



Product Description

The SLC-Motion203-G LD is a smart street lighting controller that incorporates motion sensing for LED luminaires with a Zhaga connector. It offers intelligent street light control and a "light on demand" solution in one highly integrated product. The adjustable motion sensor automatically responds when detecting an object in the detection area, and communication is enabled via an automatic 2.4 GHz mesh network.

The SLC-Motion203-G LD is a D4i / Type A device and SR certified.

Benefits

- Operational cost savings through remote monitoring and real-time maintenance.
- Evaluation of traffic volume
- Display of the current luminaire status data.
- Track and evaluate your energy use.
- Can be managed by Cellular Devices or SL-Gateway
- Support DALI DT6, DT7 and DT8 TC / RGBW

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

Equipped with one or two standard Lumawise Endurance S socket for plug and play controller integration.



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

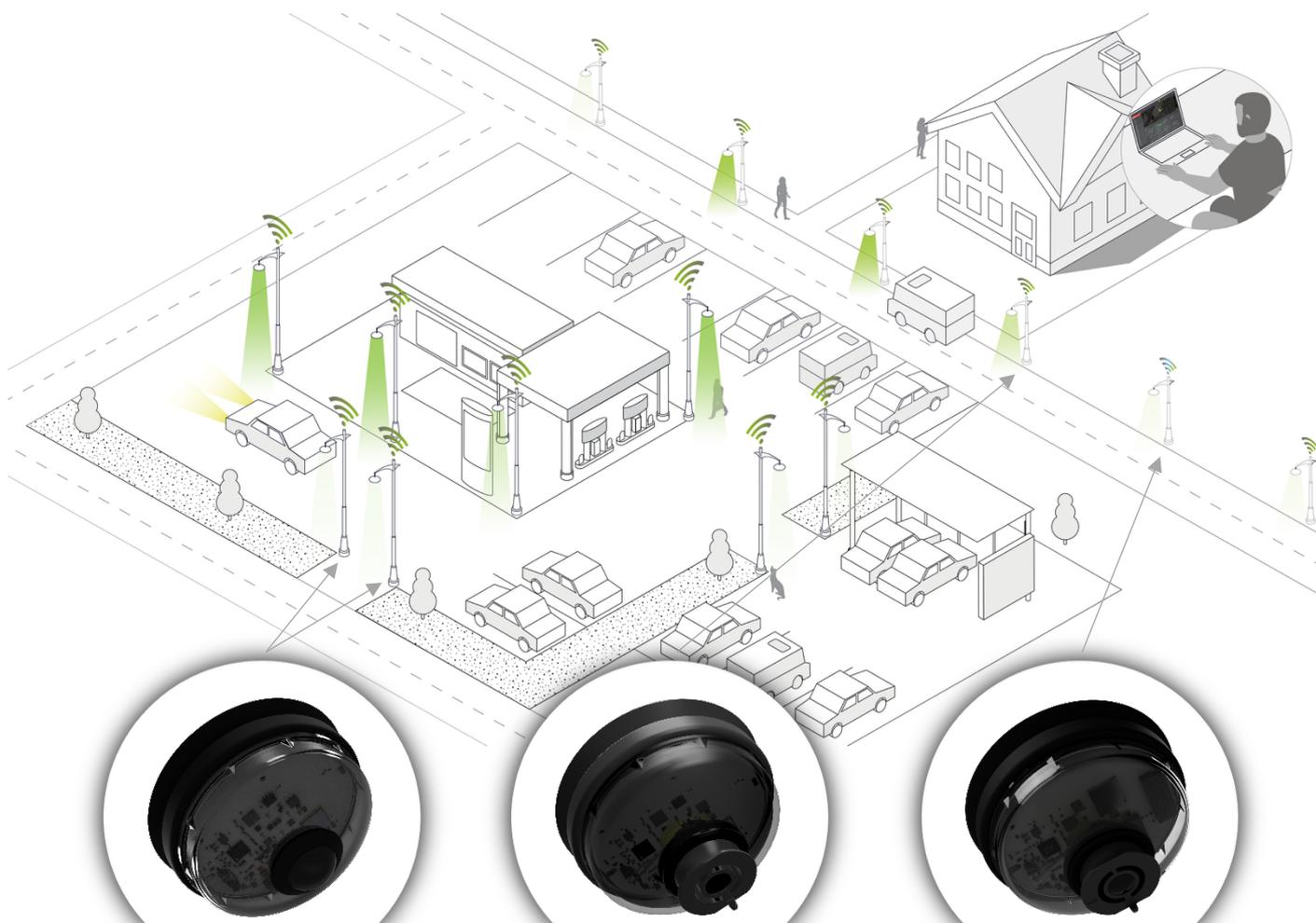
Detects X, Y, and Z-axis movements through integrated inclination sensing. Generates alerts when changes in inclination occur, such as in the event of a collision of a road user with a pole.



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.





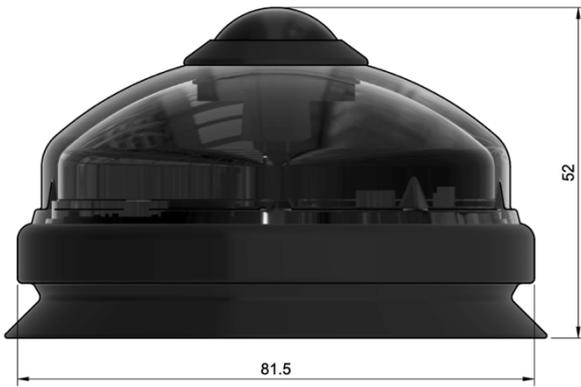
SLC-Motion203-G LD

SLC-Motion203-G ST / HS

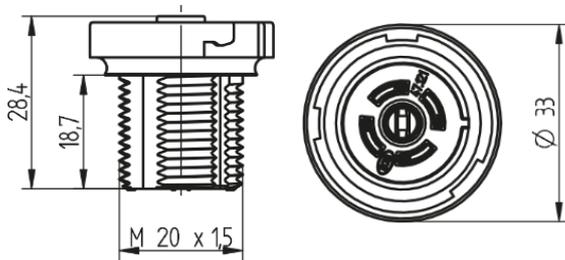
SLC-Motion203-C ST / HS

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

Dimensions & Weight

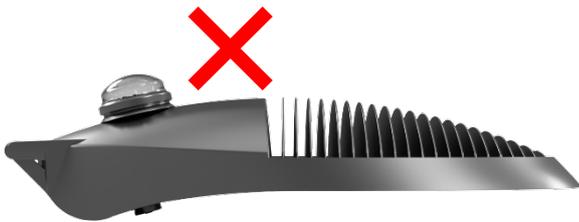


Width	81.5 mm
Height	52 mm
Weight	80 g



Outer diameter	30 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-9)
Mounting	Torque mounting nut 1.8 to 2.4 Nm using a 27 mm hex socket

Installation



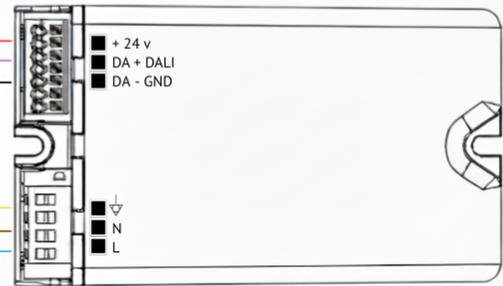
Wiring Diagram



1 + 24 v
3 DA + DALI
2 DA - GND

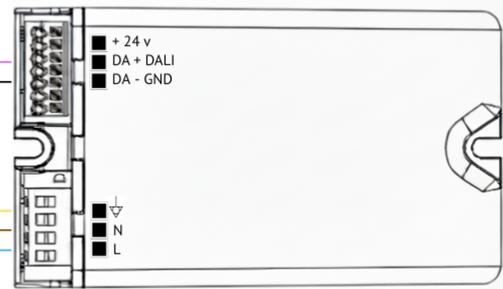
L
N

Channel 1 - DALI Address 0

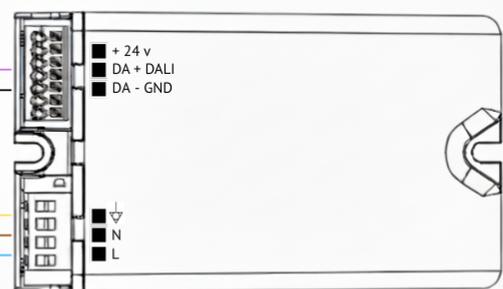


Optional

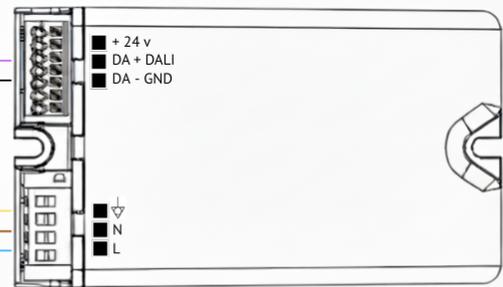
Channel 2 - DALI Address 1



Channel 3 - DALI Address 2

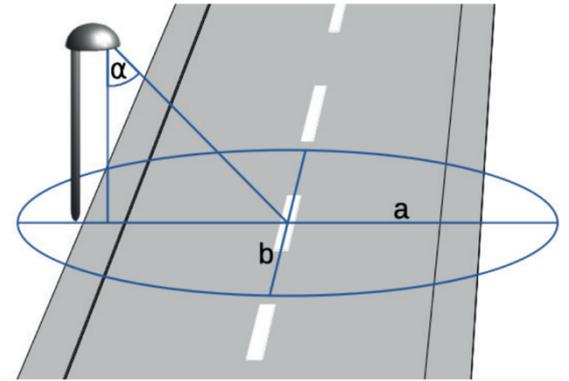


Channel 4 - DALI Address 3



Alignment Angle

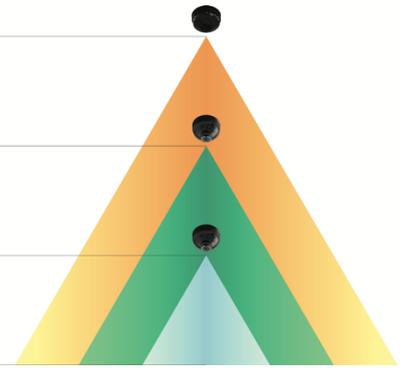
Height		Alignment angle (α)			
		0°	10°	20°	30°
5m	A	5.7	6.0	7.5	11.8
	B	5.7	5.7	6.0	6.5
6m	A	6.8	7.3	9.0	
	B	6.8	6.9	7.2	
7m	A	7.9	8.5	10.5	
	B	7.9	8.0	8.4	
8m	A	9.0	9.7		
	B	9.0	9.2		
9m	A	10.2	10.9		
	B	10.2	10.3		
10m	A	11.3	12.1		
	B	11.3	11.5		
11m	A	12.4			
	B	12.4			
12m	A	8.7			
	B	8.7			
13m	A	9.4			
	B	9.4			
14m	A	10.2			
	B	10.2			
15m	A	10.9			
	B	10.9			
16m	A	11.6			
	B	11.6			
17m	A	12.4			
	B	12.4			
18m	A	13.1			
	B	13.1			



Long Distance (LD)
Height: From 12 m up to 18 m

High Sensitive (HS)
Height: From 6 m up to 12 m

Standard (ST)
Height: From 0 m up to 6 m



Maximum Ratings

Power supply max. voltage range	0 – 34 V DC
Current Input	6 – 60 mA
Storage temperature range	-40 ~ +90 °C

Mesh Characteristics

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

Operating Characteristics

Supply voltage range	12 – 30 V DC typ. 24 V DC
Current input	7 – 15 mA
Average Power usage	180 mW
Signal input (motion detection)	$V_{MOT\ HIGH\ Level}: 12 - V_{CC}$ $V_{MOT\ LOW\ Level}: 0.0 - 0.5\ V$
Operating temperature	-40 ~ +80 °C
DALI input current	Max: 250 mA

Housing

Dome Material	Polycarbonate
Dome Color	Transparent Smoke Gray
Body color	Grey
Body Material	PBT
IP Rating	IP66
IK Rating	IK09

All information has been carefully checked. Nevertheless, errors and technical changes are reserve.