RGB680H – LED traffic strip

Compatible with “L” and “S” profiles (ex. B680H)
Installation and use manual





1. General description

RGB680H is a red, green and yellow LED strip for signaling, compatible with the L and S profiles of the B680H bar. The change of color is managed by external commands, according to the installation’s needs.

The LED strip is powered by 24 Vdc and can be shortened along the predetermined cutting sites, placed every 100mm.

2. Technical features

Feature	Description		Feature	Description
Power supply	24 Vdc		Wiring	3 wires; common positive
Power	10 W/m		Cutting site spacing	100 mm
LED	RGB – 60 LED/m		Reel length	13 m
Colors	Red, Green and Yellow		Degree of protection	IP65

3. General warnings for installation and safety

The product must be used exclusively for its intended purpose. Ab Tecno srl does not answer for any damage caused by improper use, installation or nonprofessional applications. Any installation, connection, testing and maintenance must be entrusted to qualified personnel. Before any intervention, unplug the power supply from the strip and the automation to avoid any accidental movements of the bar.
The strip is exclusively powered by 24 Vdc, according to polarity. Never connect this product directly to the power grid.
Do not damage, compress or extend the strip and cables. Cut exclusively in the designed sites and close the cut extremity with appropriate caulk.
This luminous signaling does not substitute the automation’s safety devices. The colors’ meaning must be coherent with the installation’s logic.
Keep packing materials and other components out of reach from children. Dispose of the materials according to your local regulations.

4. Dimensions and kit content

APE-244/0950 kit includes:

- 1 13m LED strip reel, with power cables on both ends (img. 1).
- 7 2m opal satin plastic profiles for covering the cables (Fig.2).



Img. 1 LED strip reel

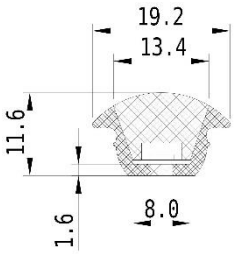


Img. 2 Profile cover

The strip’s length must be adapted to the bar, by cutting it respecting the minimum spacing of the cutting sites (100mm). The covering profiles must be adapted to the necessary length.

5. Note for the installer

Verity the mechanical compatibility with the bar and the availability of 24 Vdc power supply suitable for the length installed. The declared power is 10W per every meter of strip. Check also the command devices’ capacity and the cables’ suitability. Protect the connections and extremities of the strip from water and humidity. Place the cables in such a way that they don’t interfere with the bar’s movement and are not subjected to tension or compressions.



Img. 1 Strip dimensions

AB Tecno srl – Via Cicogna 95 – 40068,
S. Lazzaro di Savena (BO) – 051/6259580
info@abtecno.com www.abtecno.com

6. Mechanical installation

1. Unplug the power supply and place the bar in a safe position, avoiding accidental movement.
2. Verify that the installation site is clean, free from debris and smooth, as to not damage the strip or its cables.
3. Measure the necessary length and identify the appropriate cutting site on the strip. Do not cut in intermediate positions.
4. If necessary, shorten the strip using suitable tools, without damage to the surrounding components.
5. Safely close the cut extremity with caulk suitable for the material and the intended use. Wait for the time necessary for the caulk to solidify, following the instructions of its manufacturer.
6. Insert the strip in the correct site on the bar, without forcing, twisting or compressing it. Lay down the cables towards the connection point.
7. Place the covering profiles in their places, checking their correct mounting and avoiding any interference.
8. verify that strip, coverings and wiring are stable before restoring the power.

PAY ATTENTION TO THE CUTTING: 100 mm is the correct spacing between the designed cutting sites: always refer to the signs on the strip itself. After cutting, don't leave the internal parts of the casing or the contacts exposed. If needed, close them with caulk designed for electrical and electronical work.

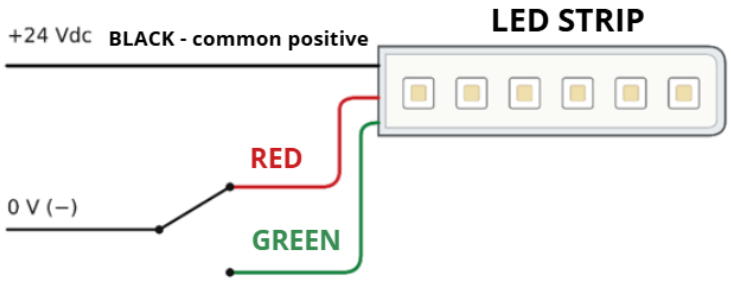
7. Electrical connections

Make the connections exclusively while the device is unplugged. The strip must be powered by 24 Vdc and has three wires:
- Black: common positive, connect to the +24 Vdc on the power source;
- Red: red light command, it turns on by connecting this wire to the 0 V (negative);
- Green: green light command, it turns on by connecting this wire to the 0 V (negative).

By connecting both the red and green wires to the 0 V (negative), you'll get a yellow light.

The choice of a command device and its connections to the rest of the installation are delegated to the installer, who must check their electrical compatibility and capacity, according to the length of the strip installed.

Use suitable cables and create stable connections, appropriately insulated and protected from water and humidity.
Before restoring power, check for the correct polarity and absence of short circuit. Once the connections are completed, verify that both colors turn on and for the correct response to commands, according to the installation's logic.



8. User information

Use this product exclusively as a luminous signal for the installation. Routinely check its correct functioning and refer to an installer any points that are turned off, of the wrong color or damaged.
Do not open, modify or try to repair the strip. Entrust any technical intervention to qualified personnel.
Clean the external parts of the device while it's unplugged and the bar is in a safe position. Use a soft, dry or slightly moist cloth; avoid solvents, aggressive soaps and direct water jets.
Do not cover the luminous surfaces and do not install objects that could reduce its visibility or obstacle the bar's movement.

In case of infiltrations, damaged cables or detachments, ask for an inspection from an installer before continuing its use.

Routine inspections from the installer
Check the covering's mounting, the conditions of strip, connections and caulk seal. Verify the functioning of all the colors and the correct response to external commands.

Disposal
At the end of its service life, dispose of the product and its components into the correct waste systems, according to your local regulations. Do not release into the environment.

9. Warranty

The warranty covers the device for 24 months from the buying date. If during that time the product malfunctions in ways that are imputable to manufacturing, the device will be repaired or substituted, at the discretion of the warranty manager, without any cost for the client.
The warranty does not cover mechanical failures, heat or flooding damage, malfunctions caused by user intervention, weather events or components subject to normal wear and tear.
The recignition of defect during the warranty won't result in any refunds or compensation for missed profits or periods of inactivity.

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