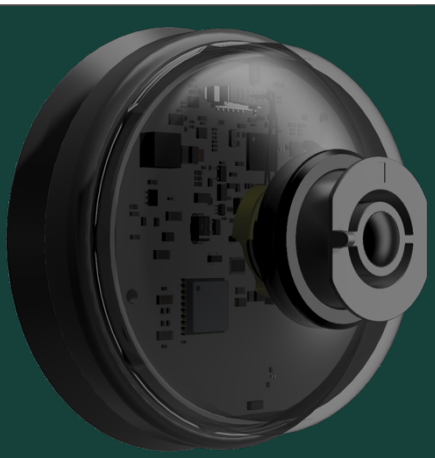
SLC-Motion203-G



Product Description

The SLC-Motion203-G is a smart street light controller that incorporates motion sensing and GPS positioning for LED luminaires with Zhaga connector system.

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 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
- The controller can output its own position with the support of automatic GNSS positioning
- Can be managed by Cellular Devices or SL-Gateway
- Support of 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
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.

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.

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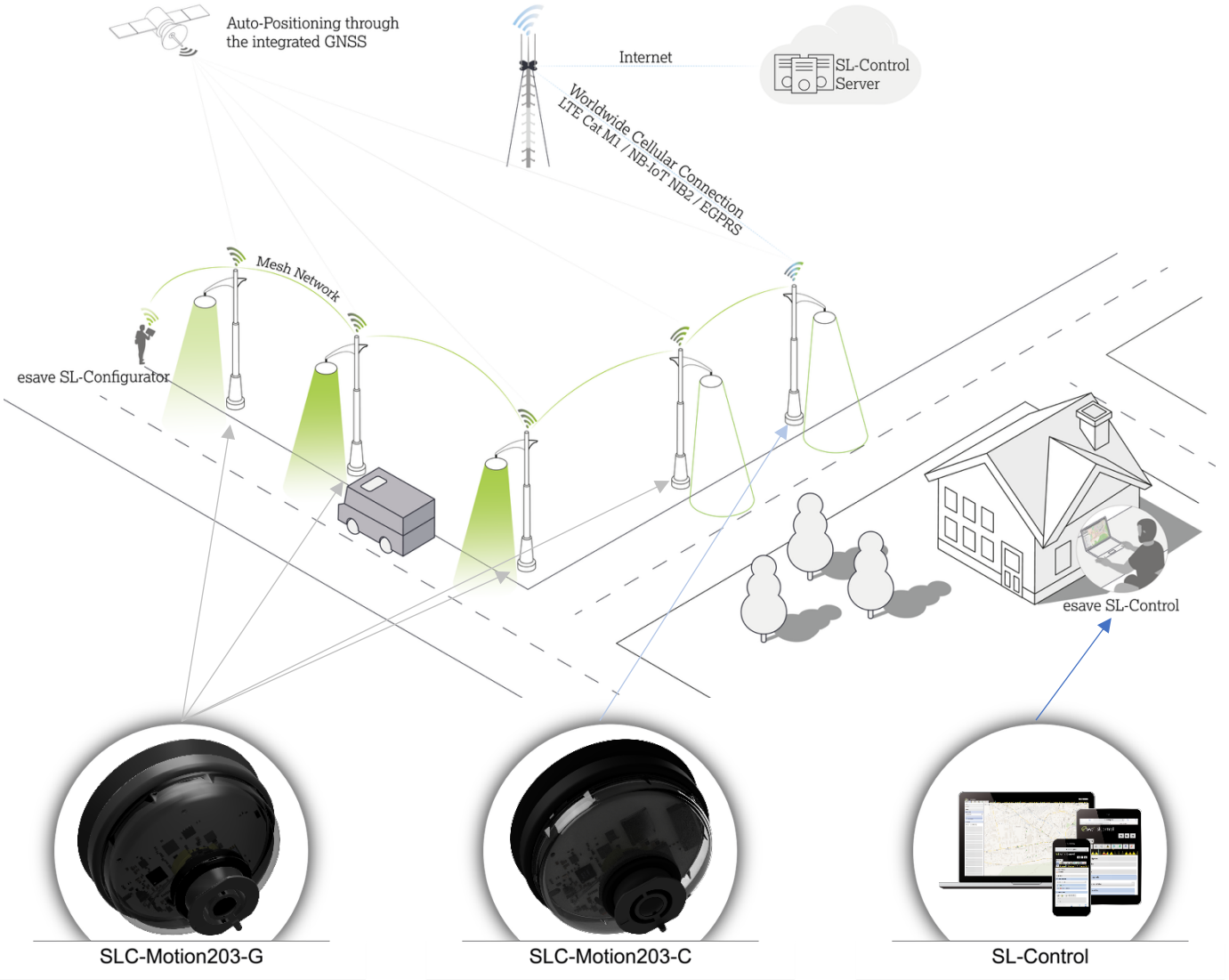

Because the SLC-Motion203-G has a GNSS module assembled, the device can automatically output its coordinates and automatically display itself on the map in SL-Control or SL-Configurator

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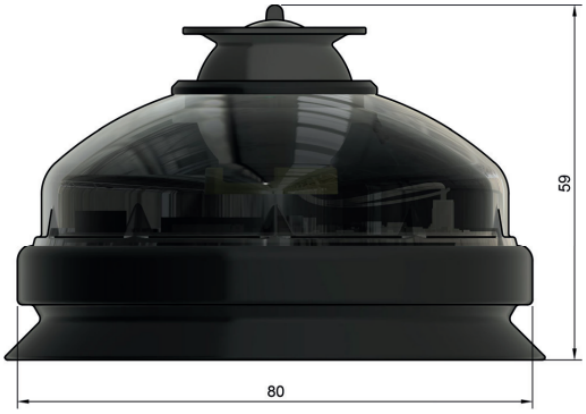
SLC-Motion203-G

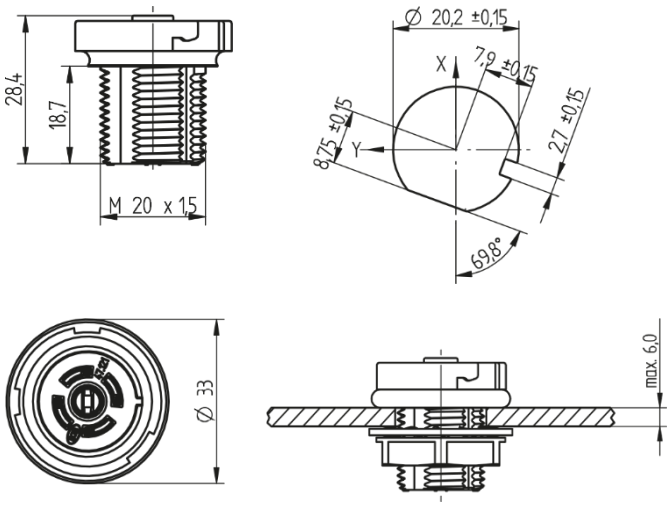
DIMENSIONS & WEIGHT

SLC-Motion203-G



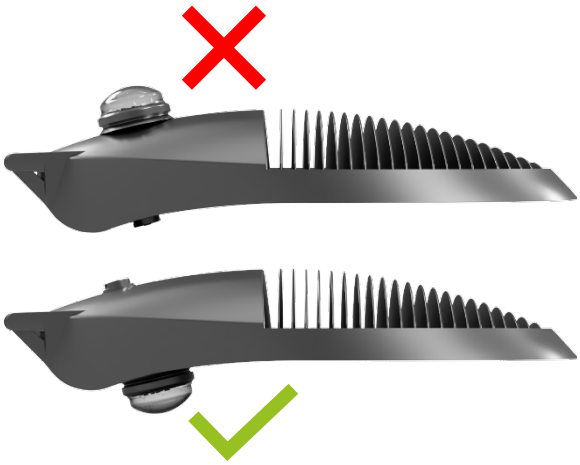
Width	81.5 mm
Dome width	80 mm
Height	59 mm
Product weight	80 g

Zhaga Connector



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

INSTALLATION



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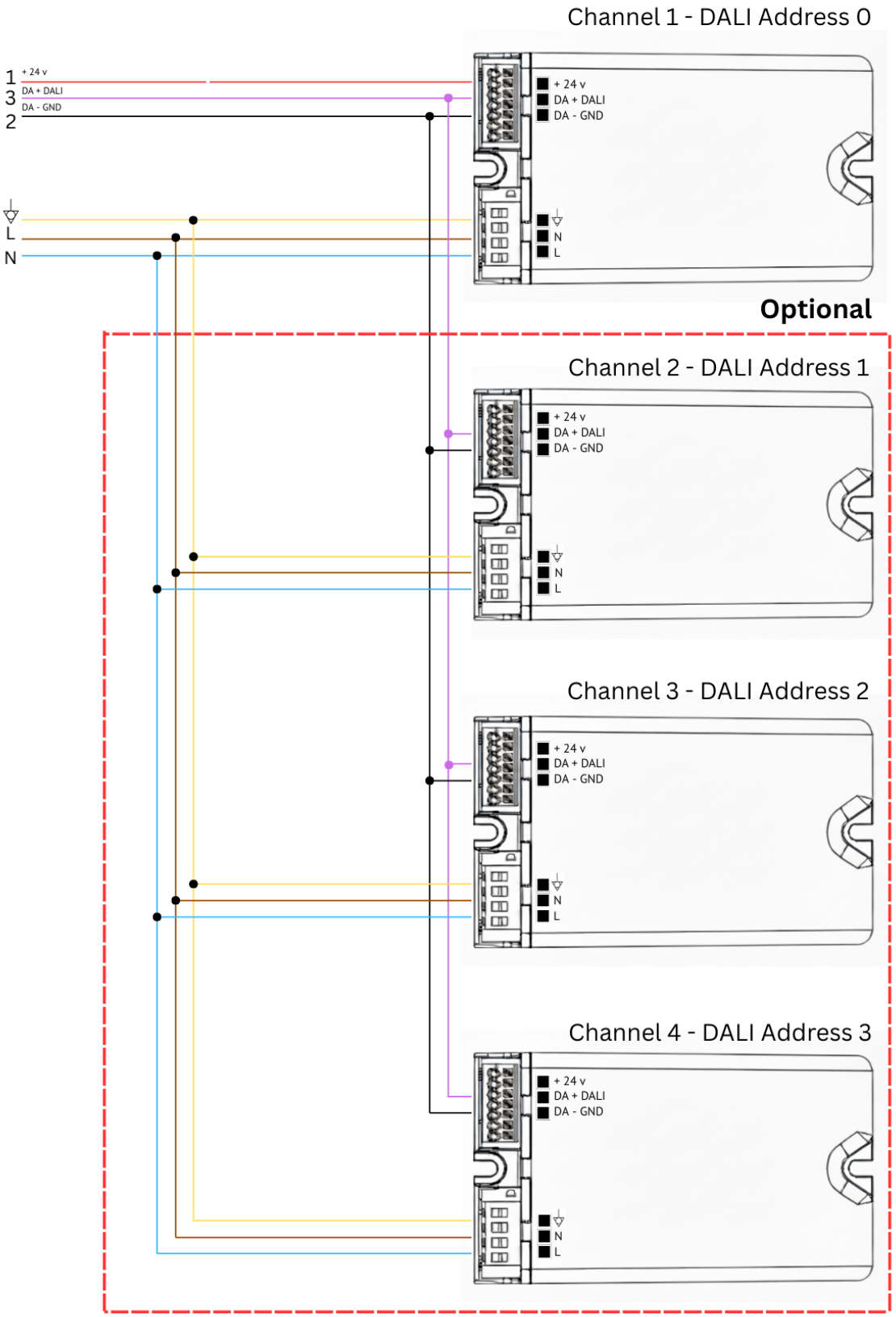
WIRING



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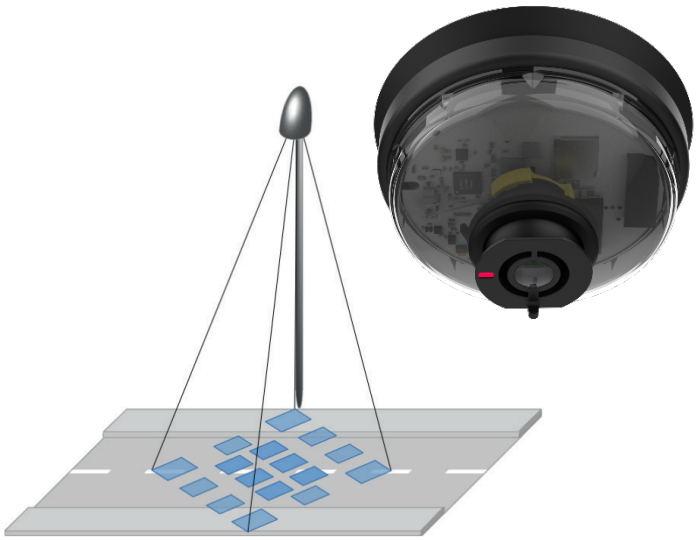
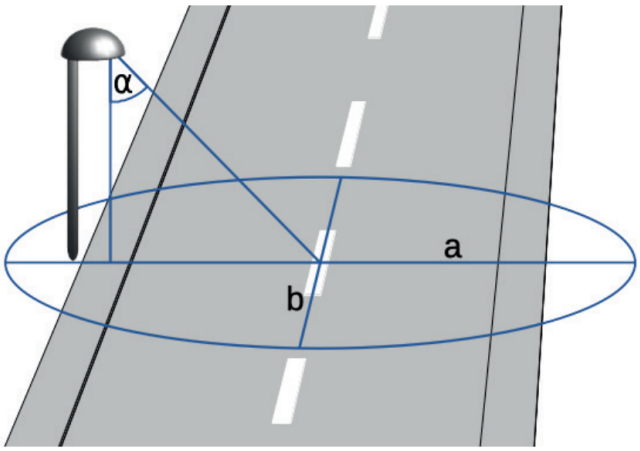
SENSOR ALIGNMENT

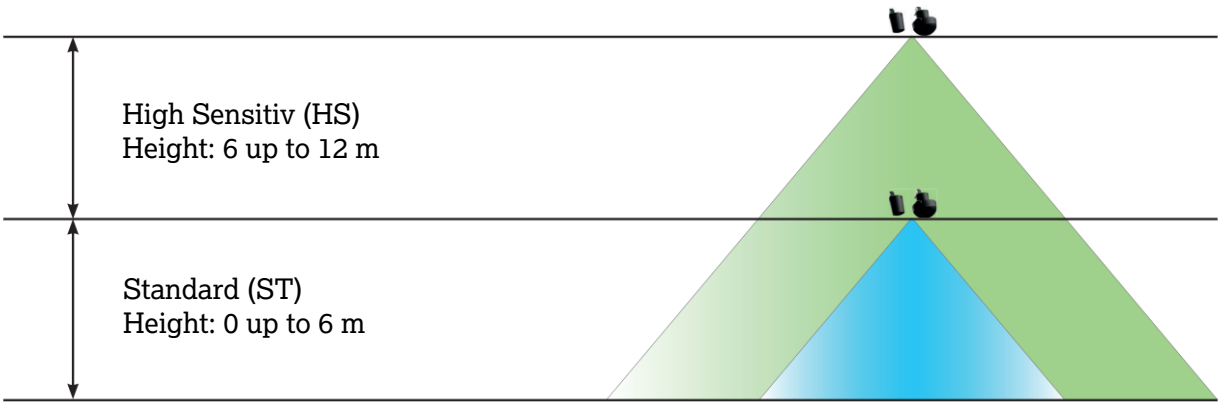
- The small marker should point to the centre of the road
- This results in a detection field of 45° for optimal performance
- The PIR adapter allows the tilt of the sensor in all directions



Alignment Angle

Height		Alignment angle (α)			
		0°	10°	20°	30°
5m	a	8.4	8.8	10.5	14.6
	b	8.4	8.5	8.9	9.7
6m	a	10.1	10.6	12.6	
	b	10.1	10.2	10.7	
7m	a	11.7	12.4	14.7	
	b	11.7	11.9	12.5	
8m	a	13.4	14.2		
	b	13.4	13.6		
9m	a	15.1	15.9		
	b	15.1	15.3		
10m	a	16.8	17.7		
	b	16.8	17.0		
11m	a	18.5			
	b	18.5			





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Maximum Ratings

Supply Voltage	0 – 34 V DC
Current Input	6 – 60 mA
Storage temperature	-40…+90°C

Operating parameters

Supply voltage range	12 – 30 V DC | typ. 24 V DC
Current input (24 V DC)	7 – 15 mA
Average Power usage (24 V DC)	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
Protection class	IP66

Mesh characteristics

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

Materials & Colors

Dome material	Polycarbonate
Dome color	Transparent Smoke Gray
Body material	PBT
Body color	Grey
Impact Protection	IK09