

DCobi-BMZG

Bluetooth™ Mesh Zhaga outdoor lighting controller

Product description

DCobi-BMZG is a Bluetooth™ SIG Mesh, SILVAIR enabled DALI outdoor lighting controller, powered directly from a D4i LED driver and is installed on a luminaire using a Zhaga Book 18 street lighting connector.

DCobi-BMZG is highly affordable and provides the basis for an advanced energy-efficient lighting control solution that help businesses and institutions reducing their energy consumption and shortening their ROI.

DCobi-BMZG has a built-in light sensor for photocell operation, a motion sensor input for dynamic lighting and can run onboard lighting schedules with dimming profiles.

DCobi-BMZG is designed to make the installation and the operation of an outdoor lighting network simpler and faster than ever before, with no lighting control expertise required, and is commissioned with an intuitive mobile app, which can be downloaded from Apple Store. Device firmware can be updated over-the-air to the latest revision.

DCobi-BMZG is extremely robust, reliable, secure and has an impressive wireless outdoor range that is extended as more lighting controllers are introduced in the mesh, acting as repeaters. There is no need for an external gateway device, as the mesh forms automatically an intelligent wireless communication network, making it an ideal solution from a single luminaire up to a full lighting control system with hundreds of devices.

DCobi-BMZG is based on the globally interoperable Bluetooth™ SIG Mesh standard, and will work with qualified Bluetooth™ mesh devices from other vendors, enabling increased functionalities in your lighting control network.

Typical applications

Outdoor installations: parking lots, bridges, access roads, sport courts, parks, building exterior areas, etc.

Ordering data

Model no.	Description	Installation	Wireless network	Power supply	Luminaire interface
DCobi-BMZG	Bluetooth™ Mesh Zhaga outdoor lighting controller, with ambient light sensor and motion sensor digital input	Zhaga, external	Bluetooth™ SIG Mesh, SILVAIR enabled	24VDC	DALI-2



Technology Partner

SILVAIR



Technical Data

Input

Supply Voltage:	24VDC
Nominal Current:	5mA
Power Consumption:	<0.12W

Luminaire interface

DALI-2 according to IEC 62386 standard, compliant with D4i

Radio transceiver

Operating frequency:	2.4 GHz
Maximum output power:	+8 dBm

Radio protocol

Bluetooth Mesh 5.3

Radio range ⁽¹⁾

 200m (656ft)

Operating conditions

Operating temperature range:	-40 °C to +70 °C
Humidity:	95% RH, non-condensing
Storage Temperature:	-40 °C to +85 °C

Mechanical

Dimensions:	H33mm (1.30") x D48mm (1.89")
Weight:	26g
Degree of protection:	IK09, IP66, when fitted

Housing

Base:	PBT, grey or black
Cap:	PC, transparent smoke grey
Thermoplastic rating:	UL 94V-0 and UL UV-f1

Mounting type

Zhaga Book 18 receptacle

Warranty

5 years

Reliability data

389 FIT (@25°C, FIDES 2009)

Approval marks⁽²⁾



Standards⁽²⁾

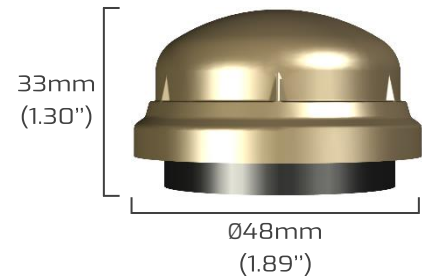
IEC 62368-1, FCC Part 15, Subpart B CFR 47, CISPR 11, ANSI C12.1, IEC 62386

Commissioning mobile app

iPhone iOS 10 and iPad iOS 10 or later are supported



Dimensions



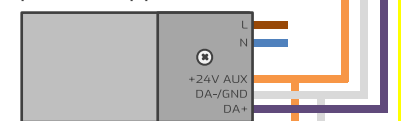
Wiring diagram

- 1: +24VDC Aux PS
- 2: DALI - / GND
- 3: DALI +
- 4: PIR sensor (OCC)

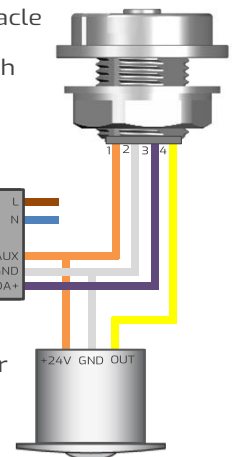


Zhaga B18 receptacle

D4i LED driver with integrated +24V Aux and DALI bus power supplies



PIR/Motion Sensor 5...24VDC output (optional)



(1) With line of sight. Range is highly dependent on the installation conditions, surrounding environment and obstacles. Using mesh network technology, each node acts as a repeater. Longer ranges can be achieved by using multiple nodes.

(2) Approval pending.