COMMERCIAL CODE	ORDER CODE
WLC_R10	ILM04

DALI · 0/10V · 230Vca 24Vdc · IP20 · Monitoring · Wireless 868
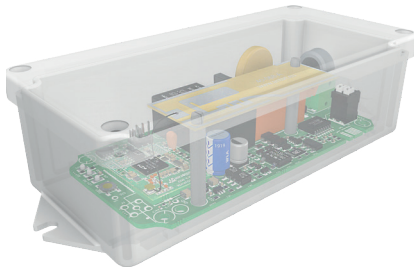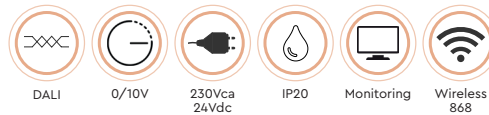
Wireless Node - Retrofitting

• IP20 for installation with LED retrofit kit
• DALI - 0/10V
• Integrated or external PCB antenna

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 central 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 0-10V or DALI control. The device can be powered at 230Vac@50-60Hz (alternatively, 24Vdc).

APPLICATIONS

Smart Lighting - Artistic and Monumental
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)

MODELS

ORDER CODES: ILM04, ILM06, ILM08, ILM09, ILM21, ILM22

TECHNICAL CHARACTERISTICS

ANALOGUE INTERFACE	0–10V luminous flux adjustment
CONTROL LAMP SUPERVISION	Remote switching on and off and verification of lamp consumption with current sensing
DALI INTERFACE	Luminous flux adjustment DALI 2.0 master mode communication up to 8 physical drivers
ON-OFF CONTROL	Using 8A@250Vac relay for the 0-10V version

HW FEATURES

MAIN RADIO FREQUENCY	ISM 868 MHz
TRANSMISSION POWER	Adjustable up to +14 dBm
RECEPTION SENSITIVITY	-130 dBm
ANTENNA	Internal or external with SMA connector
COMMUNICATION STANDARD	Mesh network
COMMUNICATION TRANSMISSION	IL1 Intellienergy
DALI INTERFACE	Non-isolated Master (VERSION 2.0)
ANALOGUE INTERFACE	0-10V for luminous flux control/alternative to DALI
CLOCK	HW backed up by Super cap 1F (battery free)
LAMP CONTROL	ON/OFF using 8A@250Vca relay for 0-10V version
POWER SUPPLY	230 Vca 50-60Hz/24Vdc
OPERATING MODE	Pre-set "stand alone" based on virtual midnight and with programming from Intellicity CMS through gateways
EMERGENCY OPERATION	Last profile loaded when disconnected from the operations centre
DALI OPERATION	- Support for up to 8 DALI drivers; - unicast, group broadcast DALI control management, - Auto-addressing procedure for DALI devices; - Reading/writing registers and DALI memory; - DALI reading of standard values (effective dimmer, driver error, faulty LED, etc..) and custom values (current, voltage, temperature, operating time, memory, etc.); - Multi-master DALI support (DALI 2.0); - Management of communication profiles for devices (LED driver) displaying useful information on the DALI but not in a standard position; - Possibility of DALI sending of dimming values to the LED driver on a linear or logarithmic scale.

41
32.3
132
151.7
64.1
136.1
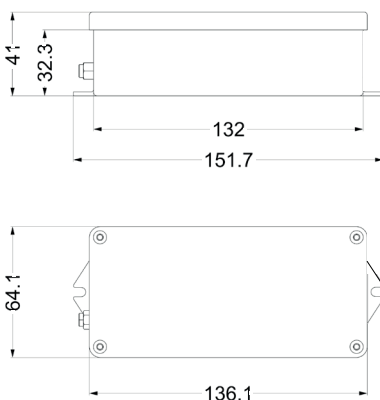
APP ON-GO

The **INTELLICITY** 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.

INTELLICITY

INTELLICITY 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.