## AirSLC-100/NEMA | Street light controller - NEMA socket

DALL





• Used for remote control of the luminaire: ON / OFF / DIMM.

- · Measures current flow fault detection (ballast fault, light source, connecting wires ...)
- · Communicates over the wireless LPWAN network (LoRa or NB-IoT).
- Output signal 0 (1) -10V or DALI for direct control of ballast in luminaire.
- Internal digital light intensity sensor, range 5 100,000Lx.
- Internal digital temperature sensor in the range -30 ... 70 ° C.
- Power supply: 100-230 V AC, Power 3.5 VA.
- The IP66, UV-resistant, is designed for outdoor mounting in the NEMA socket.
- Update using the RFAF / USB Service Key.

Connection standard: Standard ANSI C136.41 Dimming Receptacle.

Technical parameters	AirSLC-100L/ NEMA/DALI	AirSLC-100NB/ NEMA/DALI	AirSLC-100L/ NEMA/0-10	AirSLC-100NB/ NEMA/0-10	Example connection
Supply voltage::	AC 100 - 230 V AC				Connection 0 (1) -10
Power:	3.5 VA				
Supply voltage tolerance:	-10 /+15 %				
Standby consumption:	0.5 W				
Consumption max.:	at 2 W communication				
Temperature sensor					
Range:	-30 70°C				
Accuracy:	±1°C in the range -10°C 70°C				
	±3°C in the range -30°C10°C				
Light sensor					
Scanned Range:	5 - 100 000 Lx				
Detection angle:	130°				
Indication					
- blue LED:	module power supply				
- green LED:	STATUS module				
- red LED:	LPWAN communications				N
Inputs					Description of wiring
Communication Interface:	DALI		Analog		contacts:
	polarized - active (20 mA)		0(1)-10 V (20mA)		1. 0(1) - 10 V (-)
Relay					2. 0(1)-10 V (+) 3. not connected
Power outputs L, N, V:	Load max. 10 A				4. not connected
Number of contacts:	1x NO AgSnO <sub>2</sub>				Connection DALL
Current rating:	10 A				Connection DAL
Breaking capacity:	2500 VA / 300 W				
Switching voltage:	250 V AC1 / 30 V DC				
Mechanical life:	1x 10 <sup>7</sup>				
Electrical life:	1x 10 <sup>5</sup>				
Communication					( ┌┼─•((
Protocol:	LoRa	NB-IoT*	LoRa	NB-IoT*	3.
Transmitter frequency:	868 MHz	LTE Cat NB1**	868 MHz	LTE Cat NB1**	
Range in open space:	Approx. 10 km***	Approx. 30 km***	Approx. 10 km***	Approx. 30 km***	
Transmission power (max.):	25 mW / 14 dBm	200 mW / 23 dBm	25 mW / 14 dBm	200 mW / 23 dBm	
Protocol:	iNELS RF Control				
Transmitter frequency:	866 MHz, 868 MHz, 916 MHz				
Range in open space:	up to 20 m				
Other parameters					
Working temperature:	-30 +50 °C				230 V AC N
Storage temperature:	-30 +70 °C				
Operation position:	See manual				Description of wiring
Mounting:	in socket				contacts:
Protection degree:	IP66				2. DALI +
Overvoltage category:	Ш.				3. not connected
Pollution degree:	2				4. not connected
Dimension:	Ø 88 x 96 mm				For the management of
Weight:	160 g				type recommended, bu





L (LINE)- phase N (NEUT) - neutral V (LOAD) - switched output

## onnection DALI



ontacts: DALL-DALI + not connected not connected

L (LINE)- phase N (NEUT) - neutral V (LOAD) - switched output

or the management of DALI BUS there is not an exact cable pe recommended, but it is important to keep some installation conditions. For DALI BUS lines up to 100 m the recommended min. conductor cross section is 0.5 mm<sup>2</sup>. For management between 100 m -150 m a cross section of 0.75 mm<sup>2</sup> and more than 150 m the recommended min is 1.5 mm<sup>2</sup>. Management of more than 300 m is not recommended. The voltage drop at the end of the installation may not be greater than 2 V.





## Function

- When the power is connected, the device sends the initial message containing the measured temperature and light intensity.
- Mode setting (message from server):
- Manual:
- turn on / off, adjust brightness
- scanning and data transmission interval of temperature and light intensity data (range ....) Automatic:
- the on / off is controlled according to the intensity measured by the light sensor

## Disintegration



\* nanoSIM / eSIM

\*\* Multiple frequency bands of B1 / B3 / B5 / B8 / B20 / B28 \*\*\* Depending on network coverage



\* by module type (analog / DALI)

- sensor senses temperature and intensity of lighting every 2 minutes. After that, it sends a data message of measured values every 60 minutes.