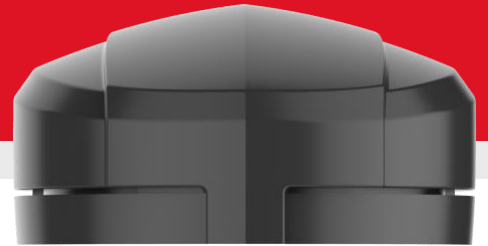


NOVALIGHT OLC NEMA LEGACY NL-OLCN-L-XX-010

OUTDOOR LIGHT CONTROLLER WITH NEMA 7-PIN FORMAT

The NovaLight OLC NEMA Legacy is a street light controller. It can be installed easily on a street light head equipped with a NEMA 7-PIN connector and connects to a centralized software over a robust 869 MHz wireless mesh network.



AT A GLANCE

NovaLight OLC NEMA Legacy controllers give full control over a street lights installation in terms of remote control and monitoring. Substantial energy and operational savings can therefore be achieved.

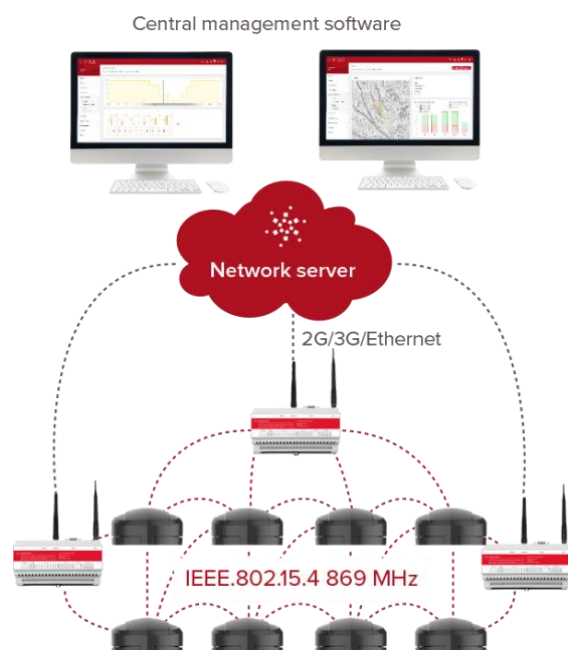
The OLC NEMA Legacy can be installed very easily on a street light head thanks to the standardized NEMA 7-PIN connector format. The controller features lighting switching on/off, dimming profiles application, fault detection and energy and power consumption measurement.

The solution relies on a powerful mesh network. This network follows new state of the art Industrial Internet of Things standards and works in 869 MHz frequencies offering excellent performance in terms of range and power consumption. Redundancy in the network is high because each device can relay information to its neighbors (mesh network). Furthermore, all transmissions are encrypted with AES-128 algorithm in order to ensure security.

- Dimming profiles
- Astronomical clock
- Energy and power consumption measurement with +/- 2% precision (voltage, current, power factor, frequency, power)
- Fault detection (connection, ballast, light, measurement thresholds, etc.)
- 230VAC power supply
- Industrial IoT Wireless Mesh Network IEEE 802.15.4 - 869 MHz
- AES-128 encryption within the mesh network
- Over-the-air reprogramming

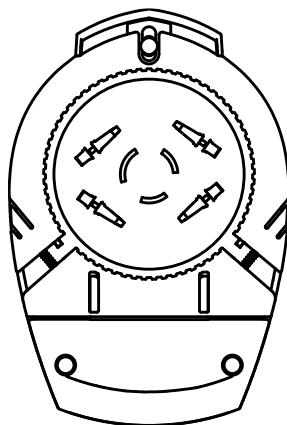
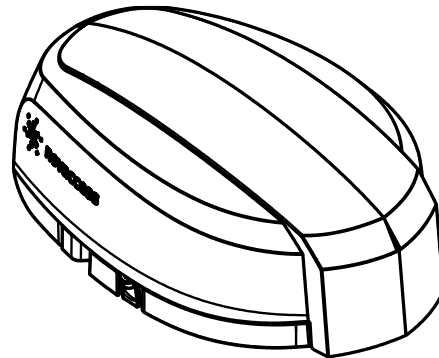
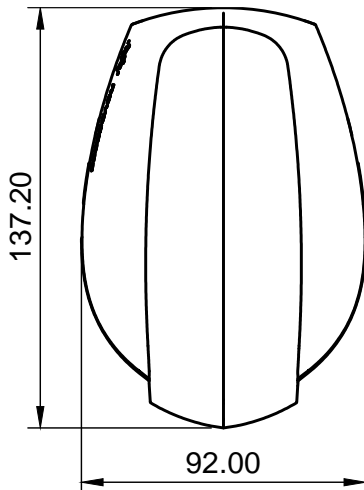
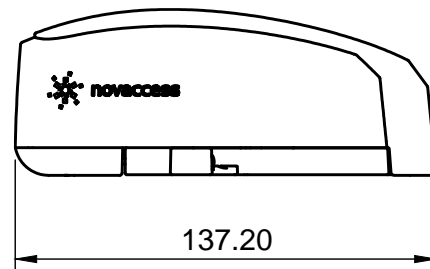
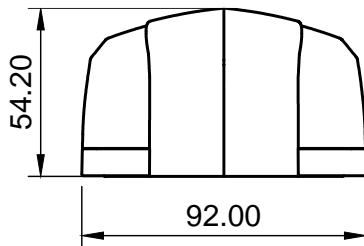
KEY FACTS

- NEMA 7-PIN connection
- Streetlight remote control and monitoring thanks to DALI or 1-10V interface

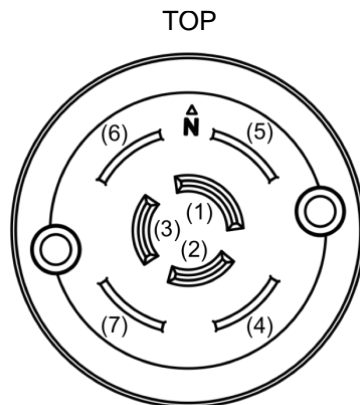


TECHNICAL CHARACTERISTICS

PHYSICAL PARAMETERS	MIN	TYP	MAX	UNIT
Width	92.00	92.10	92.20	mm
Height	54.10	54.20	54.50	mm
Depth	137.10	137.20	137.3	mm



OLC



Connector

- (1) NEUTRAL [WHITE]
- (2) LI PHASE IN [BLACK]
- (3) LO PHASE OUT [RED]
- (4) DA+ (DALI+) / DIM+ (1-10V) [PURPLE]
- (5) DA- (DALI-) / DIM- (1-10V) [GREY]
- (6) - [BRAUN]
- (7) - [ORANGE]

ELECTRICAL CHARACTERISTICS	MIN	TYP	MAX	UNIT
Input Voltage	85	230	264	VAC
Frequency	47	50	63	Hz
Load maximum power	-	-	600	W

ENVIRONMENTAL PARAMETERS	MIN	TYP	MAX	UNIT
Ambient temperature	-30	-	+70	°C
Relative humidity	10	-	90	%RH
IP Protection	-	IP66*	-	-

* In order to guarantee street light impermeability, a NEMA connector gasket is delivered along with the OLC

DALI PSU	VALUE	UNIT
Max output current	50	mA

1-10V	VALUE	UNIT
Max source/sink current	2	mA

NOVACOM WIRELESS MESH NETWORK	MIN	TYP	MAX	UNIT
Frequency	-	869.525	-	MHz
Bitrate	-	38.4	-	kbps
Power	-	-	100	mW
Sensitivity	-	-104	-	dBm

CONFORMITY

Mark	CE (RED)
EMC	EN 301 489-3
SRD	EN 300 220-1/-2
Safety	EN 60950-1

ORDER INFORMATION

TYPE	COLOR	
	Light gray (RAL7040)	Dark gray (RAL7015)
NovaLight OLC NEMA Legacy	NL-OLCN-L-LG-010	NL-OLCN-L-DG-010

REVISION HISTORY

REVISION	DATE	COMMENTS
R01	June 8, 2019	Initial release
R02	July 23, 2019	Document format adaptation

CONDITIONS

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