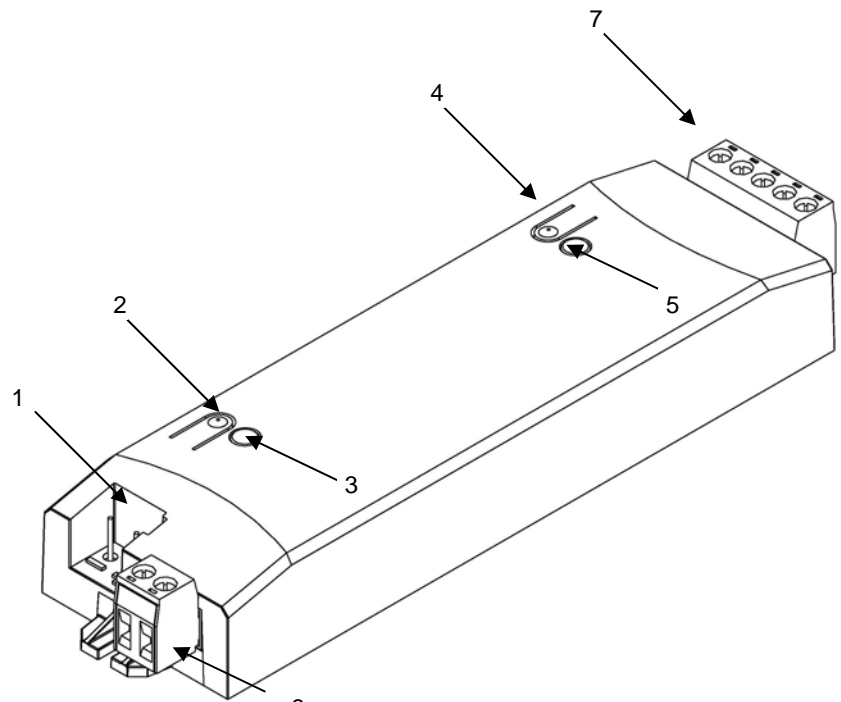


MAIN FEATURES

- Control of RGB LEDs or 3 independent channels.
- External power supply required (12-24 VDC).
- LEDs test function
- KNX BCU integrated
- KNX and CE mark

SIZE AND DESCRIPTION

N	Element
1	KNX Connector
2	KNX Programming button
3	KNX Programming and internal test LED
4	Test button
5	Test LED and Reversed polarity indicator
6	External power supply terminal block
7	LEDs control terminal block



KNX Programming button: a push button to set the programming mode. If this button is held while plugging the device into the KNX bus, it goes into secure mode.

KNX Programming and internal test LED: the red LED indicates programming mode. When the device goes into secure mode, it blinks red every 0.5 seconds. The blinking blue LED indicates internal test.

Test button: it tests the functioning of channels connected to the device. Push and hold for 3 seconds to get in/out of the testing mode.

Test LED and polarity: tricolored LED that indicates which channel (red=channel 1/R, green=channel 2/G, blue=channel 3/B) is being tested. White light indicates that the device is in test mode. Orange light indicates reverse polarity in external power supply.

GENERAL SYSTEM SPECIFICATIONS

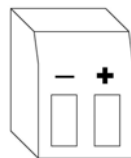
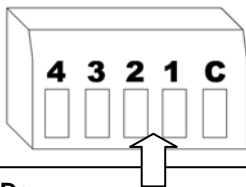
Type of device	Electric Operation Control Device	
KNX Supply	Voltage	29V DC SELV
	Voltage range	20...31V DC
	Power consumption	145 mW
	Bus connection	Typical BUS connector TP1, 0.50mm ² section
External Power Supply	12 – 24V DC	
Power Supply cable section	1.5 mm ² to 2.5 mm ²	
Type of control	PWM (150, 300, 488 ó 600 Hz)	
Ambient Temperature	0°C to +45°C	
Storage Temperature	-5°C a +50°C	
Ambient Humidity	30 to 85% RH (no condensation)	
Storage Humidity (relative)	30 to 85% RH (no condensation)	
Complementary Characteristics	Class B	
Safety Class	II	
Operation Type	Continuous operation	
Device Action Type	Type 1	
Electrical solicitations period	Long	
Type of Protection	IP20	
Assembly	Independent control assembly device Connect Lumento as near as possible to both, the LED to dimmer and the external power supply	
Power Failure response (bus)	Data saving	
Response when restarting (bus)	Data saving	

Operation indication	Programming/internal test LED indicates: programming mode (red lighting), safe mode (red blinking) and internal test (blue blinking). Test LED indicates: White, device in test mode; Red, test channel 1 (R); Green, test channel 2 (G); Blue, test channel 3 (B). Reverse polarity of external power supply is indicated by the Test LED with orange light.
PCB CTi index	175 V
Enclosure	PC-ABS, flammability category Class D
Size	Without terminal blocks: 144x44x22mm / With terminal blocks: 157x44x22mm
Weight	102 g.

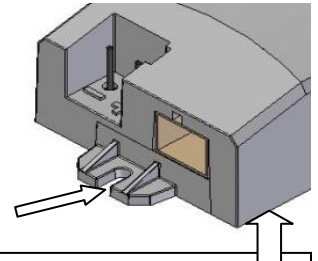
OUTPUTS SPECIFICATIONS AND CONNECTIONS

Maximum current per channel	2.5A @ 25°C ambient temperature
Number of channels	3
Total power connected	90W (12V DC) or 180W (24V DC)
Connection Type	Terminal block (screw)
Cable Section	1.5 mm ² to 2.5 mm ²
Load type	Common anode
Shortcut protection	Yes
Overheating protection	Yes

WIRING AND ASSEMBLY DIAGRAMS



External power supply:
+ and - terminals of external power supply 12-24 VDC



Assembly:
Screw mounting, 2 holes of 3.5 mm diameter. Screws not included.

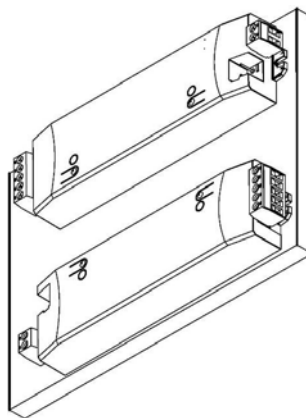
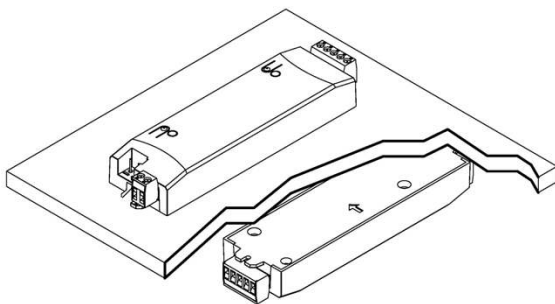
LEDs

The LEDs load is connected to the terminal block, matching the anode or the anode common terminal of the LED stripes with C (anode)

Correspondence

C: Anode 2: Green 1: Red 3: Blue 4: - spare -

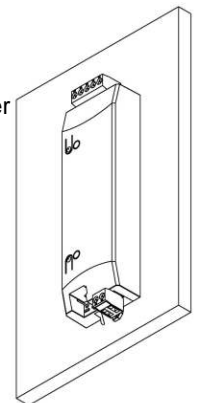
Recommended installation:



NOT recommended:

Vertical position.

If there is not any other possibility, install terminal block up (see fig.)



SAFETY INSTRUCTIONS

- Do not connect Mains Voltage (230 V) or any other external voltages to any point of the BUS. Connecting an external voltage might put the entire KNX system at risk.
- Make sure during the installation that there is always sufficient insulation between the mains voltage 230V and the bus or the extension inputs.
- When Overheating protection is active, the device will decrease the luminosity level and control frequency. Further information, please read manual.
- The voltage of the power supply connected to Lumento will never exceed the voltage required for the load, which is specified by the manufacturer. Not following this recommendation would mean a risk for the installation.