e advertências para o instalador



BIONIK - CTRL - BI/BAT/KIT

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1 General safety precautions



Warning: incorrect installation may cause severe damage or injury. Read the instructions carefully before installing the product.

This installation manual is intended for qualified personnel only. ROGER TECHNOLOGY cannot be held responsible for any damage or injury due to improper use or any use other than the intended usage indicated in this manual.

Installation, electrical connections and adjustments must be performed by qualified personnel, in accordance with best practices and in compliance with applicable regulations.

Before installing the product, make sure it is in perfect condition.

Disconnect the mains electrical power before performing any work. Only use original spare parts when repairing or replacing products.

The packaging materials (plastic, polystyrene, etc.) should not be discarded in the environment or left within reach of children, as they are a potential source of danger.

2 Symbols

The symbols and their meaning in the manual or on the product label are indicated below.

	Generic danger Important safety information. Indicates operations and situations in which the personnel involved must pay close attention.
	Refer to the Installation and use instructions Indicates the obligation to refer to the manual or original document, which must be available for future use and must not be damaged in any way.
	Indicates the admissible temperature range.
	Direct current (DC)
	Symbol for the product disposal according to the WEEE directive.

3 Product description

The **BI/BCHP** battery charger board may be used to charge two 12V --- 4500 mAh lead acid batteries connected in series.

In the event of mains power loss, the battery charger provides auxiliary power to the control unit (**CTRL - CTRL/P**).

The battery kit, complete with the battery charger board, wiring and two 12V --- 4500 mAh batteries, available for the BIONIK batteries is **BI/BAT/KIT**.

4 Technical characteristics

MAINS POWER VOLTAGE	36V ---
MAXIMUM POWER ABSORPTION	15 W
LEAD ACID BATTERIES	2x12V --- 4500 mAh

FUSES	F1 = F2A (5x20 rapid) power circuit protection F2 = F10A (5x20 rapid) battery charger output protection
NOMINAL CHARGING VOLTAGE	27,6V ---
MINIMUM BATTERY VOLTAGE FOR SELF-PROTECTION	19,5V ---
CHARGE CURRENT	400 mA
OPERATING TEMPERATURE	-20°C +55°C
DEGREE OF PROTECTION	IP00
DIMENSIONS BI/BCHP	83x52x18 Weight 38g

5 Electrical connections for BI/BAT/KIT (fig. 2)

With the unit disconnected from mains power:

- Remove the barrier (1) head. Lift the fairlead (2) and remove the connector (3).
- Lift the central cover and the control unit (4).
- Insert the batteries inside their housing (5).
- Remove the Faston connector from the positive (+) battery terminal.
- Connect the batteries to the control unit:
- Connect the red cable to the **BATTERY (+)** terminal of the control unit.
- Connect the black cable to the **BATTERY (-)** terminal of the control unit.
- Reconnect the Faston connector to the battery terminal (+) of the battery.
- Insert the battery charger in the **BATTERY CHARGER** (6) connector of the control unit.



For further information see the manual of the control unit (CTRL o CTRL/P)

6 Alerts

LED		ON	OFF
DL1	yellow	Batteries charging. If the LED remains lit even after charging for a few days, consider changing the batteries.	/
DL2	red	Incorrect battery connection. Circuit breaker tripped. Identify the cause and rectify the problem immediately.	/
DL3	green	Mains power present.	Mains power absent.

7 Functioning

When mains power is available (green LED **DL3** lit), the circuit delivers a minimal current to the batteries to keep them charged.

The yellow LED **DL1** lights when the **BI/BCHP** is charging the batteries.

N.B.: if charged batteries are disconnected briefly and reconnected, the yellow LED **DL1** may light temporarily.

If there is no mains power (LED **DL3** off) and the battery

voltage drops below the safety threshold, the battery charger automatically disconnects the batteries from the control unit.

N.B.: in the event of prolonged periods with no mains power, we recommend disconnecting the positive terminal (+) (red wire) from the battery circuit to prevent battery damage.

The red LED **DL2** lights to indicate a battery connection error. As in this situation the circuit is disconnected by the circuit breaker, it is imperative that the fault is identified and the problem rectified immediately.

8 Initial testing

Disconnect from the mains power supply. The LED **DL3** should extinguish.

Perform a complete open manoeuvre and a complete close manoeuvre and check that the installation functions correctly under battery power.

Reconnect to mains power and check that the LEDs **DL1** and **DL3** illuminate.

9 Maintenance

Perform scheduled maintenance every 6 months. Check cleanliness and function.

If the unit contains dirt, moisture, insects or other foreign matter, disconnect from mains power and clean the board and the housing.

Repeat the initial installation test procedure after cleaning.

If any corrosion is found on the printed circuit board, evaluate if it is necessary to replace the board itself.

Check battery charge by performing a complete open/close manoeuvre and measuring the output voltage from the batteries.

A battery pack in good condition must maintain a minimum voltage of at least 22V $\overline{\text{---}}$.

Replace the batteries at least every 3 years.

10 Disposal



This product may only be uninstalled by qualified technical personnel, following suitable procedures for removing the product correctly and safely. This product consists of numerous different materials. Some of these materials may be recycled, while others must be disposed of correctly at the specific recycling or waste management facilities indicated by local legislation applicable for this category of product.

Do not dispose of this product as domestic refuse. Observe local legislation for differentiated refuse collection, or hand the product over to the vendor when purchasing an equivalent new product.

Local legislation may envisage severe fines for the incorrect disposal of this product.

Warning! Some parts of this product may contain substances that are harmful to the environment or dangerous and which may cause damage to the environment or health risks if disposed of incorrectly.

11 Additional information and contact details

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12 Declaration of Conformity

I the undersigned, as acting legal representative of the manufacturer

Roger Technology - Via Botticelli 8, 31021 Bonisiolo di Mogliano V.to (TV)

hereby DECLARE that the appliance described below:

Description: Battery and battery charger

Model: **BI/BCHP**

Is conformant with the legal requisites of the following directives:

- 2014/35/UE;
- 2014/30/UE;
- 2011/65/UE

and that all the standards and/or technical requirements indicated as follows have been applied:

EN 61000-6-3;
EN 61000-6-2;
EN 60335-1

Place: Mogliano V.to

Date: 24-03-2017

Signature



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