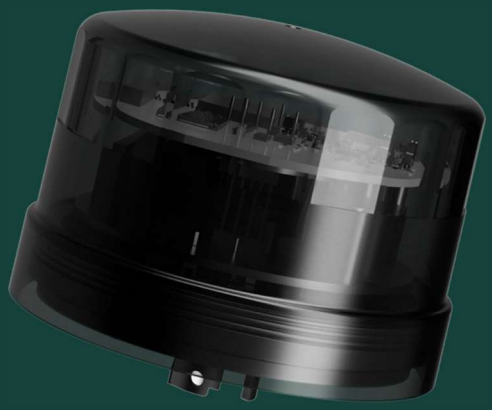
SLC-N203-C

Street Light Controller NEMA203-C



Product Description

The SLC-N203-C is an advanced street light controller designed for LED fixtures with NEMA sockets. All lamps with NEMA sockets can now be integrated and connected with esave solutions. This controller features motion sensing, GPS positioning, and global cellular connectivity, enabling intelligent and efficient street light management. Through an automatic 2.4 GHz mesh network, it facilitates seamless communication between controllers and gateways, providing "light on demand" based on real-time conditions.

BENEFITS

- Operational cost savings through remote monitoring and real-time maintenance.
- Display of the current luminaire status data.
- Track and evaluate your energy use.
- Remote monitoring of individual controllers without gateway (eSIM included).
- Support DALI DT6, DT7 and DT8

FEATURES

Remote Management
The Light Management Platform provides real-time and historical data of the entire lighting network. It allows the remote management and control of all connected lighting points using a user-friendly cloud interface.

On-Site Management
The intuitive, easy-to-use configuration tool allows the on-site configuration of all parameters (i.e., dimming level etc.) for either an individual or a group of luminaires.

Global Cellular Connectivity
Preinstalled eSIM for instant data connection worldwide. Protocols supported: LTE Cat M1, NB-IoT NB2, EGPRS.

Automatic GNSS Positioning
The GNSS receiver provides precise, geo-located date/time data, enabling the accurate and automatic control of the lighting behavior.

Mesh Network
The Communication is ensured via an automatic, organizing 2.4 GHz mesh network. Each streetlight communicates with all luminaires which can be reached.

AstroDim
AstroDim provides the accurate sunrise and sunset timing of the very location as a basis for the definition of the light control profiles.

Brightness Sensor
With the integrated brightness sensor, the light can be automatically switched on or off depending on the ambient light level.

Tilt Sensor
Detects X, Y, and Z-axis movements through integrated inclination sensing. Generates alerts when changes in inclination occur, such as in the event of a collision of a road user with a pole.

Temperature Sensor
With the integrated temperature sensor, the controller can be actively monitored. By regularly checking the information about the luminaire status, proactive maintenance and failures can be avoided.

Gateway Function
Remote monitoring of individual controllers without gateway

CE

CERTIFIED

eSIM

Works with OSRAM DEXAL®

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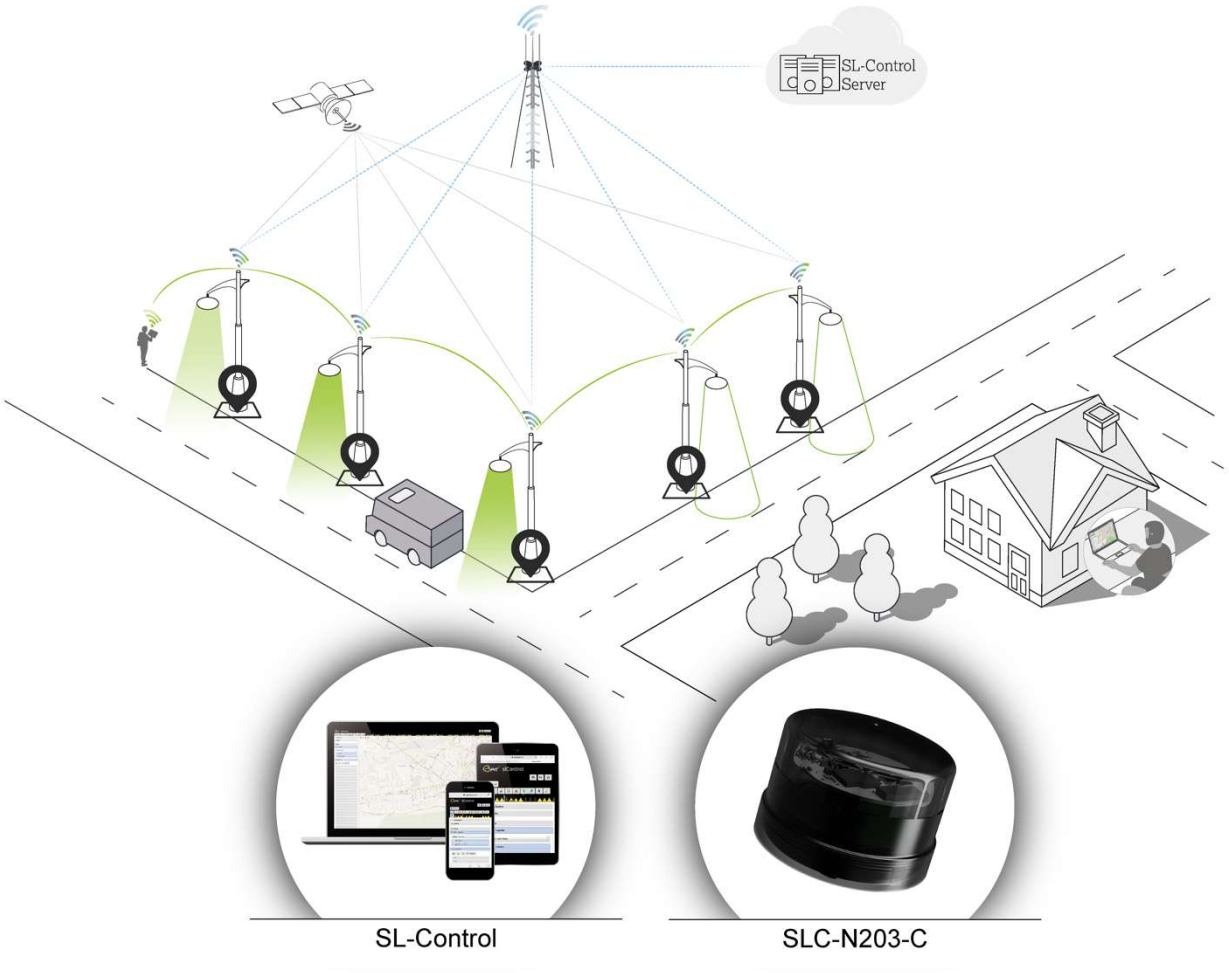

Thanks to the integrated eSIM and gateway function, an SLC-N203-C can establish a connection to the SLControl web platform while maintaining a network with all other esave equipped lights within reach.

No necessary to perform SAR Testing.
This device meets the EU requirements on the limitation of exposure of the general public to electromagnetic fields by way of health protection. The device complies with RF specifications when the device used at 30 cm from your body.

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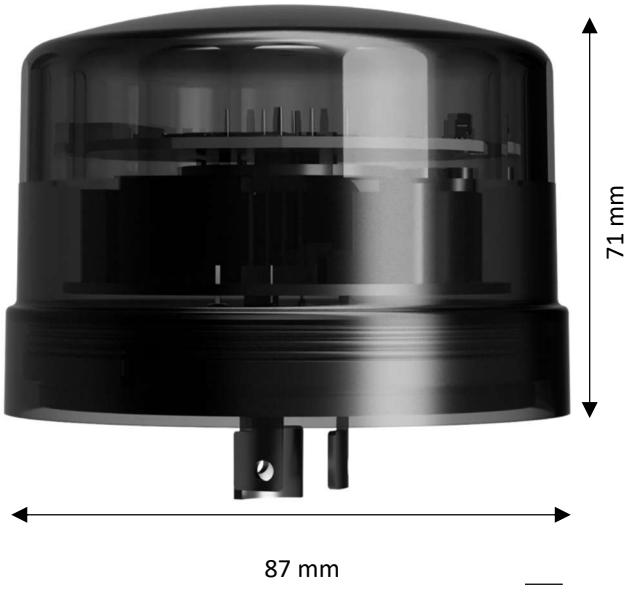
DIMENSIONS & WEIGHT

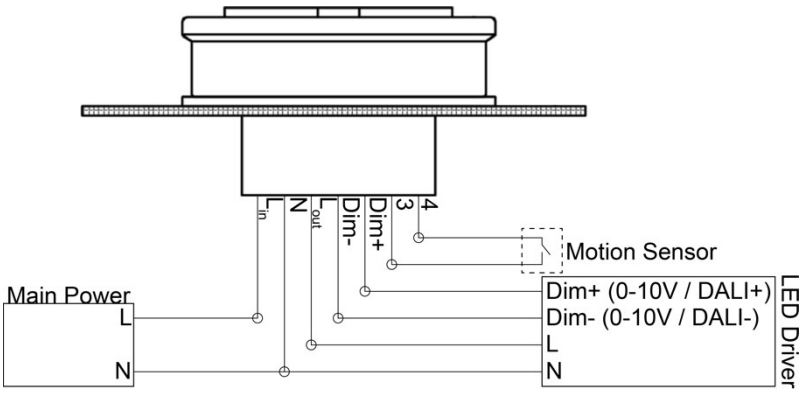
SLC-N203-C

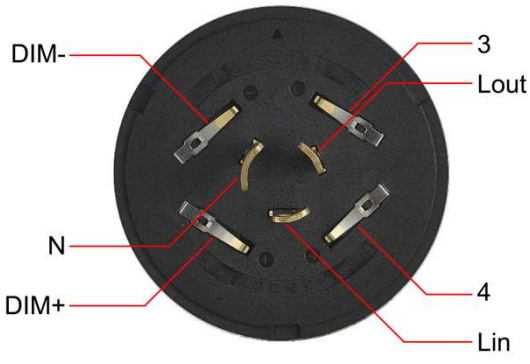


Width	87 mm
Height	44 mm
Product weight	73 g

Outer diameter	30.0 mm
Height without plug	28.4 mm
Thread length	18.7 mm
Thread pitch	M20 x 1.5
Material	PBT
Wire size	20-16 AWG (0.5 - 1.5 mm^2)
Mounting	Torque mounting nut 1.8 to 2.4 Nm using a 27 mm hex socket

Wiring





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Maximum Ratings

Power supply max. voltage range	120-277 VAC (applicable 105-305 VAC)
Power supply frequency	50/60HZ
Storage temperature range	-40~+70℃

Operating Characteristics

Supply voltage range	120-277 VAC (applicable 105-305 VAC)
Current input	6 – 60 mA
Surge protection	10KV, 5KV
Power supply energy consumption	≤ 1.5W
Operating temperature	-40~+70℃
DALI input current	2 mA
Max. switching current of the Relais	15A
For 0-10V output version-> Max. Analog output current	20mA

Mesh characteristics

RF frequency range	2.420 – 2.480 GHz
RF nominal output power	+8 dBm
RF maximal output power	+10 dBm
Receiver sensitivity	-100 dBm

Cellular characteristics

Protocols	LTE Cat M1, NB-IoT NB2, EGPRS
Frequency Bands (MHz)	CAT M1: B1/B3/B5/B8/B20/B28 NB-IoT NB2: B1/B3/B5/B8/B20/B28 EGPRS: 900/1800 MH

Mode	Frequency Range (MHz)	Output Power (dBm)
GSM 900	880 ~ 915	25.83
GSM 1800	1710 ~ 1785	23.09
LTE Cat M1 Band 1	1920 ~ 1980	22.00
LTE Cat M1 Band 3	1710 ~ 1785	22.00
LTE Cat M1 Band 5	824 ~ 849	22.00
LTE Cat M1 Band 8	880 ~ 915	22.00
LTE Cat M1 Band 20	832 ~862	22.00
LTE Cat M1 Band 28	703 ~ 748	22.00
LTE Cat NB Band 1	1920 ~ 1980	22.00
LTE Cat NB Band 3	1710 ~ 1785	22.00
LTE Cat NB Band 5	824 ~ 849	22.00
LTE Cat NB Band 8	880 ~ 915	22.00
LTE Cat NB Band 20	832 ~ 862	22.00
LTE Cat NB Band 28	703 ~ 748	22.00

Housing

Dome material	Polycarbonate
Dome color	Transparent Smoke Gray
Body material	PBT
Body color	Grey
IP rating	IP66
IK rating	IK10

2 Different SLC-N203 Models

Dome material	Cellular	Output Type
SLC-N203-CA	Yes	Analog (1 - 10V)
SLC-N203-CD	Yes	DALI