

S-LED-SPOT110: LED spotlight 9W 110mm

Document number: PO-061-EN Version: 1.0.1 Date of publication: January 12, 2023



Technical data

Supply voltage
12V DC

Idle current consumption
6mA

Maximum current consumption
800mA

LED type
CREE

Power
9W

Technical data cont.

Number of diodes
9

LED lifetime
min. 50000 hours

Light colour temperature
3000K, 4000K

Angle w/o lens
115°

Luminous flux
860lm

Dimensions

Diameter
110mm

Height
20mm

Environment

Temperature
-40 – 50°C

Humidity
≤95%RH, non-condensing

The image above is for illustration purpose only. The actual module may vary from the one presented here.

General features

Module S-LED-SPOT110 is a component of the Ampio system. Required voltage to power the module is 12V DC. The module is controlled via OWA lighting bus.

The module is an LED spotlight with an integrated OWA lighting bus controller.

When ordering the device, it is necessary to specify the expected temperature of the light source.

The colour of the light of spotlights produced within different batches may slightly differ. Orders are completed with S-LED-SPOT110 spotlights from one production batch.

In the case of extending an existing installation with additional light sources, please contact the sales department to select appropriate spotlights.

OWA lighting bus

The OWA lighting bus (One Wire Ampio) is a solution dedicated to controlling LED lighting. Each bus segment contains a controller and up to 16 lighting node drivers or LED lamps with integrated drivers. From the controller level, it is possible to smoothly adjust the brightness of light sources connected to each of the controllers. It is possible to control sets of light points or individual lights independently. It is also possible to implement the so-called *staircase effect*, i.e. smooth brightening and dimming of consecutive light points along the stairs, driveway, etc.

The OWA lighting bus consists of two wires - a ground wire and a wire that ensures communication between the controller and the drivers of a lighting node. Lighting node drivers also require a power line, hence the OWA bus is usually run with a three-wire cable.

With the use of several power lines, it is possible to connect to a single segment of the OWA bus lighting node drivers powered by different voltages. In such a case, however, care should be taken to properly equalise the ground potentials of each of the power supplies, i.e. to connect the grounding of the power supplies.

Installation

The S-LED-SPOT110 spotlights are designed for mounting in standard lighting fixtures with a diameter of 110mm.

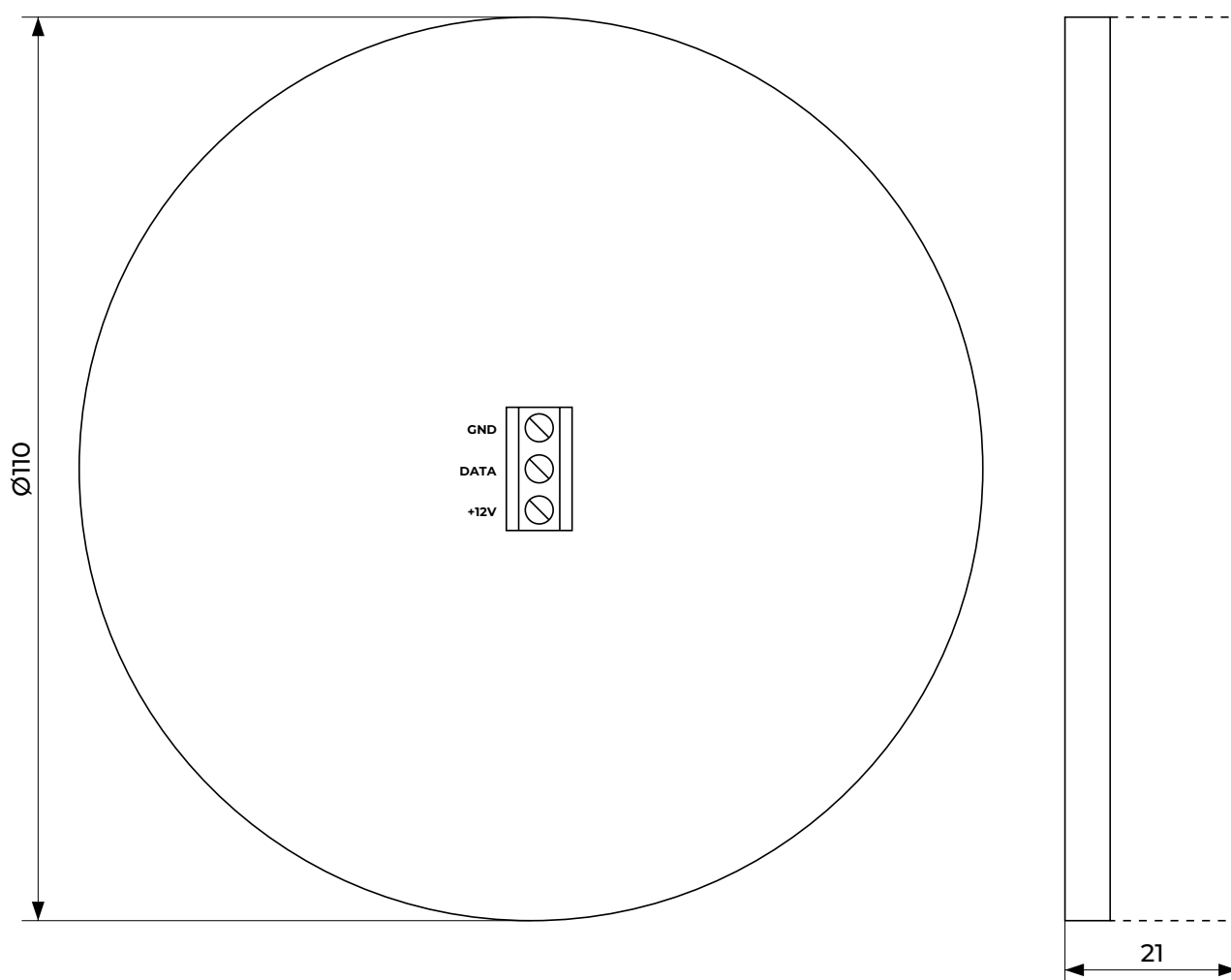
Programming

The operation logic of lighting bus drivers is entirely imposed by the configuration of the controller supervising the given bus segment. Hence, the drivers themselves are not subject to programming, and all related configuration activities are carried out by the appropriate lighting bus controller.

Module dimensions

Dimensions expressed in millimeters.

The dashed lines mark the areas where the device connectors or its other elements can be located. In the actual module, connectors may be located in a different place than in the figure below, but within the marked area.



Connection diagram

The location of the device connectors on the connection diagram is indicative - in the physical module their location may be different.

