

SOURCE FOR MAINS VOLTAGE AND APPLIANCE CONTROL VIA DALI

ORCAVE 303-111

A small plastic box with dimensions of 112 x 62 x 31 mm fits easily into public lighting poles, but also into a number of lamps, the source of which can receive control commands in DALI or 0-10V or even PWM. It is therefore a universal solution for most applications with regulation.



mechanical design

Design	plastic box, input and output cables through grommets
Dimensions	112 x 62 x 31 mm
Material	ABS
Fixing	fixing holes on each side for screws or facets
Degree of protection	IP66, electronics encased in mass
Cable input	3 cores terminated with a tube
Cable output	5 cores terminated in a waterproof connector
Weight	0.25 kg

communication

Switchboard direction	PS PLC (Phase Shift Power Line Communication), communication via power line
Direction appliance main	DALI
Consumer direction variable	0 - 10V
Consumer direction variable	PWM

additional properties

Analog input	detection in the range 0 - 20V
Digital input/output	0 - 15V

Design

The Orcave 303-111 LampDriver is a small plastic box with cable grommets on the longer sides. Under the grommets, there are elongated "ears" on the box with holes for attaching screws or facets, for example, to the terminal board in the column. The box is made of black ABS with an information label on the face, and the electronics inside are covered with a waterproof material.

Functions

The source is designed to power and control lights that work with a DALI ballast. Examples can be Miracle lamps in the Advanced design or quite common lamps from other manufacturers on the market. The main benefit of this power supply lies in the ability to communicate with the switchboard (application) through the power line. The control of the appliances is therefore not dependent on a wireless solution, which is inappropriate for the critical infrastructure of the city. The electronics of the source in its standard design can control not only lights with DALI, but also with an analog communication solution of the 0 - 10V type or the less frequently used phase communication of the PWM type. The capabilities of the source are expanded by the possibility of detecting an analog signal in the range of 0 to 20V, or a universal input/output digital port 0 - 15V. Usually, the source is installed at the terminal block at the foot of the column (it fits even in narrow sockets), which is advantageous during installation and possible service. However, it is also possible to build it directly into the light fixture, if the design of the light fixture allows it. This solution is interesting, for example, for lighting fixtures that are installed on concrete columns.