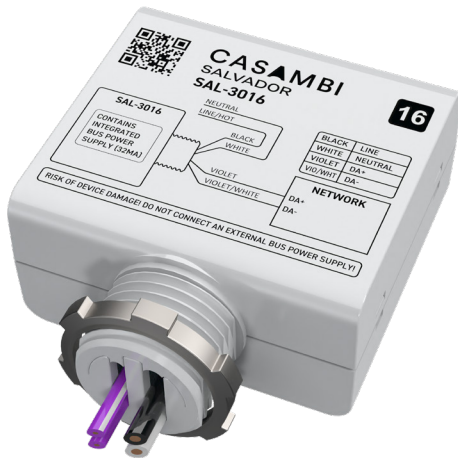




Project: _____
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 Item Code: _____
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 Notes: _____

SAL-3016

Salvador Series 3000



Warning!

Hazardous voltages. Risk of electric shock or fire. Only qualified professionals should make the connections.

Disconnect the mains power supply and verify its absence prior to installation.

PRODUCT DESCRIPTION

The Salvador Series 3000 currently features one model, the SAL-3016, which can control up to 16 DALI drivers.

The Salvador Series is designed to seamlessly integrate wired DALI drivers into the Casambi system, allowing DALI luminaires to appear as virtual luminaires within a Casambi network. This product supports key industry standards, including DALI D4i, DALI DT6, and DALI DT8, and comes with integrated 32 mA bus power supply for DALI operation.

It is important for lighting control designers to note that DALI controls, such as switches and sensors, should not be connected to Salvador Series 3000 products.

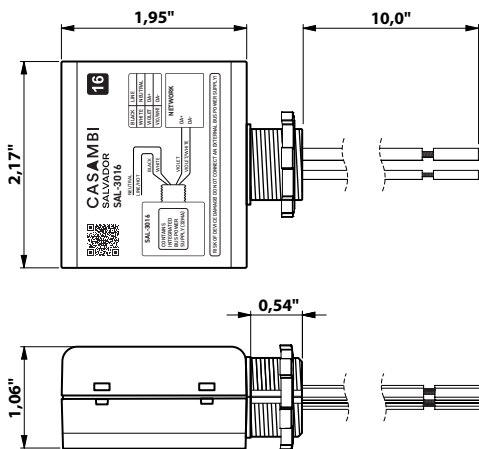
The Salvador Series 3000 has integrated 32 mA bus power supply for the DALI operation.

Warning!

When planning and deploying your lighting system, note that the Salvador 3000 has an integrated bus power supply.

Do not connect an external DALI bus power supply and disable D4i LED driver's internal bus power supply prior to connecting SAL-3016. Erroneous connection may cause device malfunction and possible permanent damage

DIMENSIONS (INCH)



CERTIFICATIONS

Contains FCC ID: T7V1780
 Contains IC: 216Q-1780
 UL: 5LE6 / E494741

DISPOSAL INSTRUCTIONS

This electrical product must not be disposed of as unsorted municipal waste. Please dispose of this product correctly: Regulations governing hazardous waste identification, classification, generation, management and disposal, found in title 40 CFR parts 260 through 273, should be observed.



Project: _____
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TECHNICAL DATA

Input

- Voltage range: 120-277 VAC
- Frequency: 50/60 Hz
- Mains current: 45 mA
- No-load standby power: < 0,5 W

DALI Output

- Voltage range: 12 - 15 VDC
- Guaranteed current: 32 mA
- Maximum current: 250 mA

The maximum supply current is defined according to IEC 62386-101 (p.6.5.2, "Single bus power supply current rating").

Radio Transceiver

- Operating frequencies range: 2.402...2.480 GHz
- Maximum output power: +8 dBm

Wires

- Mains: AWG 16
- DALI bus: AWG 22

Insulation

- Casing to DALI: Reinforced

Mechanical data

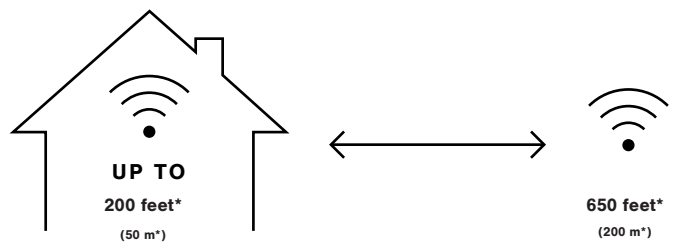
- Dimensions: 55.0 x 49.4 mm (64.2 with threaded nipple) x 27.0 mm
2.2" x 1.9"x (2.5" with threaded nipple) x 1.1"
- Weight: 3 oz (85 g)
- Degree of protection: IP20 (indoor use only)
- Protection class: Class 2

Operating conditions

- Ambient temperature, t_a : -4...+113°F (-20...+45°C)
- Max. case temperature, t_c : +158°F (+70 °C)
- Storage temperature: -13...+158°F (-25...+70 °C)
- Max. relative humidity: 0...80%, non-cond.

RANGE

The communication range in radio technology may ultimately vary depending on the design of the product in which the antenna is housed and on the environment in which it operates. In practice, this means a well-designed product from a radio point of view, with a good line of sight connection between nodes, can achieve radio coverage up to 200 feet (50 meters) indoors, and, in theory, up to 650 feet (200 meters) in the open air. Casambi uses a mesh network technology, whereby each Casambi unit, or Casambi Ready product, also acts as a repeater. Hence, longer ranges can be achieved by using multiple Casambi products within the network.



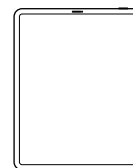
*The wireless range of a Casambi unit is dependent on several factors; how it has been integrated into a luminaire, where it has been installed; taking into consideration surrounding obstacles such as walls and other building materials that may block signals.

COMPATIBLE DEVICES



Compatible devices: iOS Operating Systems. Android OS support coming in Q3 2024.

We support the latest OS versions for Android (starting from Q3 2024) and iOS, and their last two major versions respectively.



Tablet



Smartphone





Project: _____

Reference Type: _____

Item Code: _____

Date: _____

Notes: _____

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna,
- Increase the separation between the equipment and the receiver,
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected,
- Consult the dealer or an experienced radio/TV technician for help.

Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

This device complies with Industry Canada's license-exempt RSSs. Operation is subject to the following two conditions:

- (1) This device may not cause interference; and
- (2) This device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:

- (1) l'appareil ne doit pas produire de brouillage;
- (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

INSTALLATION

Warning!



Do not connect an external DALI bus power supply and/or disable D4i LED driver's internal bus power supply prior to connecting SAL-3016. Erroneous connection may cause device malfunction and possible permanent damage of SAL-3016.

A Salvador Series 3000 device has integrated 32 mA DALI bus power supply required for bus operation. Never connect external power supply to the same bus with SAL-3016. In case other DALI devices have integrated bus power supply, such as D4i LED driver, you shall disable such power supply before connecting SAL-3016 to DALI bus.

Make sure that the mains voltage is switched off when making any connections.

Use supplied locknut with 1/2" NPT-thread for mechanical

fixation of the SAL-3016 during installation.

Choose the wiring diagram according to your application.

The mains input is marked with Black (Line) and White (Neutral) wires, wire type is AWG 16.

The DALI bus connection is marked with Violet (DA+) and Violet/White (DA-) colors. Observe bus polarity connection, if required, wire type is AWG 22.

Use special terminal connection blocks for AWG16 (mains). Use AWG22 (DALI bus) for stranded conductor electrical wires. Remove pre-stripped insulation from the individual wires that are used for connection. Insert the wires into the corresponding holes and close the connector lock or tighten the connector screw.

If you install the SAL-3016 into a heat-sensitive environment (i.e. inside a luminaire or in a ceiling outlet box above a luminaire), make sure that the ambient temperature does not exceed the specified maximum value.

The unit has a radio transceiver and an embedded antenna. To guarantee optimal unit performance and operational range, avoid enclosed installation into metal boxes.

DALI BUS CONNECTIONS

The Salvador Series 3000 allows the addressing, programming and control of wired DALI drivers individually from the Casambi App. It enables the creation of hybrid networks consisting of both Casambi Ready and DALI devices. All DALI drivers connected to a Salvador can be easily programmed and controlled in the same way as Casambi Ready devices via the Casambi App. This eliminates the need for a specific DALI controller, complex DALI configuration software, or a DALI specialist. The Salvador SAL-3016 is ideal for low-budget renovations, replacing multiple standalone DALI networks.



Project: _____

Reference Type: _____

Item Code: _____

Date: _____

Notes: _____

DALI BUS CONNECTIONS

The Salvador does not permit the discovery and addressing of more DALI drivers than the capabilities of the specific Salvador Series 3000 model you are using.

Physically connecting more DALI drivers than the particular Salvador Series 3000 product can discover and address is possible. However, during the discovery process, you will be prompted that too many drivers are connected, and the process will terminate. However, multiple Salvadors can be wirelessly connected to form a single Casambi mesh network.

One Salvador is one Casambi node. Each addressed wired DALI driver is one Casambi node. A Casambi network can contain up to 250 nodes, regardless of whether they are wired DALI drivers or Casambi Ready devices.

Wired DALI luminaires appear in the Casambi App in the same way as Casambi Ready luminaires. They can be individually controlled, grouped, or used in scenes that combine both Casambi Ready and wired DALI luminaires.

Only DALI drivers can be physically connected to a Salvador. DALI controls (such as switches and sensors) must not be connected. If DALI controls are required to be part of the Casambi network, they must be converted to be Casambi Ready using a suitable Casambi CBU or device from one of our Ecosystem partners.

Salvador Series 3000 devices are compatible with Casambi Evolution networks only.



Project: _____
 Reference Type: _____
 Item Code: _____
 Date: _____
 Notes: _____

FIXTURE PROFILES

Profile#	Profile name / in app description	Description	Wiring diagram
8830*	Salvador 3000	Generic profile for Casambi SAL-3016 DALI controller products.	1

* Default profile

DALI CONFIGURATIONS

ADR#	Description	Remarks
16	Salvador 3000 product with sixteen (16) addressable devices configuration.	SAL-3016

WIRING DIAGRAMS

1.

