▪ Warning

Risk of electrical shock, personal injury or death.

This device may only be installed and put into operation by qualified personnel.

Check the information of the device to be controlled to see if it is compatible.

This device is designed for use in lighting and industrial control.

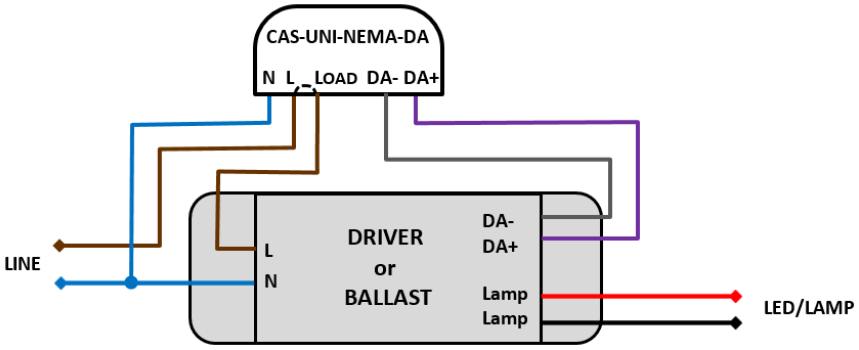
Do not use this device in equipment where malfunction may cause severe personal injury or threaten human life.

Turn power off before installing the device.

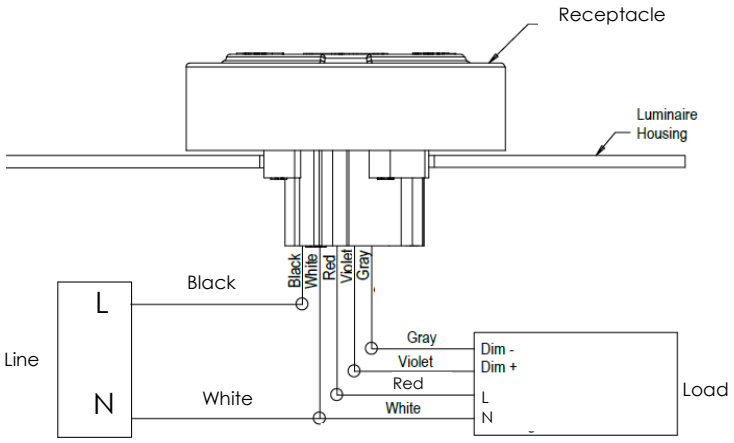
Respect national and applicable installation regulations.

If damage or malfunction should occur during operation, immediately turn power off and send device to the factory for inspection. Do not open, modify or repair the device. The device does not contain serviceable parts.

▪ Wiring diagrams



Load live output is internally connected to line live input.
Check that wiring of the base socket matches ANSI C136.41-2013 and the control node wiring diagram.



▪ Technical data

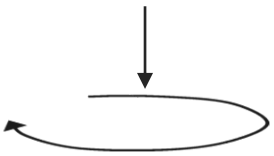
CAS-UNI-NEMA-5P-81-DA	
Nominal input voltage	110-240Vac
Input voltage range	85-305Vac
Frequency	47-60Hz
Power consumption standby	<0,8W@230Vac
Power consumption communicating	<1W @230Vac
Output control interface	DALI/DALI2
Integrated DALI voltage source	16VDC (isolated from mains)
DALI output current	100mA max.
LOAD output current	5A max.
LOAD maximum power	1200W@240V
Dimming range	0-100%
RF communication interface	Bluetooth 4.0 Low energy (BLE)
RF communication protocol	Casambi
RF spectrum	2402–2483 MHz
RF network	Self-healing, frequency-hopping, spread spectrum mesh technology
Maximum transmission power	+4 dBm
Wireless class	Class 2
Data security	AES128 bit encryption + elliptical cryptography
Firmware update	OTA (Over the air)
Time/date update	Internal counter. Updatable from APP or by use of external timer after power disconnection or through Casambi gateway
Protections	Line permanent overvoltage, line surge overvoltage
Operating temperature range	-40° to +80°C
Dimensions	Diameter 88mm. Height 63mm
Weight	150gr.
Enclosure material	PC with anti-UV treatment
Enclosure isolation type	Reinforced isolation ◎
IP	66
IK	09
Base connector	NEMA 5P (ANSI C136.41)
Standards	EN 61347-1, EN 61347-2-11, EN 55015, EN 61547, EN 61000-3-2, EN 61000-3-3, EN 301489-1, EN 301489-17.
DALI standards	IEC 62386 part 101, 102, 201, 203, 207, 250, 251, 252, 253
Directives	(LVD) 2014/35/UE, (EMC) 2014/30/UE, (RED) 2014/53/UE, (RoHS) 2011/65/UE, (REACH) 1907/2006.

▪ Installation instructions

Disconnect the supply voltage before installing CAS-UNI-NEMA nodes. Install the CAS-UNI-NEMA node upright on the socket to prevent water from entering between node and socket. The use of the supplied foam gasket is mandatory.

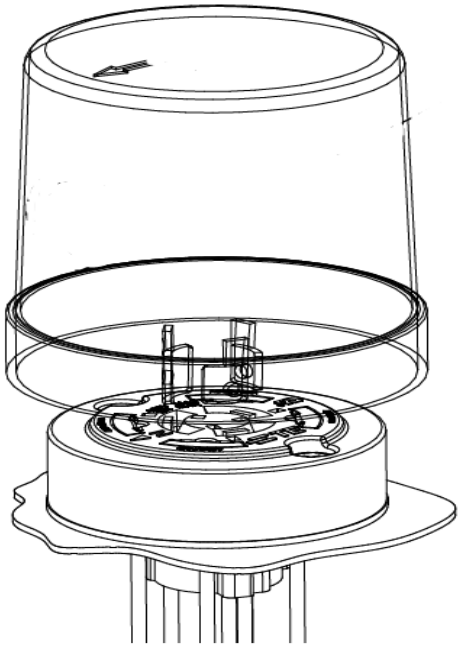
Insert the node into the socket. Note that the largest contact (Neutral) has to be aligned with the largest slot of the socket.

Push it in thoroughly until the foam gasket is compressed and while keeping downward pressure on it, turn it clockwise to fix it.



1º Push node in.

2º Twist the node.



Notes:
The node must be thoroughly pushed in order to compress the foam gasket.
If the node green LED is on but there is no or DALI signal it may be caused by signal contacts not being aligned (unsufficient pushing-in prior to twisting).

Metal structures, walls and photovoltaic panels produce shielding of radio frequency communications.
Try to locate the nodes so that there are no obstacles between them.
Lighting installations must incorporate protective devices against atmospheric discharges.
When the node is installed and powered, it can be configured and paired to a net using Casambi App. Unpaired nodes will appear in nearby devices list of Casambi App.
Select the most suitable profile for the application before pairing the node to a net.