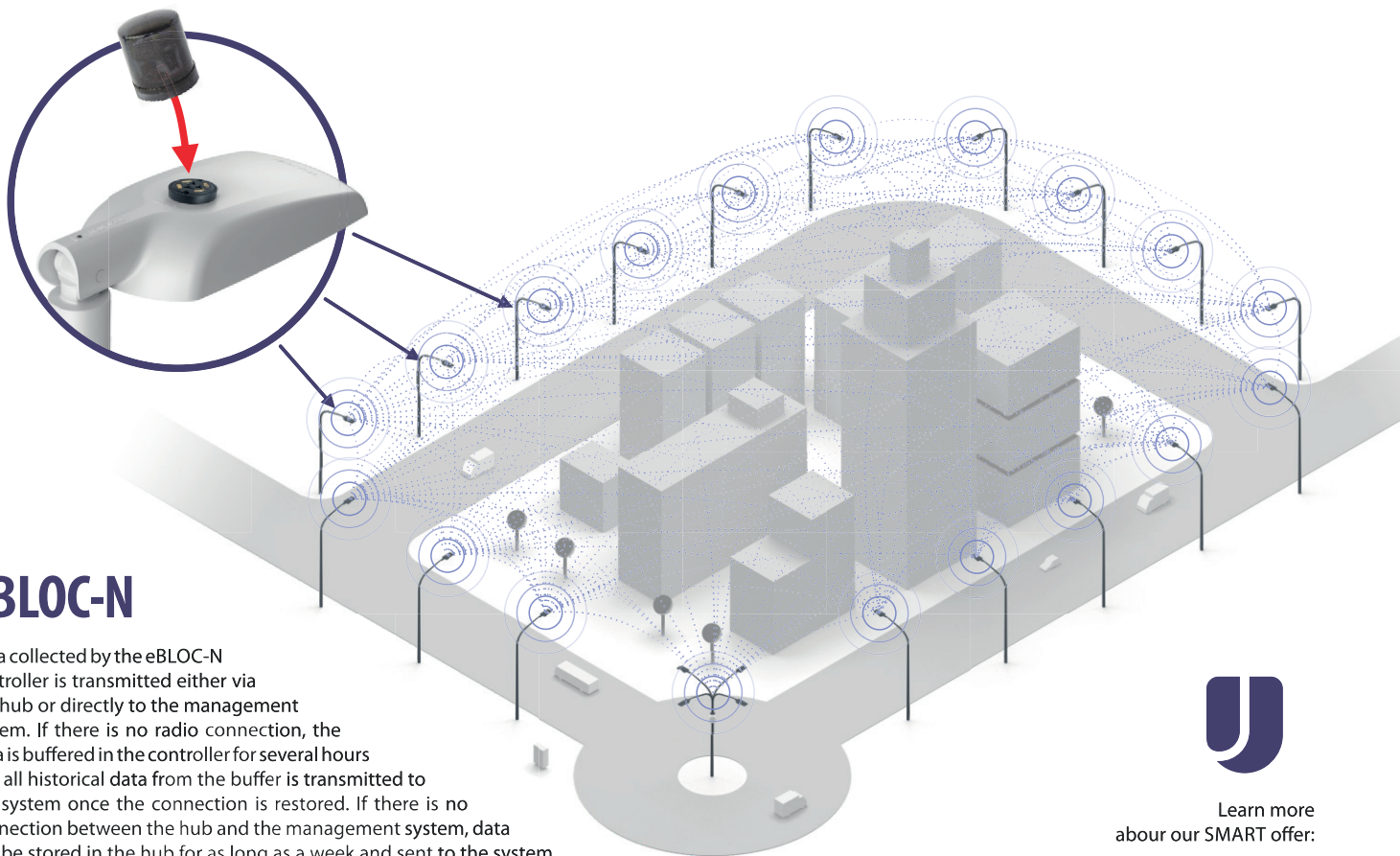




The eBLOC-N lighting controller has been created to facilitate the remote control of street lighting. Connected to a NEMA socket - it allows the user to control lighting with the DALI or 1...10 V power supply and to manage other components of luminaires (e.g. NTC thermistors). Wireless communication 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 either via the hub or directly to the management system. If there is no radio connection, 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
about our SMART offer:

www.lug.com.pl/Urban

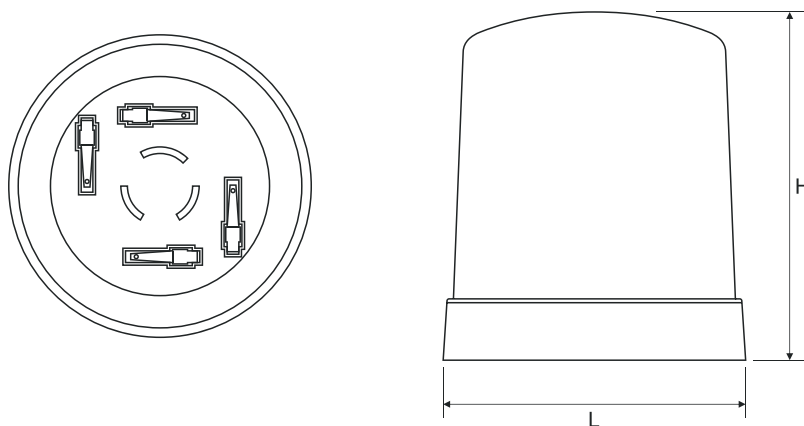
GENERAL DATA

- 2.4 GHz radio controller with Thread or LTE Cat M1/2G communication 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 and dusk sensor
- Built-in GNSS receiver (in some versions)
- 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

AVAILABLE VERSIONS

Code	Mounting	Power	Type of equipment	Dimensions [mm] L H
770020.001	outside	230 V 50 Hz 120 V 60 Hz	Thread communication	84 98
770020.002	outside	230 V 50 Hz 120 V 60 Hz	Thread communication + GNSS localization	84 98
770020.003	outside	230 V 50 Hz 120 V 60 Hz	LTE Cat M1/2G communication + GNSS localization	84 98
770020.004	outside	230 V 50 Hz 120 V 60 Hz	LTE Cat M1/2G communication + GNSS localization	84 98

DIMENSIONS



ADDITIONAL PHOTOS



**ELECTRICAL PARAMETERS
OF THE MODULE**
**TECHNOLOGICAL PROPERTIES
OF THE ELECTRICAL MODULE**

POWER SUPPLY	Supply voltage [U _{in}]: 220-240 V or 110-127 V Supply voltage frequency [f _{in}]: 50 Hz or 60 Hz Input power [P _{in}]: < 1 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 ... +70°C Storage temperature [T _{store}]: -40 ... +85°C 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

Net weight: **210 g**
Lifetime (Ta = 70°C): **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

