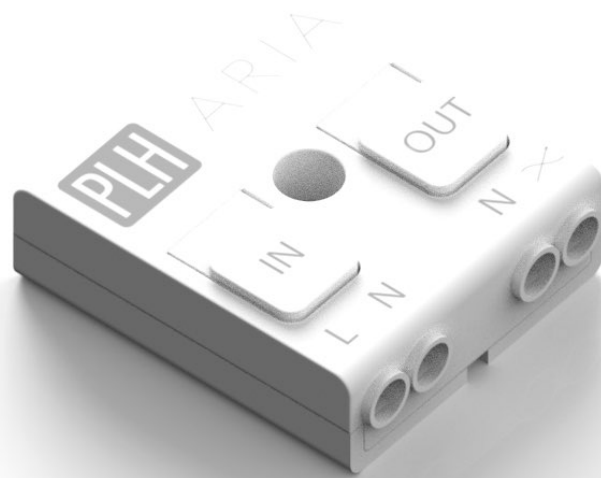




Aria Trailing Edge Dimmer
A.D

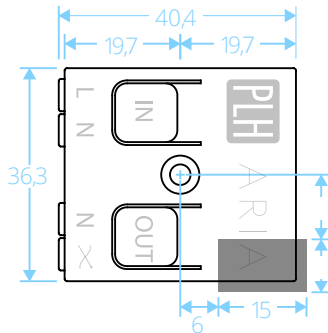


PLH Aria Trailing Edge Dimmer

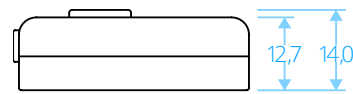
cod. A.D

Bluetooth controllable, Casambi enabled, trailing-edge dimmer for operation of incandescent lamps, dimmable LED lamps and dimmable LED control gear. It can be connected, only by qualified professionals, behind a traditional wall switch, inside a luminaire or into a ceiling outlet box. Can be controlled via PLH Aria keypads, and with Casambi app available for iOS (iPhone 4S or later, iPad 3 or later, iPod Touch 5th gen or later) and Android devices (Android 4.4 KitKat or later devices produced after 2013 with full Bluetooth 4.0 support).

Drawings and measures



Mounting hole diameter:
3,5 mm



■ Minimum required hole if mounted on metal

Technical specifications

Input

Voltage range and frequency: 85-240 VAC | 50-60 Hz
 Max. mains current: 0,65 A
 No-load standby power: < 0,3 W

Output

Dimming method: trailing-edge phase control
 Max. output power:
 - Incandescent , high voltage halogen bulbs and AC LED modules: 150 W @ 230 VAC 70 W @ 110 VAC
 - Dimmable LED , CFL bulbs and electronic transformers: 50 W @ 230 VAC 25 W @ 110 VAC
 Max. output current and current pulse: 0,65 A | 4 A
 Min. load requirement: 1 W
 Max. current pulse: 4 A

Radio transceiver

Maximum output power: 2,4...2,483 Ghz +4 dBm
 Ambient temperature, ta: -20...+45 °C
 Max. case temperature, tc: +65 °C
 Max. relative humidity: 0...80%, non-cond.
 Range (depending on the surroundings) up to 25 m

Connectors

Wire range, solid & stranded: 0,5-1,5 mm² 16-20 AWG
 Wire strip length: 6-8 mm

Mechanical data

Dimensions: 40,4 x 36,3 x 14,0 mm
 Weight: 15 g
 Degree of protection: IP20 (indoor use only)

Firmware:

5086 Standard
 5087 Low curve (led)
 5088 Middle curve (led)
 5089 High curve (led)
 5190 On/Off

Load suitability

Type of load	Max load
Incandescent and high voltage halogens (R)	150 W
High quality dimmable LED bulbs (C) ¹⁾	50 W
High quality dimmable CFL bulbs (C) ¹⁾	50 W
Trailing edge dimmable LED drivers (C) ^{1) 2)}	50 W
Low voltage halogens with electronic transformers (C) ^{1) 2)}	50 W
High voltage AC LED modules (R) ³⁾	150 W
Luminescent lamps, non-dimmable LED and CFL bulbs (C)	Not allowed
Wire wound transformers, electric motors and other inductive loads (I)	Not allowed

Never connect inductive loads (I), such as iron core transformers. This could cause permanent damage to the dimmer. Do not mix different types of loads.

- ¹⁾ Dimming quality depends solely on the load electronics.
Do not connect more than two LED or CFL bulbs to one CBU-TED.
Do not mix different types of bulbs or loads.
- ²⁾ Do not connect more than two electronic transformers to one CBU-TED.
- ³⁾ Some LED modules may flicker at low dimming levels.

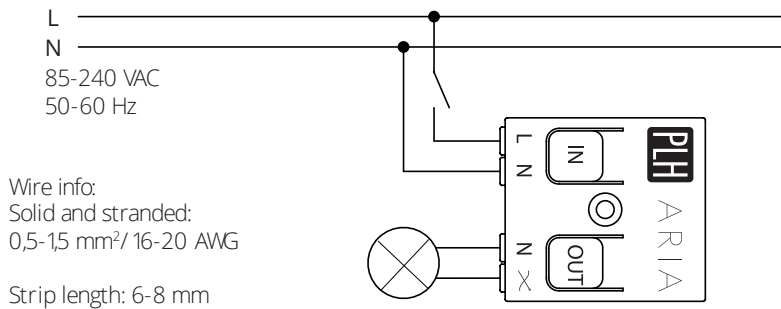
Installation

Make sure that the mains voltage is switched off when making any connections. Use 0,5-1,5 mm² solid or stranded conductor electrical wires. Strip the wire 6-8 mm from the end.

Insert the wires to the corresponding holes. Make sure to connect the input (IN) and output (OUT) correctly.

If you install the dimmer into a heat sensitive environment (i.e. inside a luminaire or in a ceiling outlet box above a luminaire), make sure that the ambient temperature does not exceed the specified maximum value. Using the dimmer in a heat sensitive environment may limit the maximum output power.

Wiring diagram



Warning!

Hazardous voltages. Risk of electric shock or fire. Only qualified professionals should make the connections in accordance with the local regulations and rules. Disconnect the mains power supply and verify its absence prior to installation.

