Citintelly Luminaire Controller implements Smart Street Lighting control functions using wireless 868 MHz radio communication with mesh-networking protocol. The Citintelly Luminaire Controller has 2 relay outputs and combined DALI/1..10 V control interfaces, as well as two digital inputs and external sensor supply 5 V.

The Citintelly Central Management Software (CMS) allows remote control and monitoring of Luminaire Controllers, storing historical data and analyzing it. The Citintelly Segment Controller is used as gateway between CMS and Luminaire Controllers.
Luminaire controller has IP20 enclosure for protection against accidental contact with live parts.

### Technical data

<table>
<thead>
<tr>
<th>Description field</th>
<th>Qty</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power supply</td>
<td></td>
<td>AC 50-60 Hz</td>
</tr>
<tr>
<td>Supply voltage</td>
<td></td>
<td>220-240 V (Vmin 170 V; Vmax 265 V)</td>
</tr>
<tr>
<td>Temperature range</td>
<td></td>
<td>ta: -40 °C ... +75 °C</td>
</tr>
<tr>
<td>Maximal case temperature</td>
<td></td>
<td>tc: 95°C (see drawing below)</td>
</tr>
<tr>
<td>Relay output</td>
<td>2</td>
<td>1 kVA (NO or NC) each relay output</td>
</tr>
<tr>
<td>Type of load</td>
<td></td>
<td>LED luminaire, LED/HID luminaire ballast, decorative lighting, incandescent bulb</td>
</tr>
<tr>
<td>Electrical meter</td>
<td></td>
<td>Yes (U, I, f, cosF, P, Q, S)</td>
</tr>
<tr>
<td>LED driver control interface</td>
<td></td>
<td>DALI (18 V supply) / 1-10 V</td>
</tr>
<tr>
<td>Digital inputs</td>
<td>2</td>
<td>5 V tolerant</td>
</tr>
<tr>
<td>Supply voltage for external sensors</td>
<td></td>
<td>5 V (50 mA)</td>
</tr>
<tr>
<td>RF network connection</td>
<td>1</td>
<td>868 MHz, IEEE 802.15.4 standard</td>
</tr>
<tr>
<td>Transceiver Class</td>
<td></td>
<td>2 (non-licensed band with external antenna socket)</td>
</tr>
<tr>
<td>Dimensions</td>
<td></td>
<td>LxWxH: 105x50x40 mm</td>
</tr>
<tr>
<td>Weight</td>
<td></td>
<td>160 g</td>
</tr>
<tr>
<td>Case material</td>
<td></td>
<td>PA66 flame-retardant (UL94 V0)</td>
</tr>
<tr>
<td>Conductor cross-section</td>
<td></td>
<td>MAIN: 0.25-2.5 mm², strip length 10-11 mm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>EXT: 0.2-1.5 mm², strip length 8-9 mm</td>
</tr>
</tbody>
</table>

Data subject to change
Safety

According to EN 61347-2-11 and EN 61347-1 – Lamp control gear

RF and EMC matters

• ETSI EN 300-220-2 - Electromagnetic compatibility and Radio spectrum Matters (ERM);
• EN 301 489 - 1 (1.9.2) & 7 (1.3.1) - Electromagnetic compatibility and Radio spectrum Matters
• EN 55015:2013 - Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment
• EN 61547:2009 - Equipment for general lighting purposes - EMC immunity requirements

Chemical

Restriction of Hazardous Substances
Features

- 868MHz based communication featuring self-healing/multi-hoping mesh-type networking protocol with AES128 bit encryption
- Combined DALI/1-10V control output
- External sensor supply 5 V and over DALI line (up to 10 mA)
- 2 relay outputs (NO/NC) and 2 digital inputs
- Energy meter on AC side (U, I, f, cosF, P, Q, S) and data from LED driver (ILED, ULED, P, temperature, minutes of operation)
- Firmware update over the air via CMS application

Smart city

Citintelly products provide full functionality for the smart city. Outdoor lighting is important resource that needs to be managed efficiently. Light should be provided as much as necessary for safety and as little as possible for energy saving. Public lighting has to be in the right place and only there for the citizen wellbeing to avoid light pollution. Citintelly luminaire controllers are equipped with two digital inputs to connect various sensors to enable full lighting control for the city.

The Central Management Software allows to implement electrical energy demand-side management depending the price of electrical energy or budget restrictions.
Ordering codes

LC 2 M 2 3 05 R

Supply voltage
- 230 V
- 110 V

Electrical meter
- None
- Built-in single phase meter

Relay quantity
- 0, 1, 2

Relay Configuration
- NO/NO
- NC/NC

External sensor supply volts
- 5 V

Communication
- Radio

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