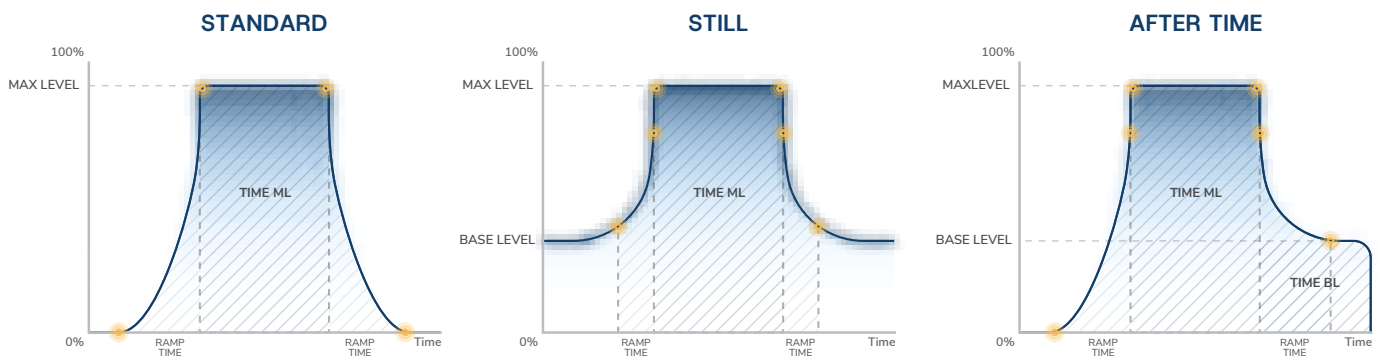




## Lars Lighting ZHAGA + LoRa Compatible, luminaire controller

Plug-and-play for lamps compatible with Zhaga socket (book 18) with full lamp management and feedback functionality.

- › ZHAGA socket (book18)
- › Communications with another devices via LoRa
- › Communications with network via LTE
- › Enables individual remote management, ON / OFF / Dimming of streetlight lamps
- › Specially designed and optimized for BLE Mesh/LORA networks.
- › Autonomous operation based on predefined schedules, light level sensor and light harvesting
- › Adaptive lighting capabilities based on 0-10 V input for motion sensing.
- › Bandwidth efficient with minimal communication requirements.
- › Secure communication based on encryption SHA-256, SHA256 (BLE only), AES256 (BLE Mesh)
- › Advanced data synchronization and notification mechanism
- › Interface for local configuration
- › Management via web applications or mobile applications or remote control
- › Integrated light level sensor



## SENSOR TECHNICAL PARAMETERS

|                               |                                                                                                 |
|-------------------------------|-------------------------------------------------------------------------------------------------|
| Lamp Type                     | any with driver 12V AUX DIM 0-10                                                                |
| Maximum lamp power            | Depending on the lamp driver                                                                    |
| Functions / Operation mode    | on/off dimming, motion detection, static detection CCT(dali only), addjustment light harvesting |
| Dimming range                 | 0%-100% (linear )                                                                               |
| White Tunable (CCT suport)    | -                                                                                               |
| Motion Range                  | 0-10m                                                                                           |
| Static Range                  | 0-4m                                                                                            |
| Control interface             | 0-10V                                                                                           |
| Power supply                  | 12VDC                                                                                           |
| External interface            | BT                                                                                              |
| Network interface             | NB-IoT / LTE / LORA                                                                             |
| Supported frequencies         | worldwide                                                                                       |
| Inter-node mesh communication | BLE Mesh / LORA                                                                                 |
| Firmware update               | BLE, LTE                                                                                        |
| Security                      | SHA256 (BLE only), AES256 (BLE Mesh)                                                            |
| Average power consumption     | 0,5W/12V                                                                                        |
| Maximum power consumption     | 1W/12V                                                                                          |
| Real-time lamp operation      | YES                                                                                             |
| Output                        | 0-10V/CCT                                                                                       |
| Light sensor                  | Integrated. ALS RGB,CCT, IR                                                                     |
| Ingress protection            | IP66                                                                                            |
| Operating temperature range   | -30°C to +70°C                                                                                  |
| Zhaga Cover                   | IEC61984                                                                                        |
| Mounting                      | Zhaga book 18                                                                                   |
| Base                          | Zhaga                                                                                           |
| Control                       | 0-10                                                                                            |
| Radar                         | -                                                                                               |
| GSM                           | -                                                                                               |
| LoRa                          | Yes                                                                                             |

## LUMINAIRES CONTROL

Control by Smartphone Application or Remote Control,

## DIMENSIONS (mm)

