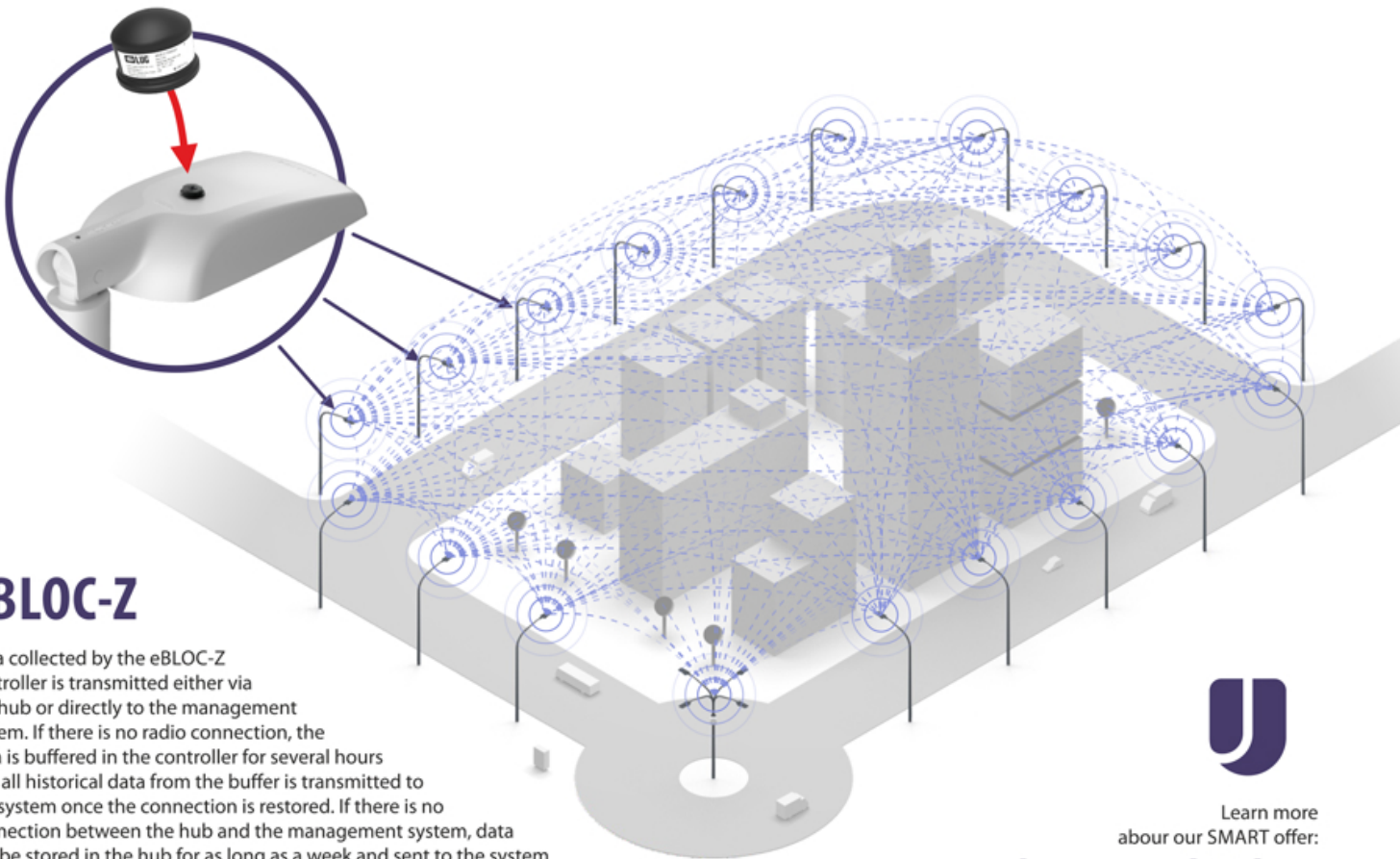




The eBLOC-Z lighting controller has been created to facilitate the remote control of street lighting. Connected to a Zhaga socket - it allows the user to control lighting with the DALI or 1...10V power supply and to manage other components of luminaires (e.g. NTC thermistors). Wireless communication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



## eBLOC-Z

Data collected by the eBLOC-Z 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](http://www.lug.com.pl/Urban)

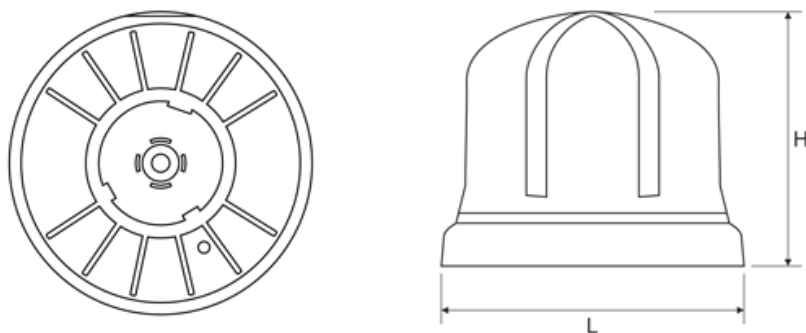
### GENERAL DATA

- 2.4 GHz radio controller with Thread or LTE Cat M1/2G communication with a built-in antenna
- System connection via 4-pin Zhaga socket
- Power control via DALI interface or 1...10V programmable output
- Logical system sensor input
- Built-in NTC temperature sensor and dusk sensor
- Built-in GNSS receiver (in some versions)
- Built-in twilight sensor
- Real-time clock which continues operation in the case of power loss
- 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
770030.001	outside	24 V DC	Thread communication	80 59
770030.002	outside	24 V DC	Thread communication + GNSS localization	80 59
770030.004	outside	24 V DC	LTE Cat M1/2G communication + GNSS localization	80 59

## DIMENSIONS



## ADDITIONAL PHOTOS



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

<b>POWER SUPPLY</b>	Supply voltage [U <sub>i</sub> ]: <b>15...24 V DC</b> Input power [P <sub>i</sub> ]: <b>0,5 W</b>	Net weight: <b>150 g</b> Lifetime (Ta = 70°C): <b>100 000 h</b> Warranty: <b>5 years</b> Application: <b>for outdoor luminaires</b>
<b>INPUT/OUTPUT PARAMETERS</b>	Max. no. of controlled DALI devices [n]: <b>5</b> Max. 1...10V output load current [I]: <b>10 mA</b> Max. input voltage of Sensor Input line [U <sub>SensIn(MAX)</sub> ]: <b>24 V</b> Min. input voltage of Sensor Input line in high state [U <sub>SensIn(High)</sub> ]: <b>10 V</b> Max. input voltage of Sensor Input line in low state [U <sub>SensIn(Low)</sub> ]: <b>4 V</b>	
<b>ENVIRONMENTAL PARAMETERS</b>	Ambient temperature [T <sub>amb</sub> ]: <b>-40 ... +70°C</b> Storage temperature [T <sub>store</sub> ]: <b>-30 ... +85°C</b> Relative humidity [h]: <b>10 ... 90%</b> Degree of water and dust protection: <b>IP66</b> Impact resistance: <b>IK09</b>	
<b>OTHER</b>	Radio frequency protocol: <b>IEEE 802.15.4, 6LoWPAN, Thread</b> Frequency band: <b>2,4 GHz</b>	

**DESCRIPTION OF MODULE CONNECTORS**

<b>1</b>	<b>24V Power</b>	Power input
<b>2</b>	<b>-DALI/-1...10 V Sensor GND Power GND</b>	Negative output DALI and DIM 1...10 V, GND for 24V power and Sensor Input
<b>3</b>	<b>+DALI/+1...10 V</b>	Positive output DALI and DIM 1...10 V
<b>4</b>	<b>Sensor Input</b>	External sensor input

