

e-Controller® 1-10V Light Controller

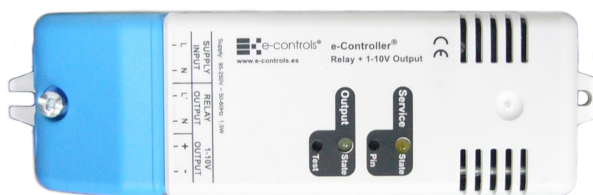
Instruction Sheet

1-10 V LIGHTING CONTROLLER

Product Reference: EC.510200-000



e-Controller 1-10 V is a product series designed to fulfil every requirement for the control and automation of buildings and homes. It includes a communication bus that uses mains wiring in order to interface with other equipment; it also includes an internal configuration feature, making it unnecessary to use a computer for commissioning.



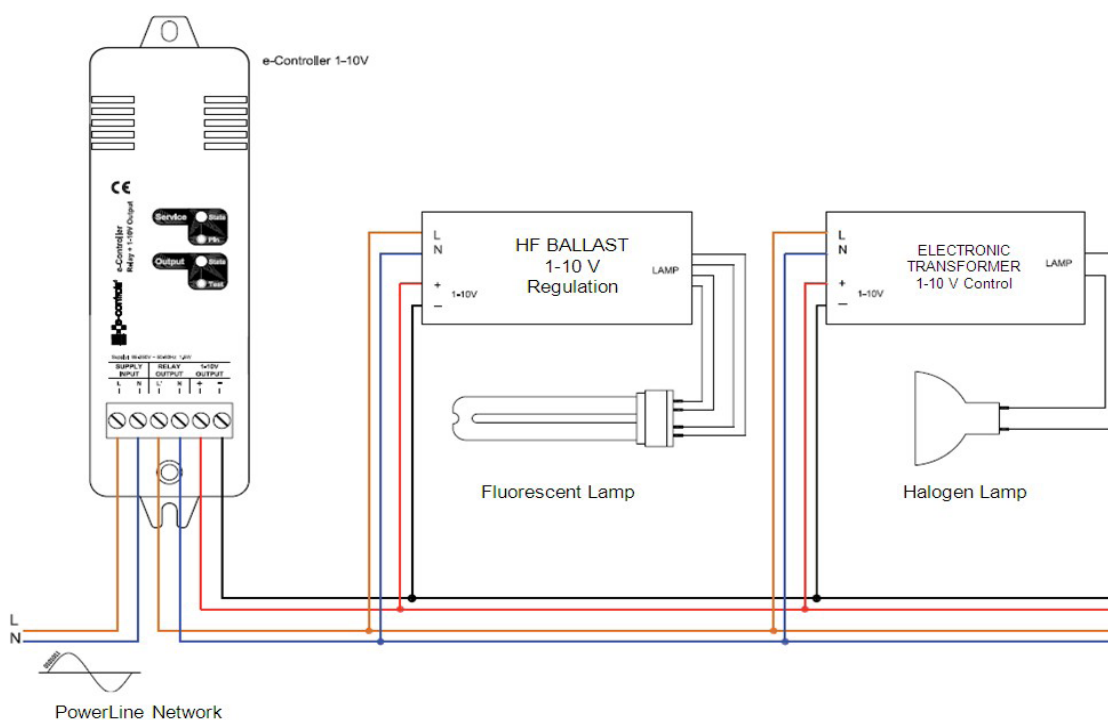
Product Description

The e-Controller 1-10 V Lighting Controller is designed for luminaire control and dimming using an electronic ballast with 1-10 V input regulation capability.

The device is powered from the mains voltage through the Supply Input terminals. It connects to the load through the Relay Output terminals for On/Off control and through the 1-10 V Output for light dimming.

The controller features a Service pushbutton that allows configuring the unit from the e-Scene tactile keypad or logging it into a LonWorks® network. The Test pushbutton provides local actuation on the load that is connected to the unit: pressing momentarily changes the relay state; pressing continuously performs light dimming.

Wiring Diagram



Installation Instructions

Remove the blue protection cover. Connect the mains to the L/N terminals labelled Supply Input. Ensure that the other PowerLine devices with which the unit should interface are connected to the same mains network. Connect the Relay Output terminals to the load(s) to be controlled, following the above wiring diagram.

Connect the wires from the 1-10 V Output terminals to the 1 10 V input(s) of the electronic ballast(s) for light dimming. Ensure correct polarity, otherwise the system will not operate.

Caution:

- Prior to installing or removing the device, ensure that there is no mains voltage present in the wiring to be connected or near the unit.
- Do not cut or wind network cables that are wired to the unit.
- Do not work on the wiring with wet hands.
- Do not open or pierce the unit.
- Keep the device and the supply wires away from moisture and dust.

Commissioning Instructions

Configuring an e-Scene® tactile keypad channel:

- 1) Start the installation process from the e-Scene® keypad by pressing the REC key followed by the ON key.
- 2) Select the channel to be configured (C1, C2...C5).
- 3) Press the "Test" pushbutton of the e-Controller® to be configured for the selected channel. The e-Scene® will sound three "beeps"; at this point, the e-Controller® is configured.
- 4) Repeat step 3 when other e-Controller® units are to be configured for the same channel.
- 5) Select another channel and repeat steps 2, 3 and 4 if another e-Controller® is to be configured for a different channel.
- 6) To end the installation process, press the REC key followed by the OFF key on the e-Scene®.

Manual light dimming

To switch lights On or Off: press momentarily (during less than 0.5 seconds) the "Test" pushbutton.

To dim the lights: with lights On, keep the "Test" pushbutton pressed. Light intensity will increase/decrease to the limit.

Clearing link configurations

Simultaneously press the "Service Pin" and the "Test" pushbuttons during 5 seconds.

Technical Features

Supply Power

Operating voltage. 95-250 Vca, 50-60 Hz
Consumption 45 mA

Communications

Technology LonWorks®
Standard ISO/IEC 14908
Protocol Lontalk®
Transmission channel Electric mains – PowerLine
Transceiver OPL27 by e-Controls®
LonMark® compatible device

Outputs

Control output 1 - 10 V
Relay output 230 Vca / 8 A
Phase switching
Maximum relay output load 8 off 2 x 18 W ballasts

Pushbuttons and indications

Test and configuration pushbutton TEST
Commissioning pushbutton SERVICE
Green test and configuration indicator LED
Green commissioning indicator LED

Temperature

Operating 0°C to +50°C (32°F to 104°F)
Storage. -20°C to +85°C (-4°F to +185°F)

Humidity (non condensing)

Operating 10% to 90% RH at 50°C
Storage. 95% RH at 50°C

Dimensions, weight and installation

Dimensions 37x131x30 mm
Weight 100 gr
Installation Surface mount
Terminals Screw type
Conductor cross sectional area 0,5 mm² - 2,5 mm²
Protection index IP20
Electrical safety Class III

Product standard

Automatic electrical controls for household
and similar use EN 60730-1

CE Conformity

Low Voltage Directive 2006/95/EC
Electromagnetic Compatibility Directive 2004/108/EC

Regulations

Safety EN 60730-1
Emissions EN 61000-6-3, EN 50065-1
Immunity EN 61000-6-1, EN 50065-2-1

Product Reference Nos.

e-Controller 1-10 V Light Controller EC.510200-000

Related Products

e-Scene BT.51G000-000
e-Scene Remote Infrared Control IR.70G000-000
e-Controller 2 Digital Inputs PC EC.512001-000
e-Controller 1 Relay Output PC. EC.510102-000
e-Controller 2 Outputs - ON/OFF EC.510203-000
e-Controller 2 Outputs - Blinds EC.510204-000
e-Controller 2 In. /2 Out. - ON/OFF EC.512205-000
e-Controller 2 In. /2 Out. - Blinds. EC.512206-000