eBLOC-N CONTROLLER

Group in catalogue: SMART

BIOT GRUPA LUG

LUG® LIGHT FACTORY

CE | 220-240V / 50 Hz | IP 66 | IK 09

The eBLOC-N lighting controller has been created to facilitate the remote control of street lighting. Connected to a NEMA socket - it allows the user to control lighting with the DALI or 1...10 V power supply and to manage other components of luminaires (e.g. NTC thermistors). Thread radio communication enabled by eBLOC-N means, that the user can send commands and configurations, as well as receive alerts pertaining to events and current parameter values. The eBLOC-N is used as a controller with LUG luminaires but it can also be sold as a separate product for assembly in luminaires from other manufacturers .

eBLOC-N

Data collected by the eBLOC-N controller is transmitted to the hub, and then to the management system. If there is no connection with the hub, the data is buffered in the controller for several hours and all historical data from the buffer is transmitted to the system once the connection is restored. If there is no connection between the hub and the management system, data can be stored in the hub for as long as a week and sent to the system once the connection is restored.

Learn more abour our SMART offer:
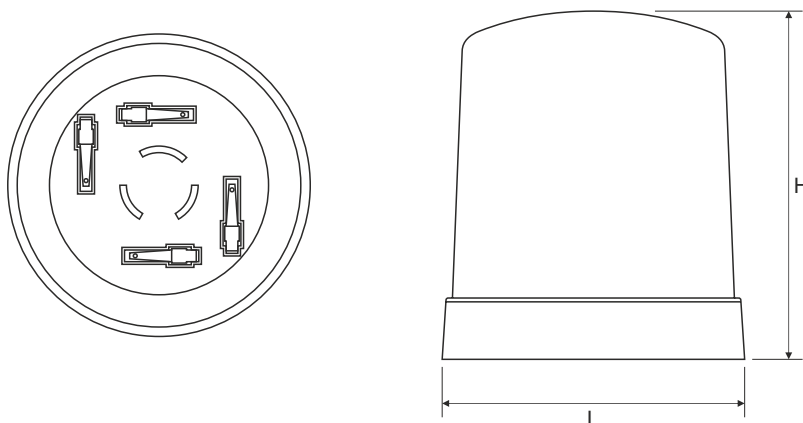## www.lug.com.pl/Urban

GENERAL DATA

- 2.4 GHz radio controller with THREAD communication (radio-mesh) with a built-in antenna
- System connection via 7-pin NEMA socket
- Power control via DALI interface or 1...10V programmable output
- Logical system sensor input with driver 15V/2mA
- Built-in NTC temperature sensor
- Built-in twilight sensor

- Measurement of power consumed by the luminaire, of current, voltage, active, reactive and apparent power, as well as of the power factor
- Real-time clock which continues operation in the case of power loss
- Relay output for complete disconnection of the luminaire power supply
- Dedicated to the BIOTcloud lighting control system
- Lifetime of up to 100 000 h
- 5 year warranty

Up-to-date product info and General Warranty Terms available on our website www.luglightfactory.com

The LUG Company reserves the righ to introduce any construction changes and improvements to the product

AVAILABLE VERSIONS

Code	Mounting	Power	Type of equipment	Dimensions [mm] L H
770020.001.C00	outside	230 V AC	Thread, DALI, 1-10 V twilight sensor, temperature sensor	84 98

DIMENSIONS

ADDITIONAL PHOTOS

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ELECTRICAL PARAMETERS OF THE MODULE

POWER SUPPLY	Supply voltage [U_{in}]: **220-240 V**
	Supply frequency [f_{in}]: **50 Hz**
	Input power [P_{in}]: **1,5 W**
INPUT/OUTPUT PARAMETERS	Max. relay load current [I_{RL}]: **3 A**
	Max. relay load voltage [U_{RL}]: **250 V**
	Min. no. of relay operating cycles [N_{RL}]: **10 000**
	Max. no. of controlled DALI devices [n]: **5**
	Max. 1...10V output load current [I_L]: **10 mA**
	Sensor power output voltage [$U_{SensPwr}$]: **14 V**
	Max. input voltage of Sensor Input line [$U_{SensIn(MAX)}$]: **24 V**
	Min. input voltage of Sensor Input line in high state [$U_{SensIn(Hmin)}$]: **10 V**
	Max. input voltage of Sensor Input line in low state [$U_{SensIn(Lmax)}$]: **4 V**
ENVIRONMENTAL PARAMETERS	Ambient temperature [T_{amb}]: **-40 ... +70ºC**
	Storage temperature [T_{store}]: **-40 ... +85ºC**
	Relative humidity [h]: **10 ... 90%**
	Degree of water and dust protection: **IP66**
	Impact resistance: **IK09**
OTHER	Radio frequency protocol: **IEEE 802.15.4, 6LoWPAN, Thread**
	Frequency band: **2,4 GHz**

TECHNOLOGICAL PROPERTIES OF THE ELECTRICAL MODULE

Net weight: **210 g**
Lifetime (Ta = 70ºC): **100 000 h**
Warranty: **5 years**
Application: **for outdoor luminaires**

DESCRIPTION OF MODULE CONNECTORS

1	**Load**	**Red**	Output phase wire
2	**Line**	**Black**	Input phase wire
3	**Neutral**	**White**	Neutral phase wire
4	**+DALI/1...10 V**	**Violet**	Positive output DALI or DIM 1...10 V
5	**-DALI/1...10 V/Sensor GND**	**Gray**	Negative output DALI or DIM 1...10 V, Sensor Input and Sensor Power ground
6	**Sensor Power**	**Orange**	External sensor power output
7	**Sensor Input**	**Brown**	External sensor input