SLC-Motion203

Product Description

The SLC-Motion203 is a smart street light controller 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, communication is enabled via an automatic 2.4 GHz mesh network between controllers and gateways. Support for motion sensors to meet a wide variety of functional requirements.

The SLC-Motion203 is a D4i ready / 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 SLC-Hub-C or SLC-Gateway

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.

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.
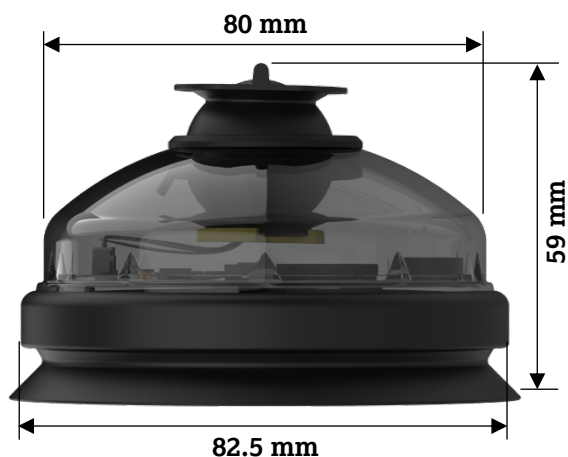
Motion Sensor
Through the use of motion sensors, the lighting becomes dynamic. Once the sensors register movement in the illumination area, light intensity is automatically increased to a higher level.
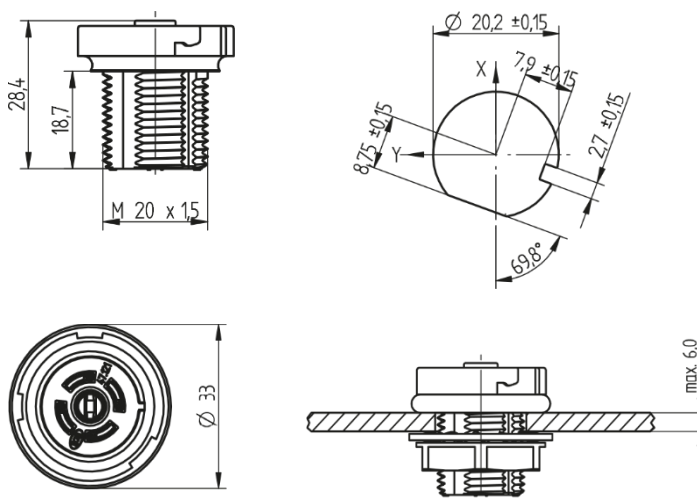
esave SLC-Motion203

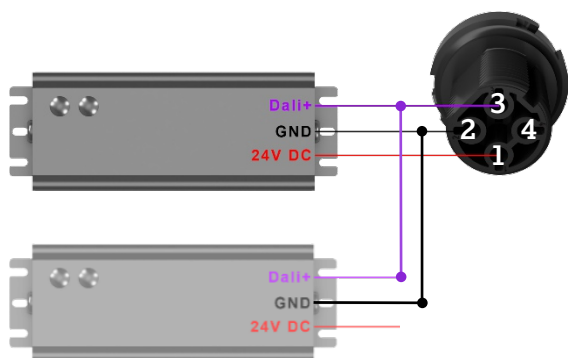**esave SL-Control**

DIMENSIONS & WEIGHT

SLC-Motion203

Width	82.5 mm
Dome width	80 mm
Height	59 mm
Product weight	79 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 mm²)
Mounting	Torque mounting nut 1.8 to 2.4 Nm using a 27 mm hex socket

WIRING

Note: The controller supports up to 4 LED Drivers simultaneously.

INSTALLATION
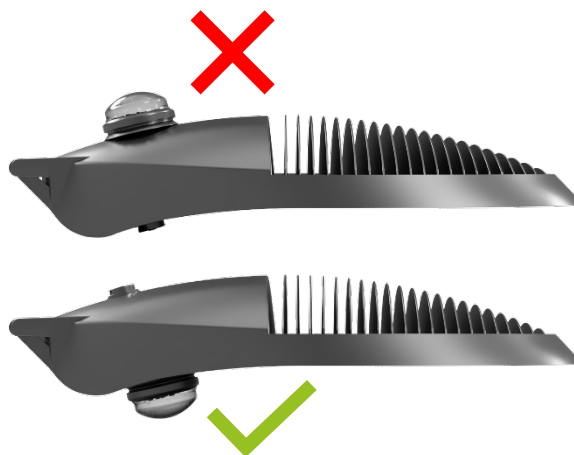
SENSOR ALIGNMENT

- Rotate the detection field 45°
- The small marking should point towards the middle of the street
- The PIR adapter allows to point the sensor in different directions
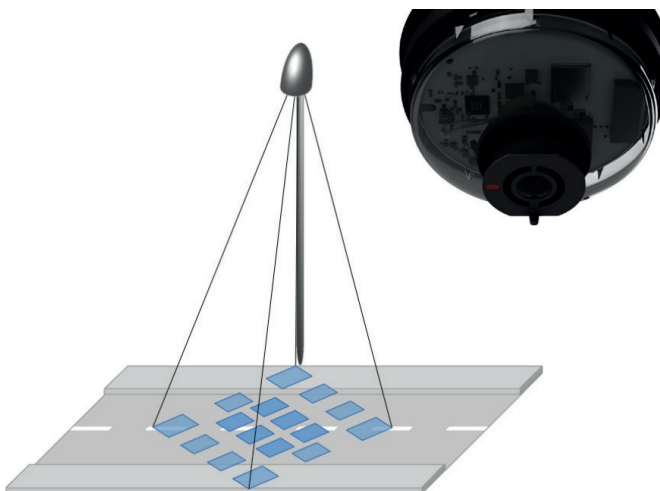
Alignment Angle

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			
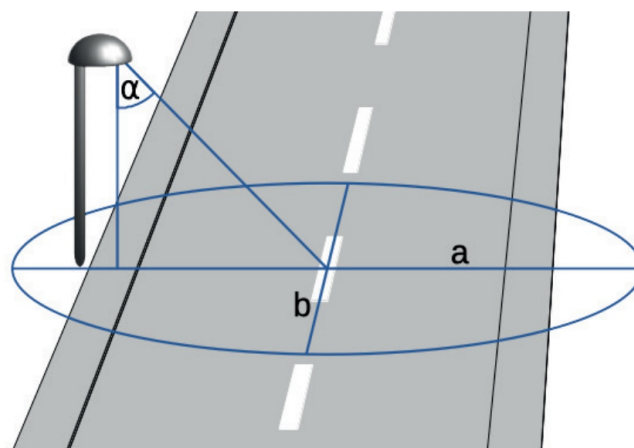
SLC-Motion203   ST

SLC-Motion203   HS

SLC-Motion203   HS
Height: 6 up to 12 m

SLC-Motion203   ST
Height: 0 up to 6 m

Maximum Ratings

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

Operating Characteristics

Supply voltage range	12 – 30 V DC	typ. 24 V DC
Current input (24 V DC)	7 – 15 mA
Power usage (24 V DC)	180 mW
Signal input (motion detection)	$V_{\text{MOT HIGH Level}}$: 12 – V_{cc}	$V_{\text{MOT LOW Level}}$: 0.0 – 0.5 V
Operating temperature	-40…+80 °C
DALI input current	max: 250 mA
Protection class	IP66

Wireless 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

Disclaimer

Subject to change without notice. esave ag reserves the right to make changes in specifications and/or to discontinue any product at any time without notice or obligation. Always make sure to use the most recent release.

Headquarters and Locations

esave ag
Headquarters
La-Nicca-Strasse 6
7000 Chur
Switzerland

Phone: +41 81 511 55 50
Support: +41 81 511 55 52
info@esaveag.com
support@esaveag.com
www.esaveag.com

esave Deutschland GmbH
Germany Office
Phone: +49 2152 807 888 0
a.sommer@esavegmbh.de

esave Aus pty. ltd.
Australia Office
Phone: +61 413 920 225
a.spottiswood@esaveag.com

esave ag APAC
Asia Office
Phone: +65 6844 1912
Support: +65 9699 0958
chris.lee@esavesg.com

esave USA Inc.
North America Office
Phone: +1 701 713 4847
info@esave-usa.com

esave (Zhejiang) intelligent technology co. ltd.
China Office
Phone: +86 131 8246 0652
13182460652@163.com

esave Technologies SRL
Romania Office
Phone: +40 728 115205
office@esave-romania.ro

esave Middle East
Middle East Office
Phone: +971 (56) 696 1910
esave.me@esaveag.com

Panitek Smart Energy Private Ltd.
India Office
office@panitek.com