



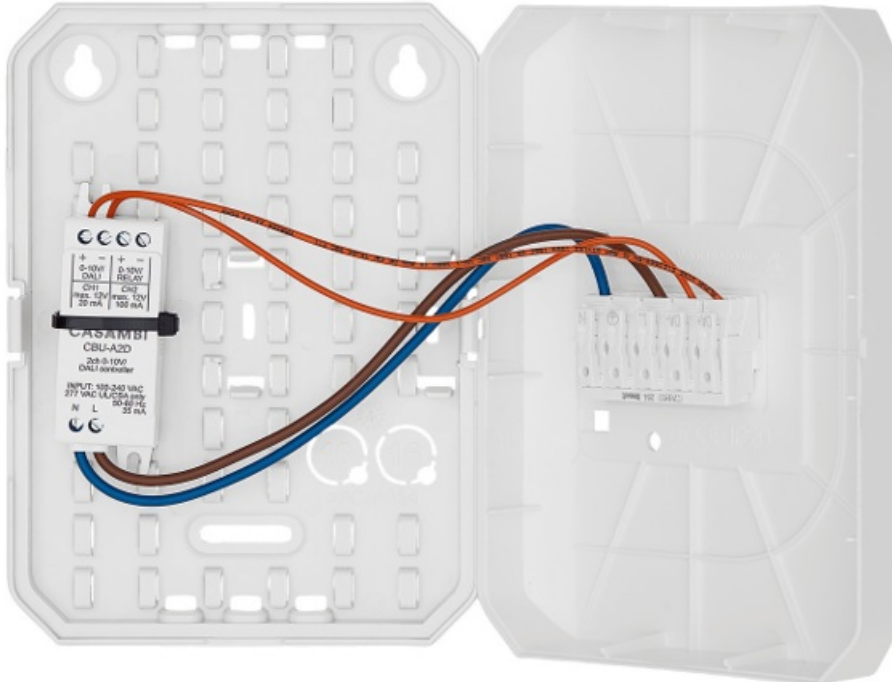
VADSBO CBU-A2D DALI Controller Instruction Manual

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VADSBO



CBU-A2D DALI Controller
Instruction Manual



Innehåller:
Manual A2D
Vadsbox Rum Snabb

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CBU-A2D DALI Controller

E nummer: E13 607 95

Art. nummer: V-42D0096-002Y

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Installation Manual



Warning!

High voltage. Risk of electric shock. Installation should only be performed by a qualified electrician. Make sure that the power supply is switched off before connecting.

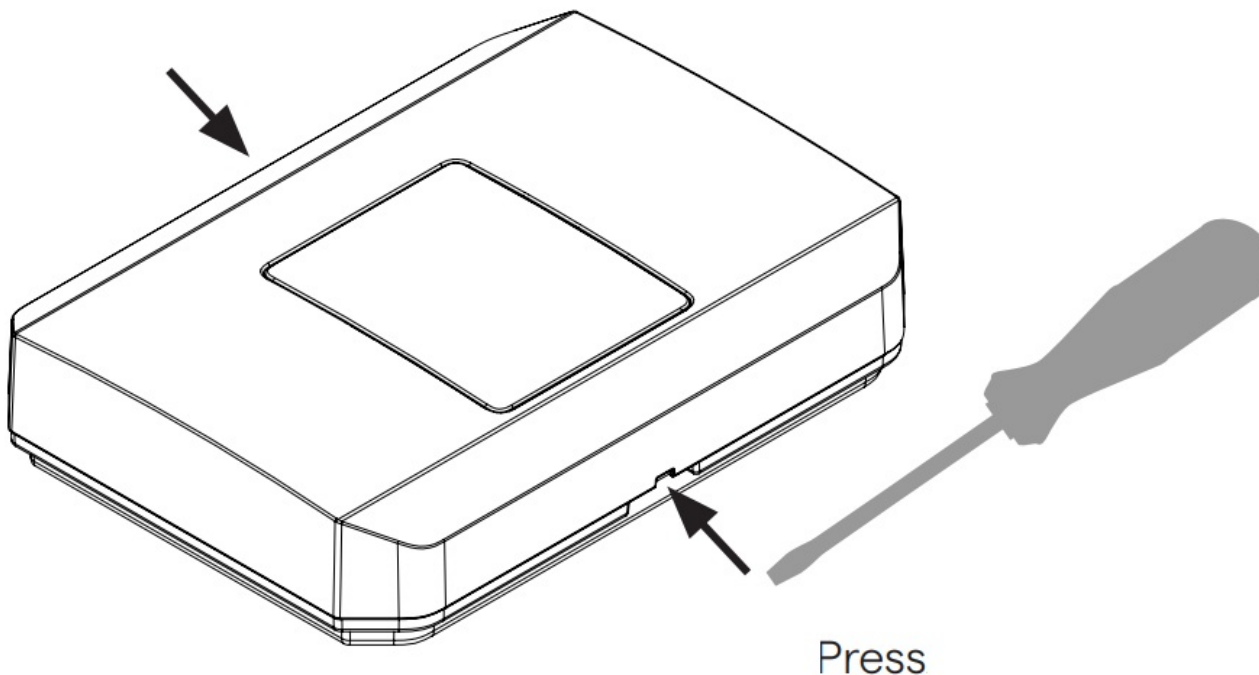
Vadsbox is a junction box intended for the fitting of products such as dimmers, control modules and relays.

Vadsbox is IP20 compliant and intended for placement in suspended ceilings or for surface mounting indoors. Vadsbox is equipped with a 5-pole spring connector, which can be removed from the fitting if necessary. Vadsbox's base plate includes brackets which, with the help of the included cable ties, allow for a universal fitting of products, as well as simple internal cable management and strain relief.

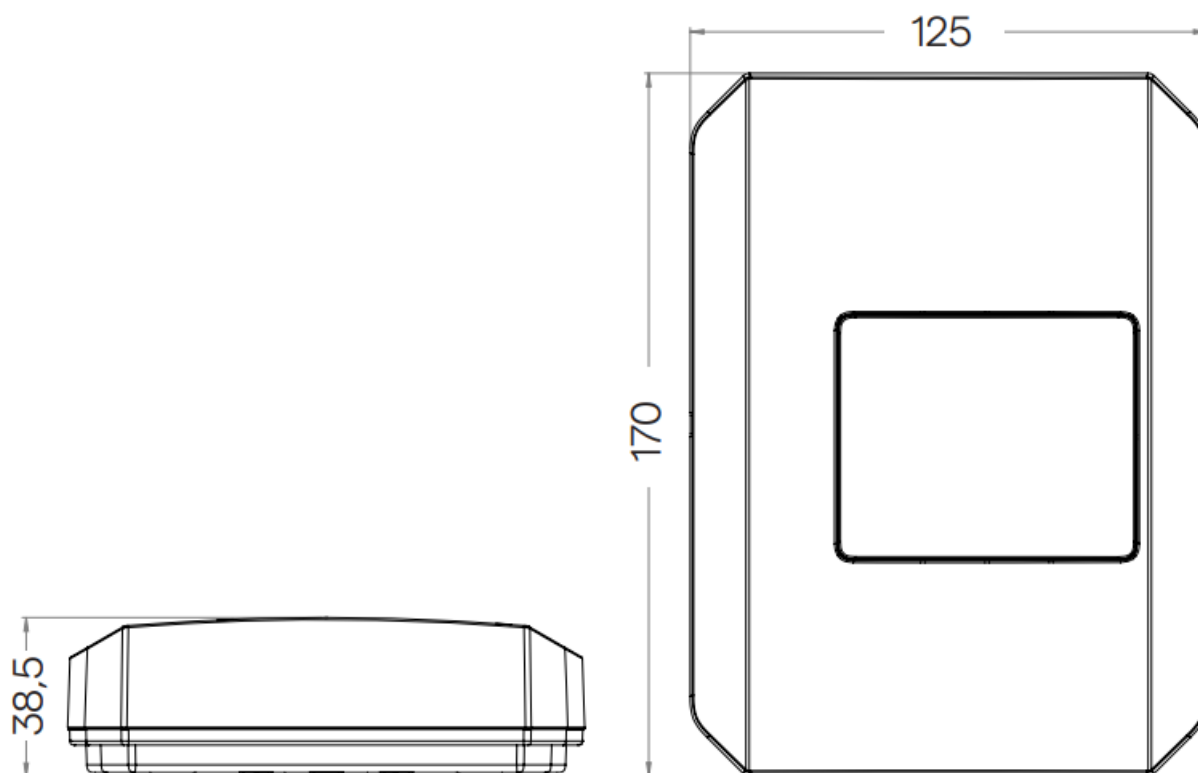


Open locking clips

To open the Vadsbox press a screwdriver against the locking clips on each long side, as per the picture below



Dimensions

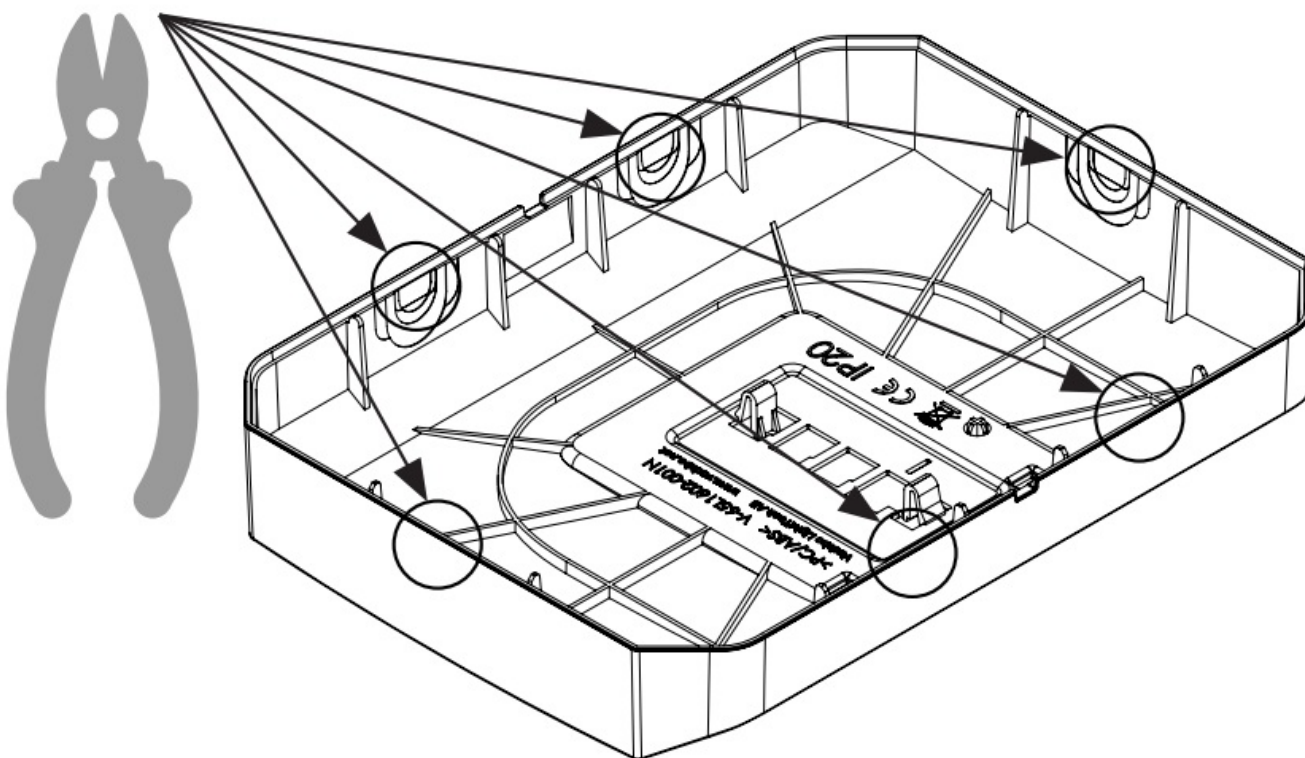


Technical data

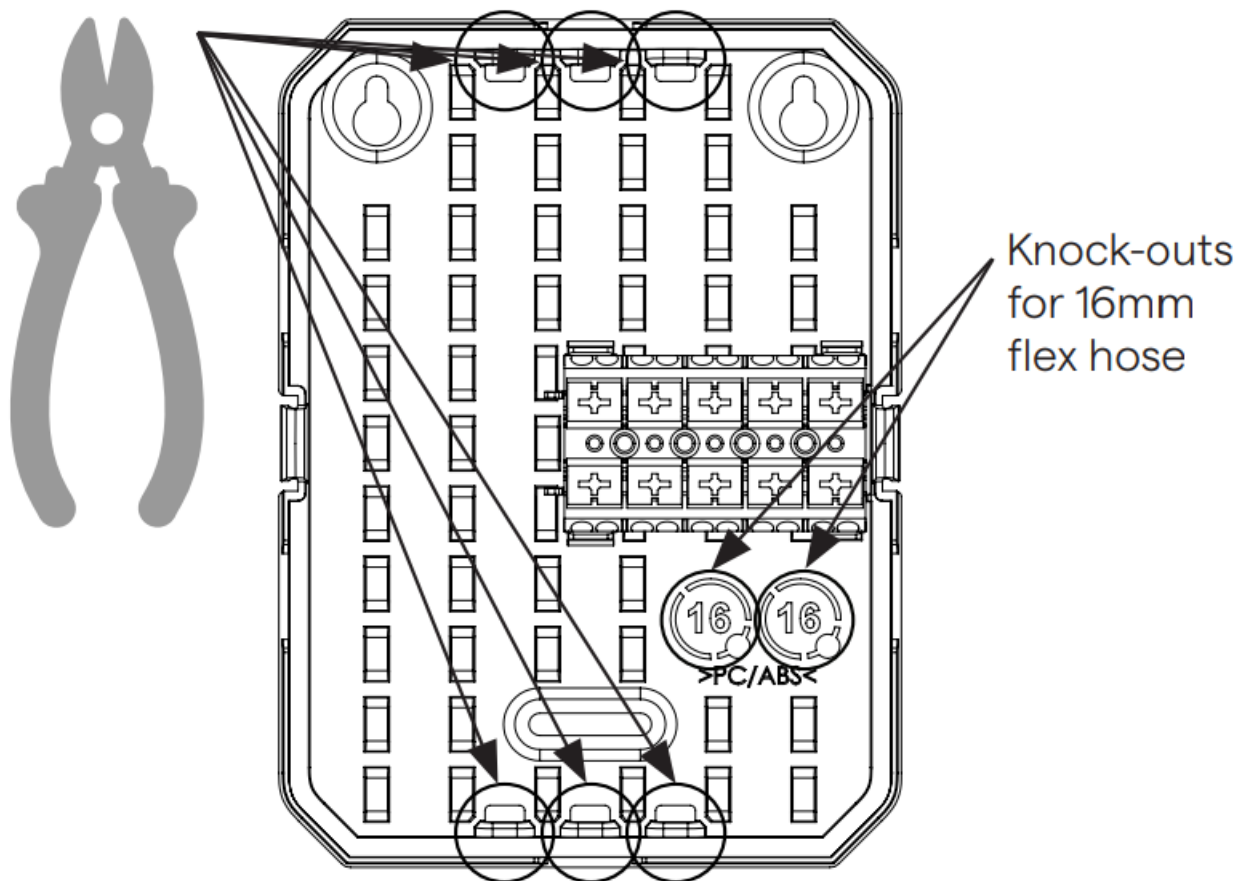
Product name	Vadsbox
Product number	V-65L1602-001Y
E-number	E14 383 97
Fitting	Surface mounted
Material	PC/ABS
Insulation class	IP20
Dimensions LxWxDj	170x125x38,5mm
Cable entry	16mm knock-outs, and multiple cut-out option
Working temperature	-20 + 50°C
Weight	178g
Flame retardance	V0
Approvals	CE

Cable entry options

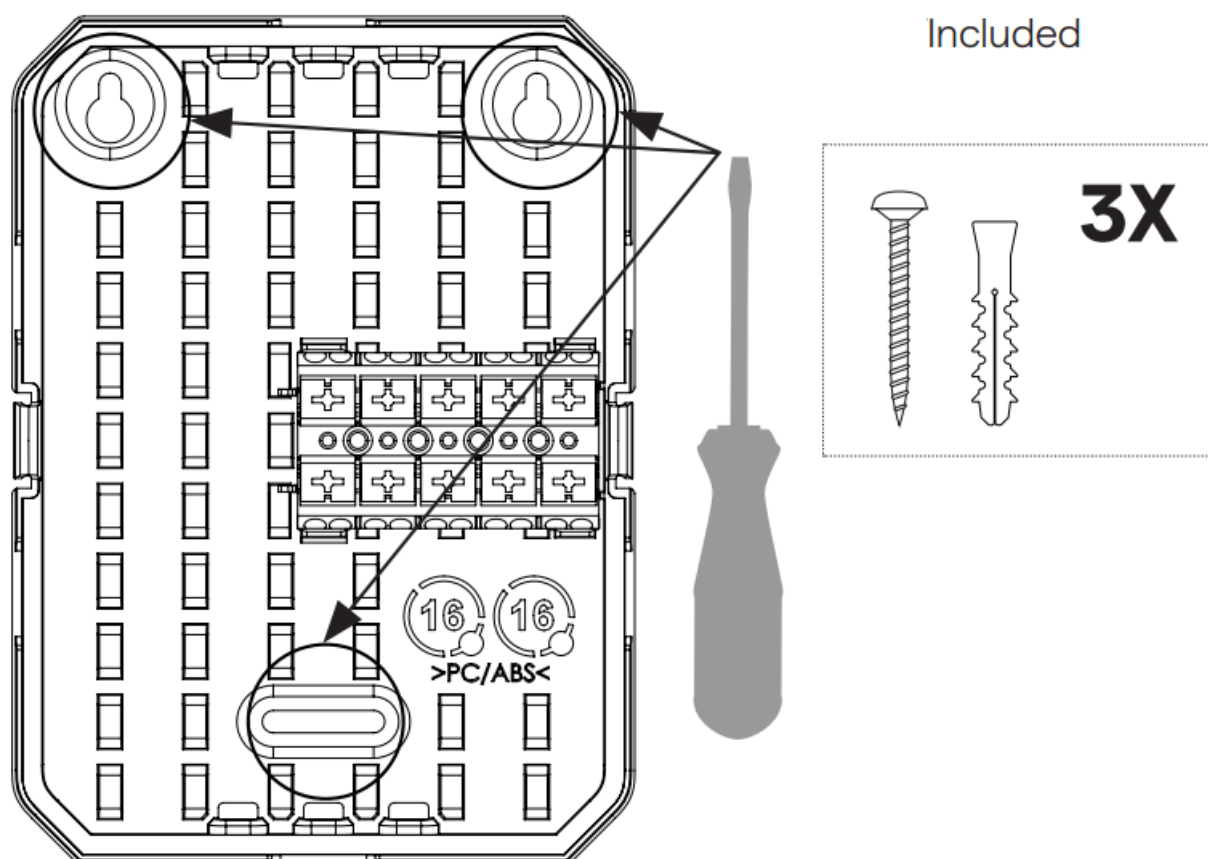
Optional knock-outs based on cable size in several places



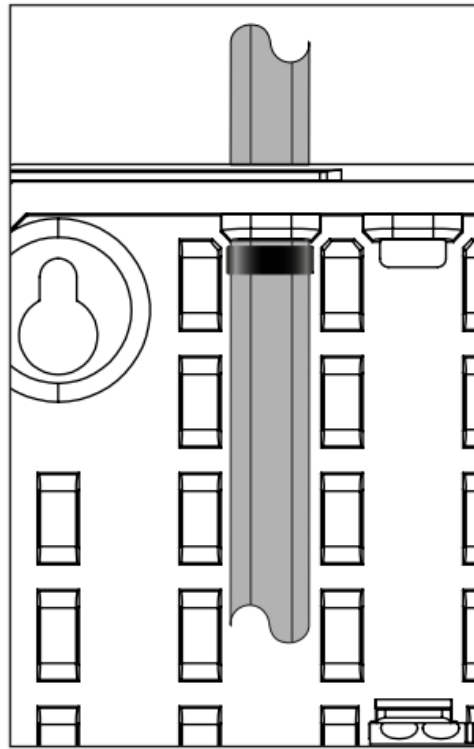
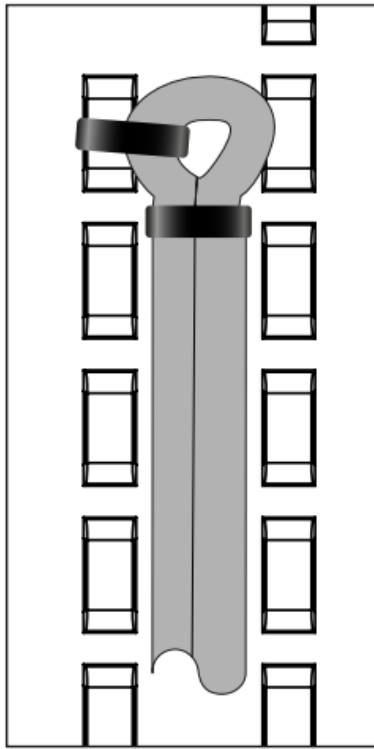
Knock-outs for 2 wiring cables



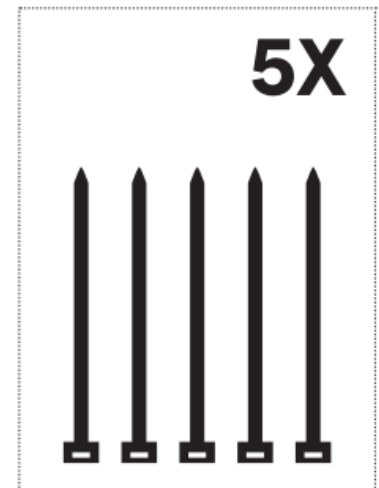
Wall mounting



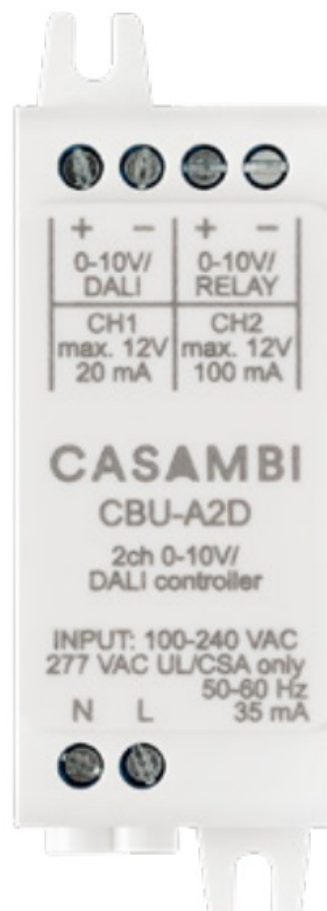
Examples of strain relief



Included



Installation manual CBU-A2D



Warning!

High voltage. Risk of electric shock. The installation should only be carried out by an authorised electrician. CBU-A2D is a Bluetooth controllable, Casambi enabled 2 channel 0-10V/ DALI controller. CBU-A2D has a universal 100-277 VAC input voltage range. CBU-A2D can control one or two 0-10V controllable LED drivers, or it can control a tunable white LED driver with two 0-10V control interfaces. The product can also be configured into a DALI mode where it can be connected to a DALI LED driver or DALI sensor for presence and/or daylight

harvesting functions.



CBU-A2D can be controlled with Casambi app which can be down loaded free of charge from Apple App Store and Google Play Store.

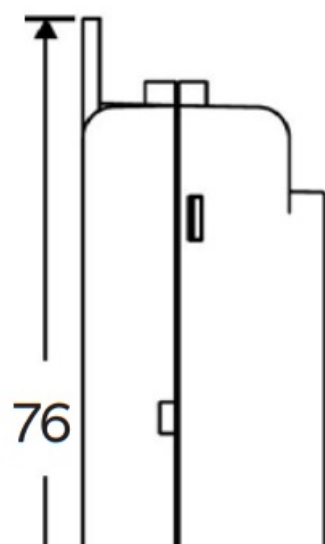
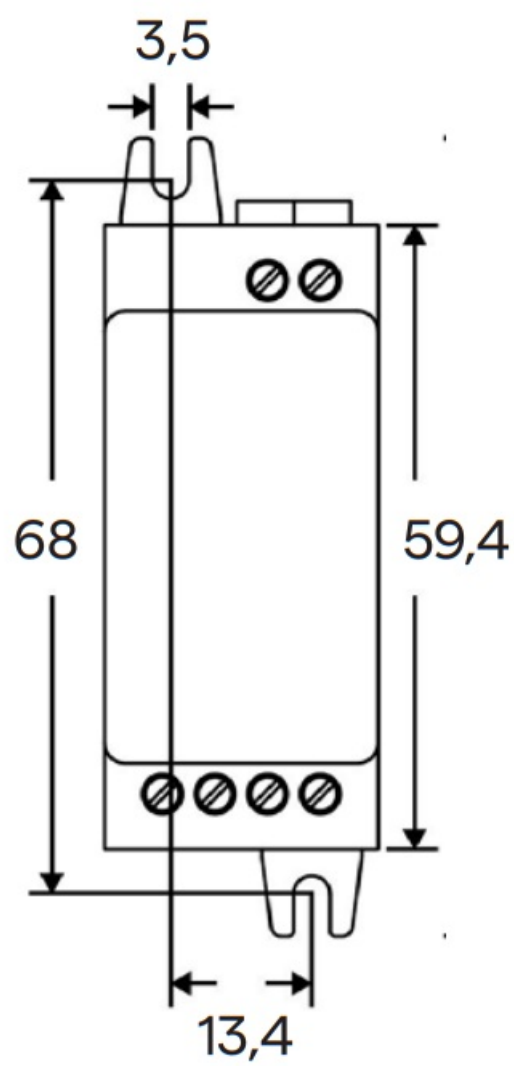
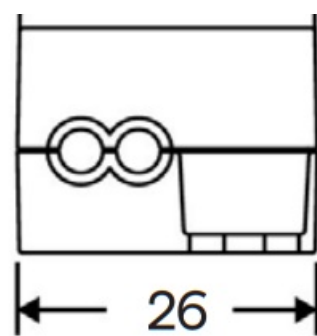
Different Casambi enabled products can be used from a simple one luminaire direct control to a complete and full fea-tured light control system where up to 250 units form automatically an intelligent mesh network.

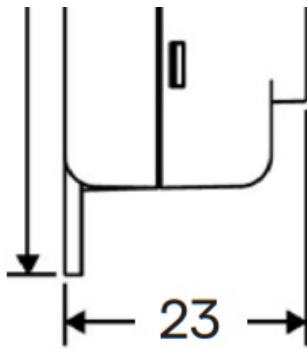
Technical data

Label	CBU-A2D
Item number	V-42B0006-001
Input voltage	100-240VAC (CE/UL/CSA) 277VAC (UL/CSA only)
Frequency	50-60Hz
Max. mains current	35mA
Output 1 voltage, 0-10V	0-10VDC, max. 7 mA (sinking)
Output 1 voltage, DALI	12VDC, max. 20 mA (sourcing)
Max. number of drivers	1 driver + 1 sensor/push button
Output 2 voltage, 0-10V	0-10 VDC, max. 7 mA (sinking)
Output 2 voltage, relay control	12 VDC, max. 100 mA (sourcing)
Max. number of drivers	1
Operating frequencies	2,4...2,483 Ghz
Max. output power	-4 dBm
Ambient temperature, ta	-20...+45°C (-4...+113°F)
Max. case temperature, tc	+70 °C (+158°F)
Storage temperature	-25...+70 °C (-13...+158°F)
Max. relative humidity	0...80%, non-cond
Wire range, solid & stranded	0,5-1,5 mm ² / 16-20 AWG
Wire strip length	6-7 mm (.25")
Tightening torque	0,4 Nm/4 Kgf.cm/2,6 Lb-In
Dimensions	76,0×26,0x23,0mm
Weight	40g
Casing classification	IP20
Protection class	Built-in Class II
Certifications	CE

Dimensions







Installation

Make sure that the mains voltage is switched off when making any connections. Use 0.5-1.5 mm 2 solid or stranded conductor electrical wires. Strip the wire 6-7 mm from the end. Insert the wires into the corresponding holes and tighten the connector screws.

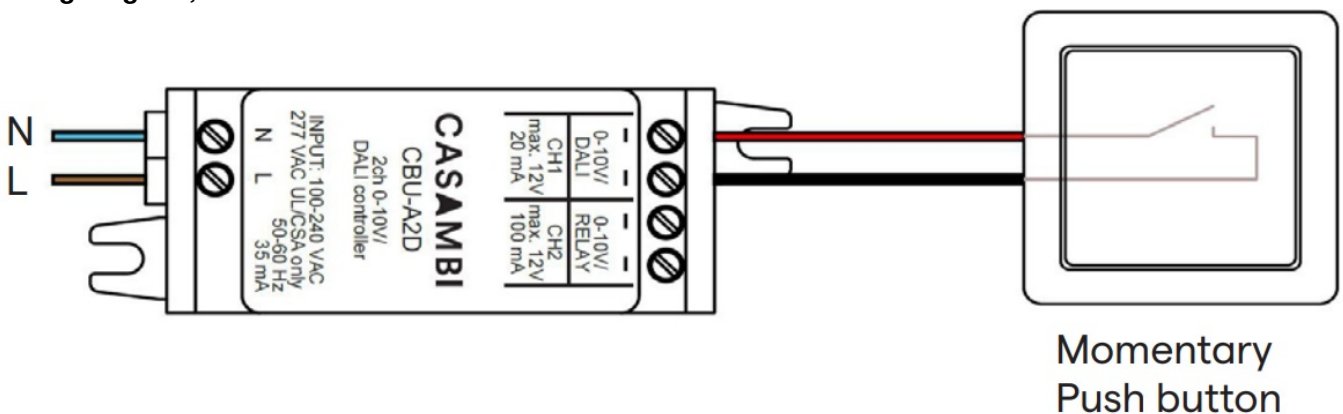
If the connected LED driver cannot be turned off completely from the control interface, an external relay with 12 VDC coil can be connected to channel 2. Make sure the relay is protected against flyback voltage, e.g. do not use a PCB relay without the flyback diode. A suitable fixture configuration must be selected in order to control a relay. CBU-A2D, as any other Casambi product, should not be placed in a metal enclosure or next to large metal structures. Metal will effectively block radio signals which are crucial to the operation of the product. A thorough connectivity testing is strongly recommended in the installation site.

Range

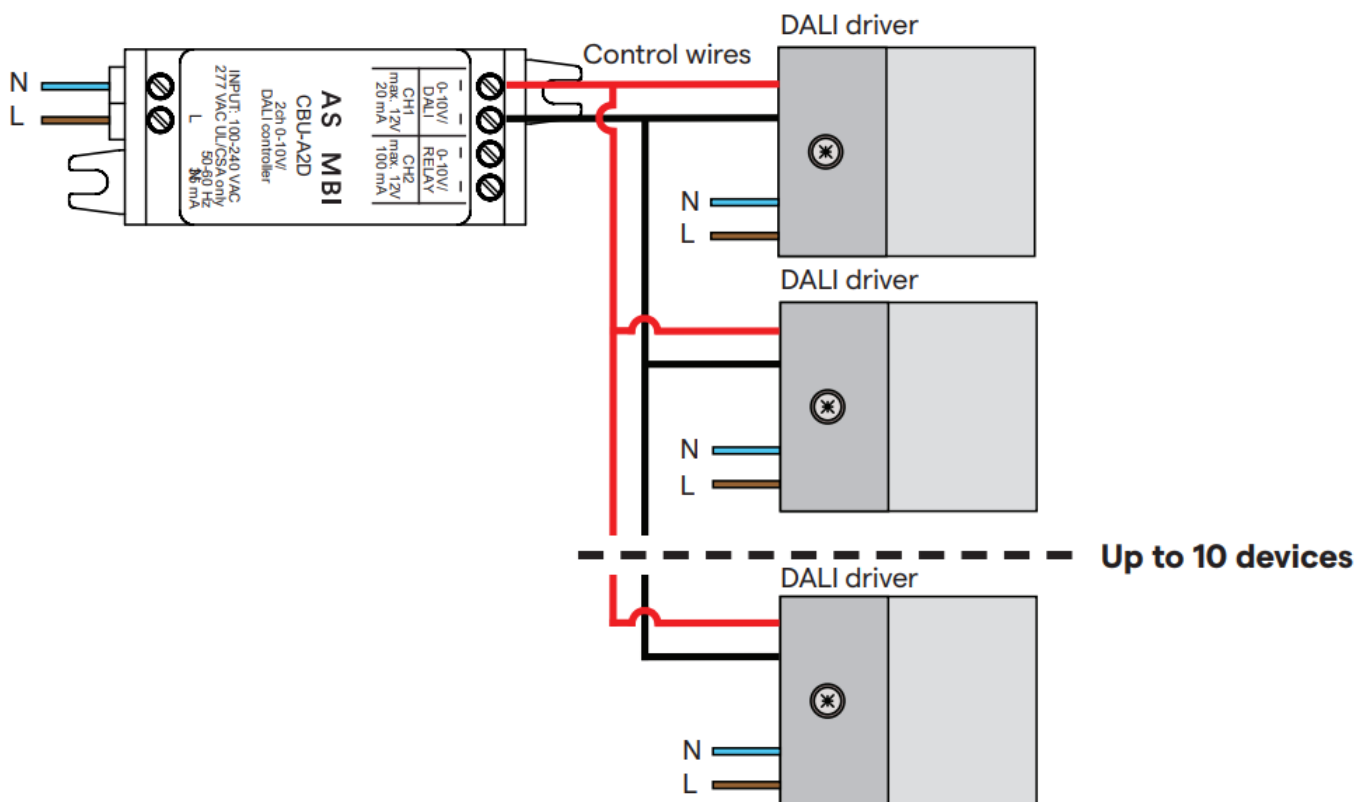
The range between two CBU-A2D units or between a CBU-A2D and a smart phone can vary a lot depending on obstacles and surrounding material. In open air the range between two CBU-A2Ds can be in excess of 200 ft, but if the unit is encapsulated into a metal structure, the range can be only few feet. Therefore, thorough testing is highly suggested.

Casambi uses mesh network technology so each CBU-A2D acts also as a repeater. When testing the network, it is important to test that each unit can be controlled from any point of the network covered area.

Wiring diagram, Push Button

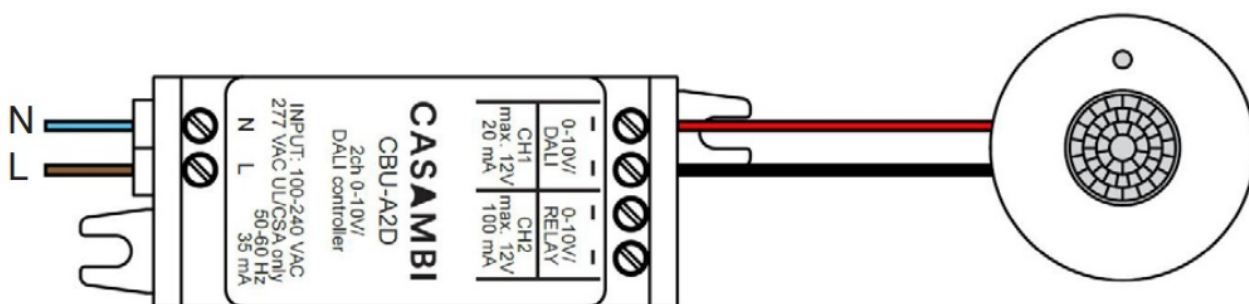


Wiring diagram, 10 DALI drivers



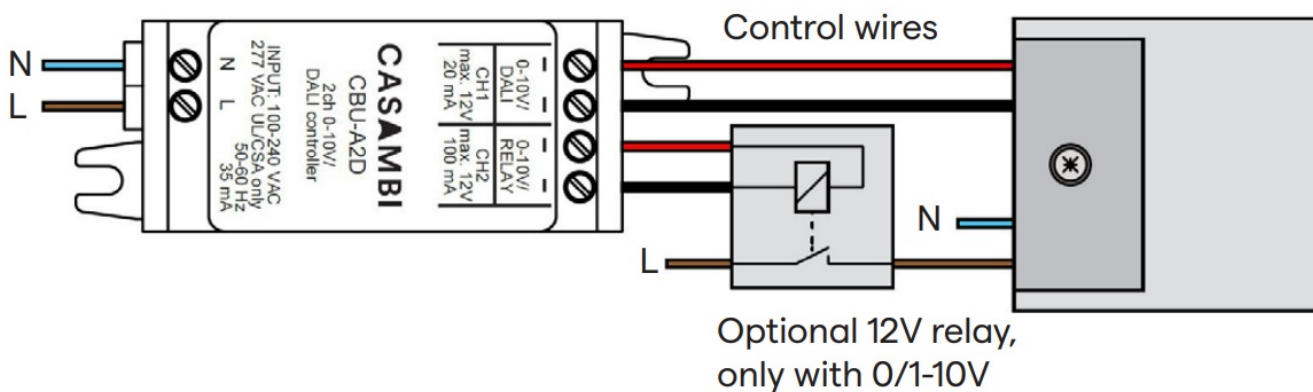
Wiring diagram, DALI sensor

Passive DALI sensor

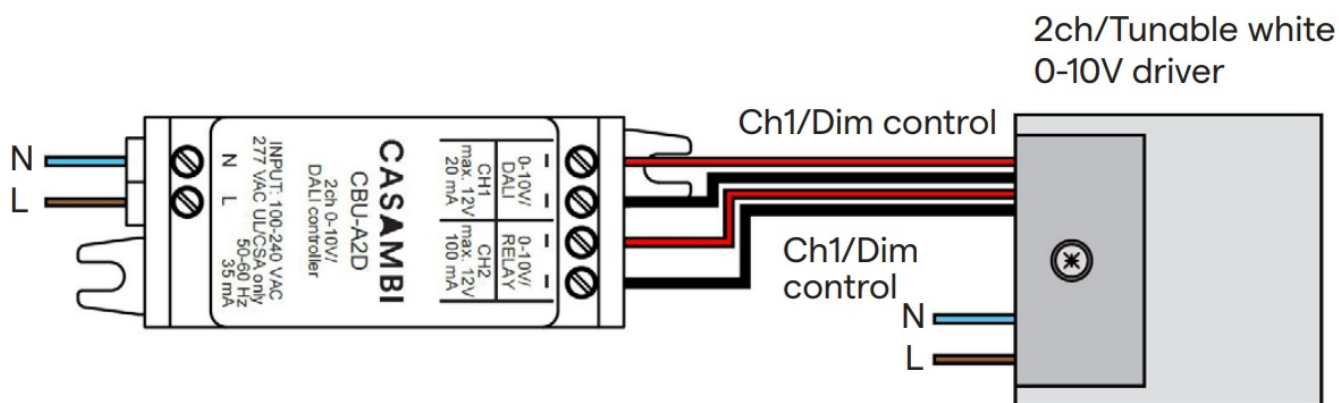


Wiring diagram, one driver and relay

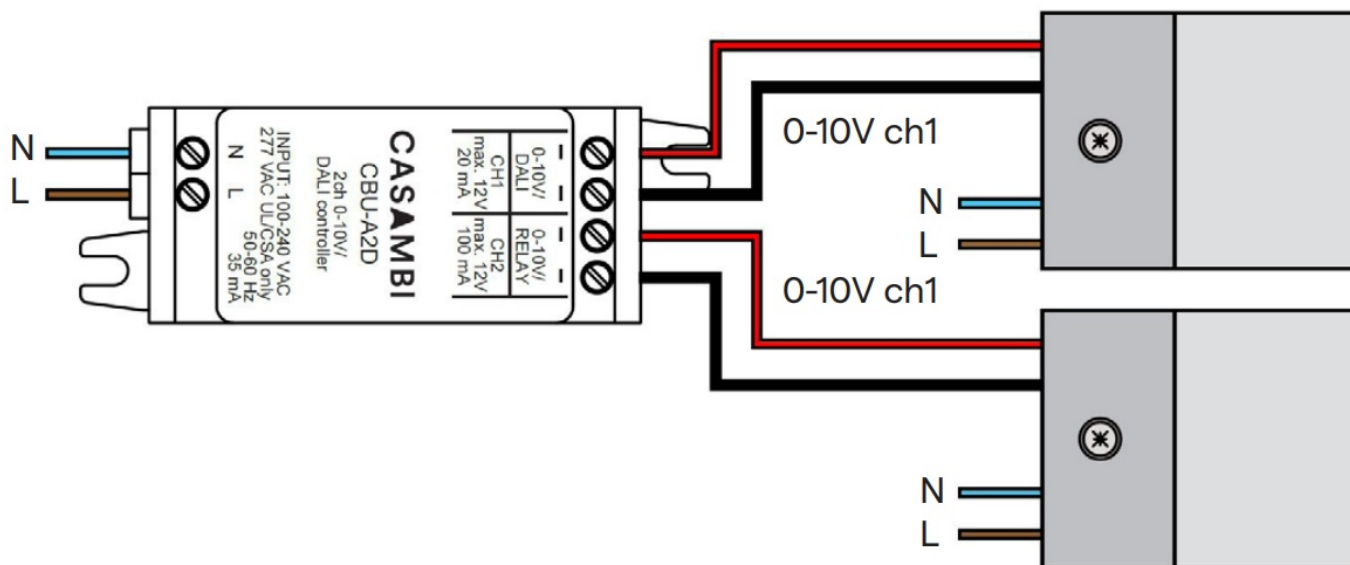
0/1-10V or DALI driver



Wiring diagram, 2 channel LED driver



Wiring diagram, two drivers (only 0-10V)



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2021-10-21 CBU-A2D
Installation manual Version 2

Documents / Resources

 <p>Vadsbox Rums Snabb</p> <p><small>Enkelinställning för VADSBO CBU-A2D DALI Controller</small></p> <p><small>VADSBO CBU-A2D DALI Controller är en DALI Controller som används för att styra belysning. Den är utvecklad av VADSBO LightTech AB och är en del av VADSBO LightTech AB:s produktlinje för DALI Controller. Den är utvecklad för att användas i VADSBO LightTech AB:s produktlinje för DALI Controller. Den är utvecklad för att användas i VADSBO LightTech AB:s produktlinje för DALI Controller.</small></p>	<p>VADSBO CBU-A2D DALI Controller [pdf] Instruction Manual CBU-A2D, DALI Controller, CBU-A2D DALI Controller, Controller</p>
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References

- [Kgf.cm/2,6](https://kgf.cm/2,6)
- [Vadsbo LightTech AB – Vi utvecklar, designar och säljer trådlösa ljusstyrningslösningar för stora & smarta projekt.](#)

Manuals+.