



COMMERCIAL CODE	ORDER CODE
WLC_N10	ILM03



APPLICATIONS

- Smart Lighting
- Smart City

CERTIFICATIONS

- 2014/53/UE SAFETY (Art.3.1a RED)
- EN 62368-1:2014
- EN 62311:2008 (ICNIRP Limit)
- EMC emissions and immunity (Art.3.1b RED)
- ETSI EN 301489-1 V2.1.1 class B
- ETSI EN 301489-3 V2.1.1
- ERM (Art. 3.2 RED)
- ETSI EN 300220-2 V3.2.1:2017
- ENEC (ongoing)

ACCESSORIES

- 16 bit lux meter from 3 to 220,000 Lux

Nema-Socket Wireless Node

The node is a wireless point-to-point remote control device designed to make street lighting lamps smart.

It is able to communicate, directly or through other nodes, via 868 MHZ wireless interface, with a Gateway for monitoring and managing the lamp to which it is connected.

The node can operate the lighting fixture directly in ON/OFF mode (with a relay capable of supporting up to 8A@250Vac), with 1-10V or DALI control.

The device receives its power supply (230Vac@50-60 Hz/24Vdc) and mechanical support from the lighting fixture via a 7-pin ANSI 136.41 connector.

TECHNICAL CHARACTERISTICS

ON/OFF CONTROL	Via 8@250Vac relay
LAMPPOST TILT	Accelerometer verification of pole perpendicularity

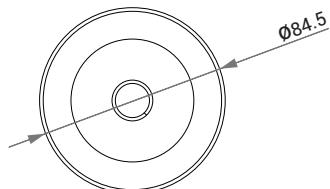
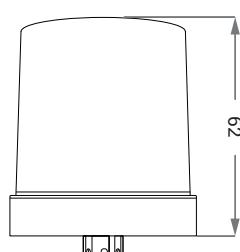
HW FEATURES

OPERATING FREQUENCIES	868/915 MHz
TRANSMISSION POWER	Adjustable up to +14 dBm
RECEPTION SENSITIVITY	Up to -130 dBm
ANTENNA	Internal
COMMUNICATION STANDARD	Mesh network
COMMUNICATION TRANSMISSION	IL1 Intelliennergy
DALI INTERFACE	Non-isolated Master (version 2.0)
ANALOGUE CONTROL	1-10V interface as an alternative to DALI
CLOCK/CALENDAR	HW with Supercap 1F backup (without battery)
ACCELEROMETER	3 axes for system verification and pole tilt up to $\pm 16^\circ$.
POWER SUPPLY	230 Vca 50 - 60 Hz
CONTAINER	IP66 - Transparent polycarbonate, PBT

OPERATING MODE	<ul style="list-style-type: none"> - Controlled or forced by the control centre; - "Stand-alone" light point with astronomical clock and night reduction phases, based on brightness thresholds with hysteresis or virtual midnight; - Timing and brightness can be managed in AND or OR astronomical clock and lux meter
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ASTRONOMICAL CLOCK	When disconnected from the control centre, the system calculates sunrise and sunset with GPS coordinates, advance or delay on sunrise and sunset. Algorithm for calculating "virtual midnight" in the event of unavailability of the internal clock (due to RTC failure, unloaded supercap, etc.);
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DALI OPERATION	<ul style="list-style-type: none"> - Independent management of up to 8 DALI addresses; - Support for up to 8 physical DALI devices; - Management of DALI unicast, group, broadcast commands; - Auto-addressing procedure for DALI devices; - Multi-master DALI support (DALI 2.0); - Management of communication profiles for devices (LED driver)
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APP ON-GO

The **INTELILITY** platform to improve efficiency and productivity in the field is joined by the **ON-GO APP** to support commissioning and maintenance activities.

The APP enables the connection, identification, testing and geo-referencing of nodes and gateways. It also supports the activities of setting up profiles, nodes connected to multiple luminaires, motion sensors and adaptive lighting stations.

INTELILITY

INTELILITY is the CMS (Content Management System) for configuring and managing the Intellienergy tech® **LIGHTING DIVISION** remote control solution. Online 24/7, it can be used either via PC or Tablet or smartphone. Georeferenced management of all telecontrol devices also allows association with the data contained in the census of the relevant lighting points, supports, lines and switchboards. Light points can be divided into groups according to typology and operation; each group can be assigned one or more control profiles, programmed according to calendar or events. Alarms can be configured and sent in different ways according to the events and on-call times of different teams. Data can be displayed graphically on multiple levels and exported locally for further analysis. The system can be integrated with third-party software with standard (e.g. API, MQTT) or customized modes.

