



GP USB Secure Blocker

G.P. Tecno S.r.l.

☎ 011 31 71 901 / 011 31 73 202

✉ info@gptecno.it

🌐 gptecno.it

📍 Via Albenga 20 - 10134 Torino



General description of the User Guide

GP USB Secure Blocker is an industrial security device designed to protect USB interface from unauthorized access, tampering, and cyber threats.

Installed between the machine controller (PLC or IPC) and the communication port, it keeps interfaces disabled by default and allows activation only by authorized personnel through a PLC, key switch, or RFID system.

The product provides secure and controlled access to data connections, clear status indication through a multicolor LED ring, and easy integration into new or existing machines.

With its modular design, it enhances operational security while supporting compliance with the Cyber Resilience Act (CRA) and the EU Machinery Regulation 2027.

Package contents and Packaging

The product is supplied in packaging designed to provide maximum protection during transport, handling, and storage. All components are arranged to prevent impacts, vibration exposure, or accidental damage.

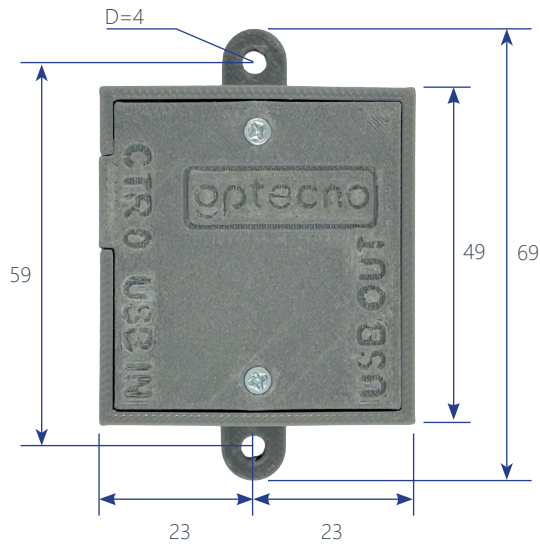
The package shall include the following items:

- **GP USB Secure Blocker** main unit, protected by an anti-static bag and cushioned with shock-absorbing materials.
- Removable 2 poles terminal block
- Essential technical documentation, including the EU Declaration of Conformity (if provided in printed form) or instructions for downloading the digital version.

The device is shipped in a high-strength cardboard box with molded protective foam inserts to ensure stability and impact resistance during transportation. All packaging materials are fully recyclable in accordance with applicable regulations; users are encouraged to dispose of them responsibly.

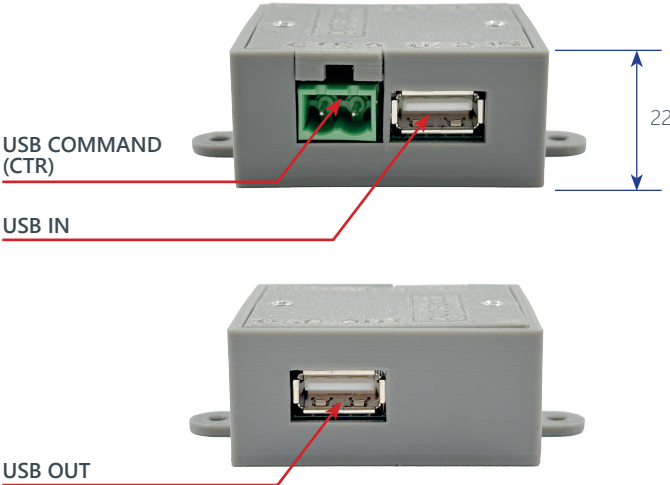
Mechanical Drawings

Top view



quotes in mm

Side views



Preliminary Rules for Proper Use

Before operating the GP USB Secure Blocker, the user must ensure that all environmental and operational conditions are met to guarantee system safety, reliability, and long-term performance.

Environmental and Operating Conditions

- Operative temperature: **-30°C to +70°C**.
- Humidity up to **95% non-condensing**.

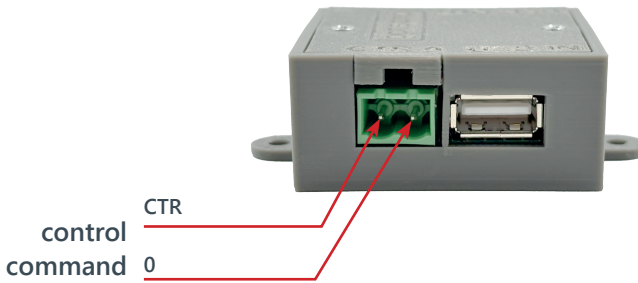
Avoid exposing the device to liquids, high-temperature sources, corrosive atmospheres, or excessive vibration.

USB control

The USB enable/disable function is controlled by a command provided through the 2-pin connector. The following indications are shown on the cover:

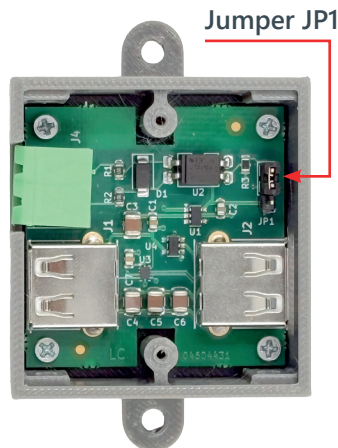
- **CTR** = 12 ÷ 30 VDC control signal - max. 10 mA
- **0** = 0 Volt

If CTR is between 12 and 30 Volts, the USB output signal is enabled.
In the event of reverse polarity, the device will not be damaged.



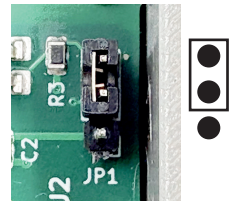
USB Power Supply

It is possible to force the USB output power supply independently of the enable control command (CTR) by changing the position of jumper **JP1** inside the device, after removing the cover by unscrewing the two retaining screws.

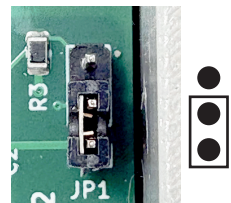


Jumper JP1

JP1 jumper in the upper position:
The presence or absence of the USB output power supply is determined by the CTR control command.



JP1 jumper in the lower position:
The USB output power supply is always present, regardless the CTR control command.



Warranty and After-Sales Support

Warranty

G.P. Tecno Srl provides a 12-month warranty on its products, starting from the date the goods leave the company warehouse, unless otherwise agreed.

The warranty covers:

- repair or, at the manufacturer's discretion, replacement of non-functioning parts;
- interventions performed at G.P. Tecno Srl headquarters;
- defects caused by faulty materials or manufacturing issues.

The warranty does not cover:

- tampered or improperly opened devices;
- missing, altered, or damaged components;
- repairs carried out by unauthorized personnel;
- devices without the original identification label;
- damage caused by improper use, incorrect installation, overvoltage, wiring errors, or non-compliant environmental conditions.

If a defect is confirmed as eligible for warranty: G.P. Tecno Srl will repair or replace the defective unit.

G.P. Tecno Srl cannot be held liable for:

- direct or indirect damages (e.g., production downtime, loss of revenue, operational interruption);
- costs incurred by the customer for product return or replacement;
- any damage resulting from the use of the device.

The company is exempt from liability for any damage, direct or indirect, caused by the use of the product outside its intended conditions.

After-Sales Support

G.P. Tecno Srl provides technical support even after the warranty period, at its sole discretion, and within the limits of:

- product repairability;
- availability of spare parts;
- physical condition of the returned unit.

After-sales support may be requested for:

- accidental damage;
- improper use;
- technical checks or component replacement.

Support Request Procedure

- 1) The customer contacts G.P. Tecno Srl via email or telephone.
- 2) A Return Material Authorization (RMA) form is issued.
- 3) Once approved, the customer receives instructions for returning the device.
- 4) The unit must be shipped using adequate protective packaging.
- 5) The technical department evaluates the device and performs the required service.

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