

Project · Reference number

Date

Product data sheet

Application

Air Connector for configuration and control of DALI operating devices via a mobile radio connection according to NB-IoT standard. The Air Connector with built-in DALI power supply serves as an interface to the BEGA Connect Cloud, enabling control of DALI luminaires. The device is conveniently configured and parameterised via the free BEGA Connect app for iOS and Android.

Product description

The BEGA Air Connector is suitable for controlling the following functions:

- on/off
- Dimming
- Group control
- Scenarios
- Colour temperature (DT8)
- Colour control (DT8)

DALI control output

for joint switching and dimming of max. 20 DALI operating devices or DALI control devices

QR code for convenient setup using a smartphone

Status LEDs

Integrated aerial

Bands: Band 20 (791–862 MHz)

and band 8 (880–960 MHz)

Max. output +22.3 dBm

Radio standard: NB-IoT

Housing consists of glass-fibre reinforced thermoset polyester

Colour: Squirrel grey, similar to RAL 7000

4 mounting holes \varnothing 6.3 mm

Distance 204 x 82 mm

2 screw cable glands with strain relief for connecting cables \varnothing 8–17 mm

max. $5 \times 2.5 \text{ mm}^2$

Connection terminals $0.5\text{-}2.5 \text{ mm}^2$

"Earth terminal" for connecting or forwarding the possibly carried protective conductor up to 4 mm^2

Supply voltage:

100–240 V \sim 0/50–60 Hz

DALI out: $I_{ps} = 100 \text{ mA}$

DALI out: $I_{ps,max} = 250 \text{ mA}$

DALI voltage: $U_{(DALI)} = 16 \text{ VDC}$

No-load power: 0.5 W

Input power: max. 10 W

Starting current: 18.4 A / 150 μs


Overvoltage category III

Overvoltage protection: 2 kV

Ambient temperature: -20°C to $+70^\circ\text{C}$

RoHS-compliant

WEEE 2012/19/EU

Safety class II 

Protection class IP 66

Dust-tight and protection against strong water jets

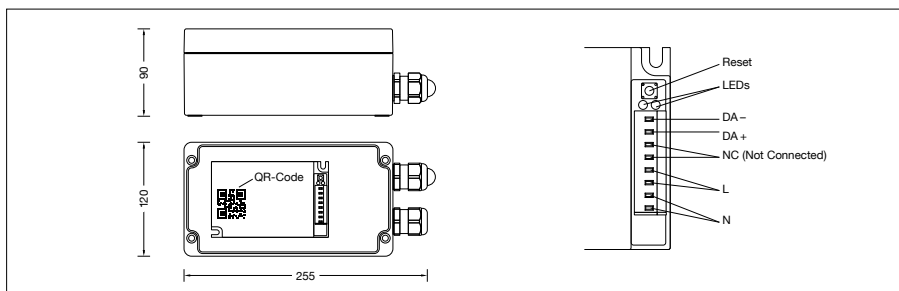
Impact strength IK09

Protection against mechanical

impacts < 10 joule

 – Conformity mark

Weight: 1.5 kg



Please note:

The Air Connector has an integrated DALI power supply.

The DALI signal is a functional extra-low voltage circuit (FELV).

Note: Installation and insulation regulations similar to a mains power supply (e.g. 230 V AC) must be ensured for DALI.

The max. cable length of the DALI control cable must not exceed 300 m or a voltage drop of 2 V must not be exceeded.

A one-off extension of the DALI control cable from 300 m to up to 600 m can be achieved using the DALI repeater 71 038 or 71 063.

Ensure that the maximum power consumption of the DALI line does not exceed the guaranteed output current of 100 mA.

Network coverage

For information on the current NB-IoT network coverage, please refer to our website connect.bega.com.