


ENGLISH

## IMPORTANT

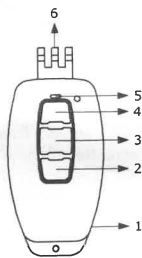
Read this document thoroughly before use of the device and follow all additional information; keep this document with the device for future consultation.

Only use the device in the way described in this document.

 **The device must be disposed of in compliance with local standards regarding the collection of electric and electronic equipment.**

## 1 DESCRIPTION

### 1.1 Description

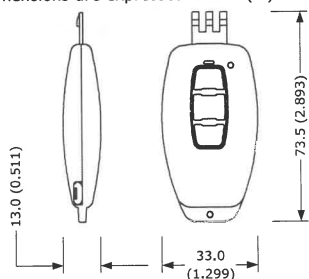


Part	Meaning
1	USB port
2	not used
3	enter button
4	clone button
5	signal LED
6	connector

## 2 DIMENSIONS

### 2.1 Dimensions

Dimensions are expressed in mm (in).



## 3 USE OF THE PROGRAMMING KEY

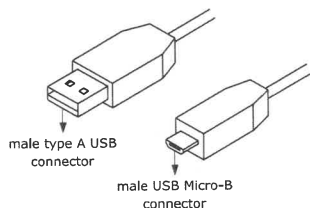
### 3.1 Preliminary information

The programming key can be used with controllers belonging to the EV3X/B/2/3/7 series; it allows to copy the value of configuration parameters (hereinafter called "settings") from the controller to the key (hereinafter called "upload") and vice versa (hereinafter called "download").

The upload and the download take 10 s at most; if in this time the programming key does not signal the procedure has successfully been completed (or the signal LED stops showing red light flashing to show green light firmly 1 s), it will be necessary to repeat it.

The download is allowed on condition that the firmware of the controller of origin and that of the controller of destination is the same; if this condition is not true, the programming key will signal the procedure has not successfully been completed (or the signal LED stops showing red light flashing to show red light firmly 1 s).

The programming key has not one's own power supply and must be powered using the USB port; make sure to have a Personal Computer with a free USB port not used by any program (or an USB power supply) and a male type A USB/male Micro-B USB cable (hereinafter called "USB cable").



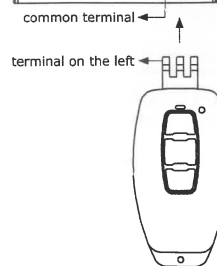
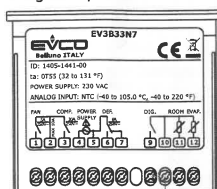
### 3.2 Additional information

- make sure that the device work conditions (operating temperature, operating humidity, ecc.) lie within the limits indicated; see chapter 5
- do not operate on the controller terminal blocks using electrical or pneumatic screws

- if the controller has fixed screw connection terminal blocks, never screw the screw connectors to connect the programming key
- if the device has been taken from a cold to hot place, humidity could condense inside; wait about one hour before powering it
- for repairs and information regarding the device contact the EVCO sales network.

### 3.3 Upload (copying the settings from the controller to the programming key)

1. Make sure the controller is not powered.
2. If the controller has removable screw connection terminal blocks, unscrew at the maximum opening the screw connectors of the analog and digital inputs of the controller terminal block and remove possible cables previously wired.
3. Put to the bottom the connector of the programming key in the connectors of the analog and digital inputs of the controller terminal block paying attention the terminal on the left of the programming key connector coincides with the common terminal of the controller analog and digital inputs.



4. If the controller has removable screw connection terminal blocks, screw the screw connectors of the analog and digital inputs of the controller terminal block moderating the clamping the most possible.
5. Connect one end of the USB cable to the USB port of the programming key.
6. Connect the other end of the USB cable to the USB port of the Personal Computer (or to the USB port of the USB power supply; in this case also put the plug of the USB power supply in a socket).
7. Press and hold 1 s the programming button of the programming key: the signal LED will show red light firmly 1 s.
8. Press and release the enter button of the programming key when the signal LED shows red light flashing a few seconds, after which will show green light firmly 1 s.
9. Disconnect the ends of the USB cable.
10. If the controller has fixed screw connection terminal blocks, remove the programming key; if the controller has removable screw connection terminal blocks, remove the controller terminal block.

### 3.4 Download (copying the settings from the programming key to the controller)

1. After step 6. of the procedure related in paragraph 3.3, press and release the programming button of the programming key: the signal LED shows red light flashing a few seconds, after which shows green light firmly 1 s.
2. Repeat steps 9., 10. and 11. of the procedure related in paragraph 3.3.

## 4 USE OF THE PROGRAMMING KEY AS PROGRAMMING TOOL

### 4.1 Preliminary information

The programming key can be used with controllers belonging to the EV3X series and to the EV3B series as programming tool as well; it allows to gain access to the information about the programming key and about the controller using the Parameters Manager software set-up system.

Make sure to have a Personal Computer with Parameters Manager installed, with a free USB port not used by any program and a male type A USB/male Micro-B USB cable (hereinafter called "USB cable").

## 4.2 Access to the information about the programming key and about the controller

1. After step 6. of the procedure related in paragraph 3.3, start Parameters Manager; in the dialog windows about the serial connection settings use:
  - 247 as device address to gain access to the information about the controller
  - 248 as device address to gain access to the information about the settings copied from the programming key to the controller
  - 249 as device address to gain access to the information about the programming key
2. In the end, repeat steps 9., 10. and 11. of the procedure related in paragraph 3.3.

## 5 TECHNICAL DATA

### 5.1 Technical data

**Box:** black self-extinguishing.

**Dimensions:** 33.0 x 73.5 x 13.0 (1.299 x 2.893 x 0.511 in; W x H x D).

**Degree of protection:** IP40.

**Connections:** female Micro-B USB connector.

**Operating temperature:** from 0 to 55 °C (from 32 to 131 °F).

**Storage temperature:** from -25 to 70 °C (from -13 to 158 °F).

**Operating humidity:** from 10 to 90% of relative humidity not condensing.

**Control pollution situation:** 2.

**Environmental conformity:**

- RoHS 2011/65/CE
- WEEE 2012/19/EU
- REACH regulation (CE) n. 1907/2006.

**EMC conformity:**

- EN 60730-1
- IEC 60730-1.

**Power supply:** USB power supply.


**Class and structure of software:** A.

**Displays:** bicolor LED.

## ITALIANO

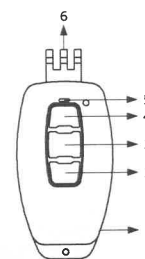
### IMPORTANTE

Leggere attentamente questo documento prima dell'uso del dispositivo e seguire tutte le avvertenze; conservare questo documento con il dispositivo per consultazioni future. Utilizzare il dispositivo solo nelle modalità descritte in questo documento.

 **Il dispositivo deve essere smaltito secondo le normative locali in merito alla raccolta delle apparecchiature elettriche ed elettroniche.**

## DESCRIZIONE

### 1.1 Descrizione



Parte	Significato
1	porta USB
2	non utilizzato
3	tasto invio
4	tasto clonazione
5	LED di segnalazione
6	connettore

## 2 DIMENSIONI

### 2.1 Dimensioni

Si veda il disegno del paragrafo 2.1 della sezione in lingua Inglese.

Le dimensioni sono espresse in mm (in).