



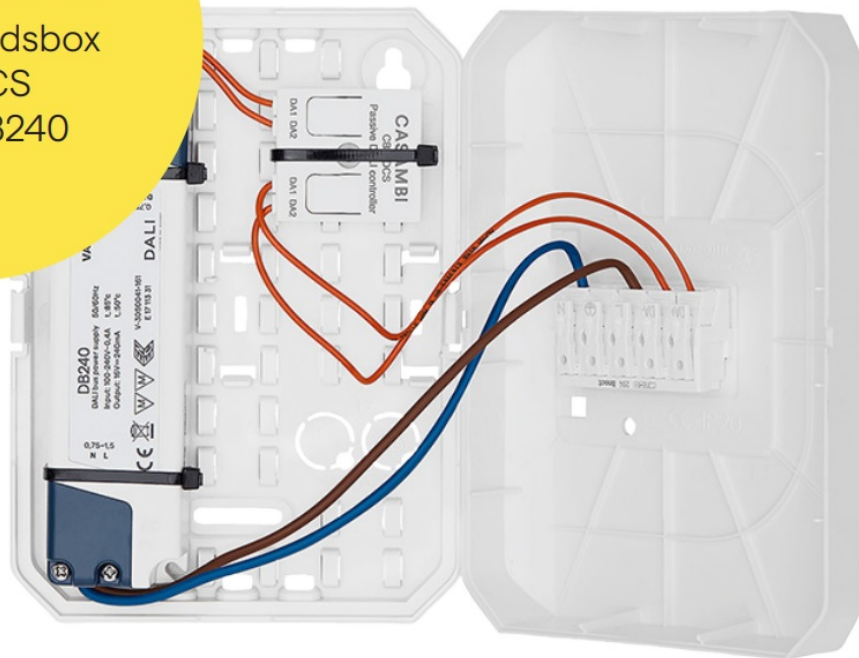
VADSBO CBU-DCS Bluetooth Controller Instruction Manual

[Home](#) » [VADSBO](#) » VADSBO CBU-DCS Bluetooth Controller Instruction Manual 



Innehåller:

Manual Vadsbox
Manual DCS
Manual DB240



Contents

1 Vadsbox Area Snabb

1.1 E nummer: E13 607 97 Art. nummer: V-42D0096-004Y

1.2 Installation Manual

1.2.1 Technical data

1.2.2 Cable entry options

1.2.3 Wall mounting

1.2.4 Examples of strain relief

1.3 Installation manual CBU-DCS

1.3.1 Wiring diagram, sensor

1.3.2 Wiring diagram, DALI LED driver and DALI sensor

1.3.3 Wiring diagram, DALI LED drivers

1.3.4 Technical data

1.3.5 Dimensions

1.4 Installation manual DB240

1.4.1 Installation

1.4.2 Technical data

1.4.3 Wiring diagram

2 Documents / Resources

2.1 References

3 Related Posts

Vadsbox Area Snabb

E nummer: E13 607 97

Art. nummer: V-42D0096-004Y

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.

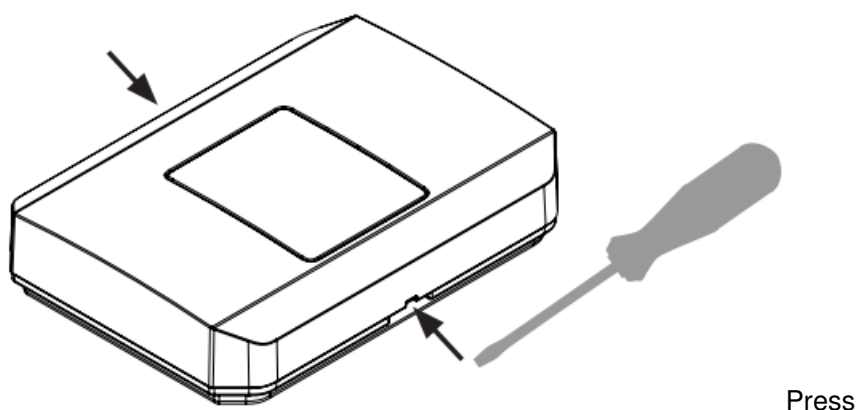
Vadsbox is a junction box intended for the fitting of products such as dimmers, control modules and relays. Vadsbox is IP20 compliant and intended for placement in suspended ceilings or for surface mounting indoors.

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.

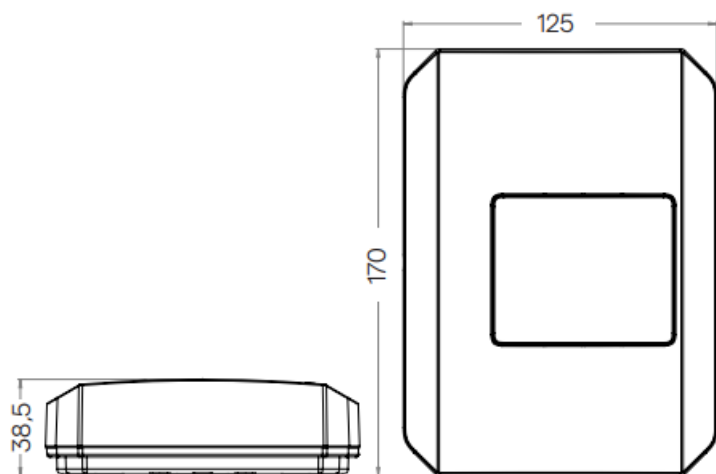


Open locking clips

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



Dimensions



Vadsbox installationsmanual 2022-01-13 version 2

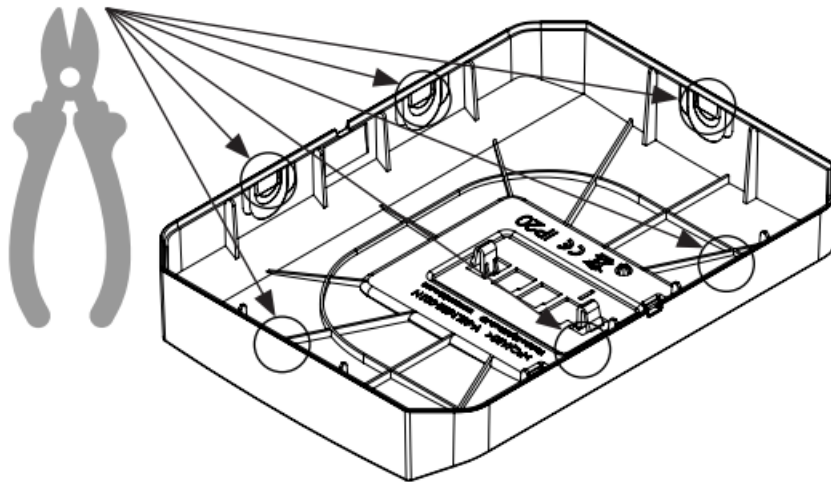
Technical data

Product name	Vadsbox
Product number	V-65L1602-001Y
E-number	E14 383 97
Fitting	Surface mounted
Material	PC/ABS
Insulation class	IP20
Dimensions LxWxD	170x125x38,5mm
Cable entry	16mm knock-outs y varias entradas recortables

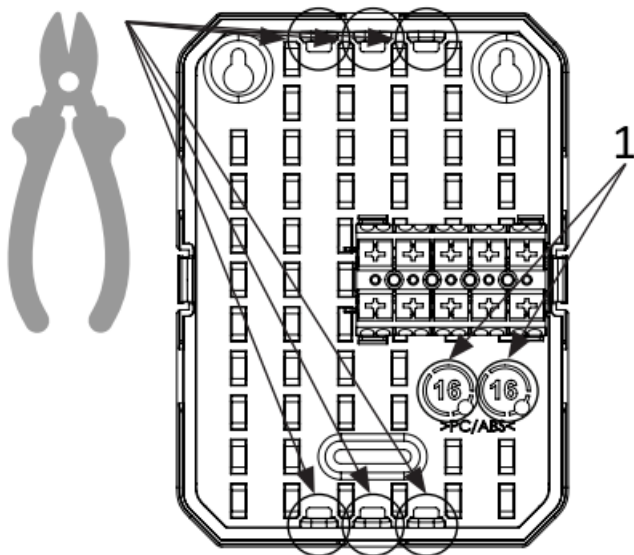
Working temperature	-20 + 50°C
Weight	178g
Flame retardance	V0
Approvals	CE

Cable entry options

Optional knock-outs based on cable size in several places
Cut away

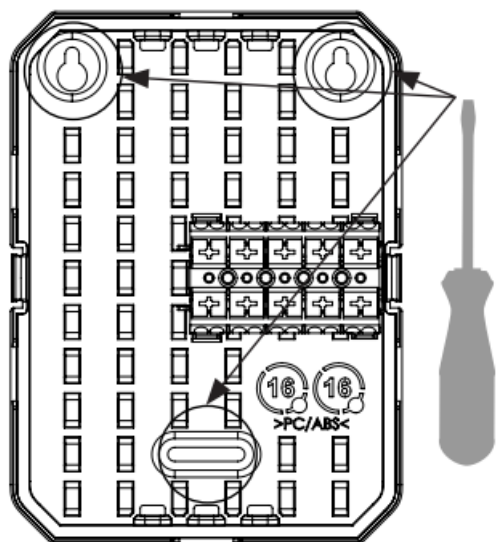


Knock-outs for 2 wiring cables
Cut away

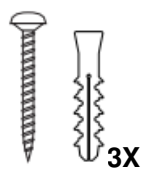


1. Knock-outs 16mm

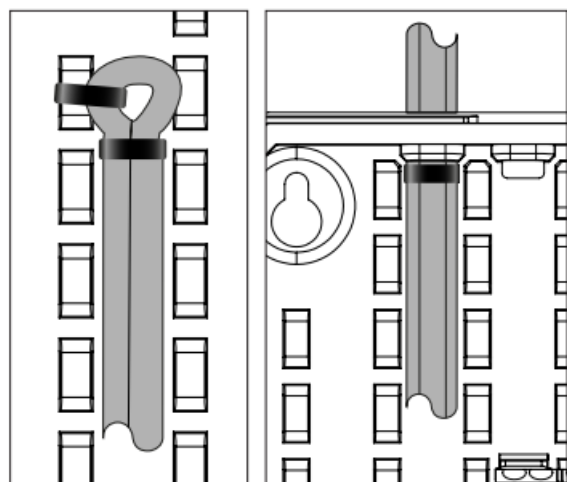
Wall mounting



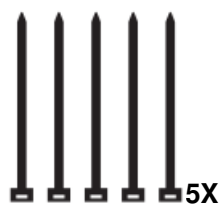
Included



Examples of strain relief



Included



Installation manual CBU-DCS



Warning!

High voltage. Risk of electric shock. The installation should only be carried out by an authorised electrician.



CBU-DCS is a Bluetooth controllable, Casambi enabled DALI controller. CBU-DCS does not have its own power supply. Instead, it is powered directly from a DALI bus.

CBU-DCS can be used with a DALI sensor for presence detection or daylight harvesting, or it can be used for controlling DALI drivers that have an integrated DALI bus power supply.

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

Installation

CBU-DCS draws its operating power directly from the DALI bus. For this reason, it is important to make sure that the DALI bus is externally powered. If CBU-DCS is connected directly to a DALI sensor or a DALI driver, these products must have an integrated DALI bus power supply. CBU-DCS draws 5 mA in idle mode with 30 mA peak current from the DALI bus.

Use 0,5-1,5 mm² solid or stranded conductor electrical wires. Strip the wire 6-8 mm from the end. Using wire ferrules is not recommended. Press the buttons on top of the dimmer case and insert the wires into the corresponding holes. The polarity of DA1 and DA2 does not matter.

CBU-DCS, 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.

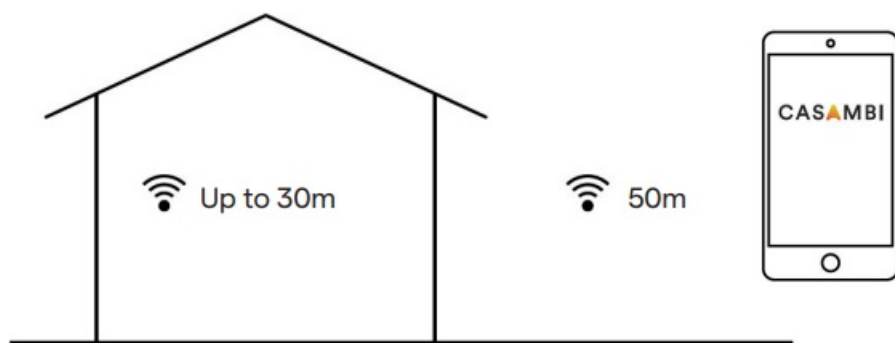
Gateway

In an Evolution network, the CBU-DCS can use the profile "Gateway" to seamlessly integrate with existing DALI systems. The CBU-DCS then looks like a standard DALI gear to the DALI controller. Casambi networks can be controlled in the same way as wired DALI systems, making this in effect a wireless DALI solution. In addition, this allows for integration with other systems, for instance KNX.

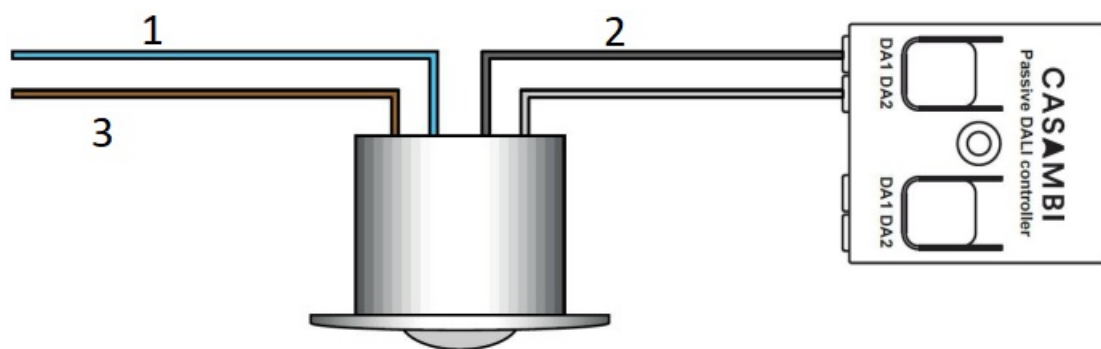
Range

Casambi uses mesh network technology so each CBU-DCS acts also as a repeater. Longer ranges can be achieved by using multiple Casambi units.

Compatible devices: iPhone 4S or later, iPad 3 or later, iPod Touch 5th gen or later, Android 4.4 KitKat or later devices produced after 2013 with full BT 4.0 support.

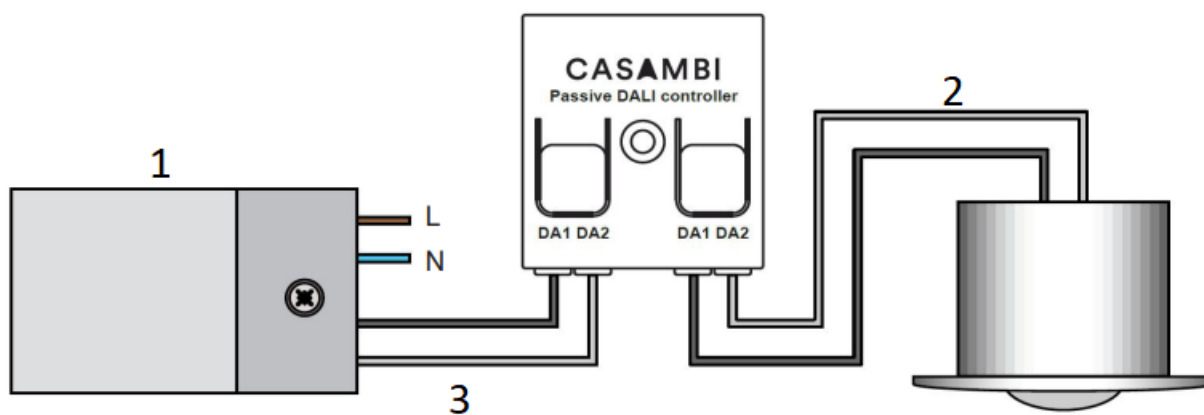


Wiring diagram, sensor



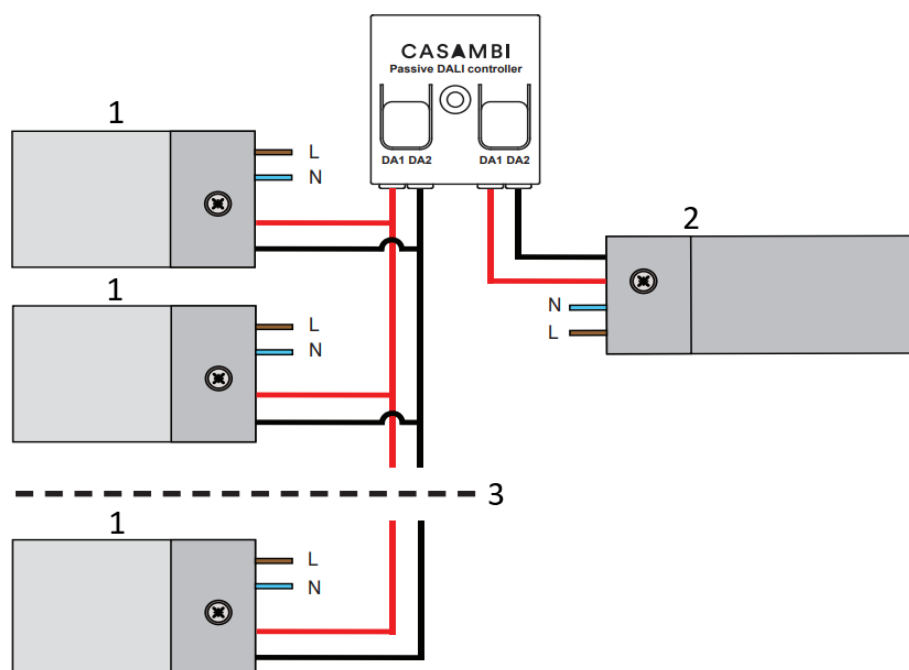
1. Sensor power line
2. 9.5-22.5 VDC DALI bus
3. Sensor with integrated DALI power supply

Wiring diagram, DALI LED driver and DALI sensor



1. DALI controllable LED driver with integrated DALI bus power supply.
2. Casambi listed DALI controllable sensor without power supply.
3. 9.5-22.5 VDC DALI bus

Wiring diagram, DALI LED drivers

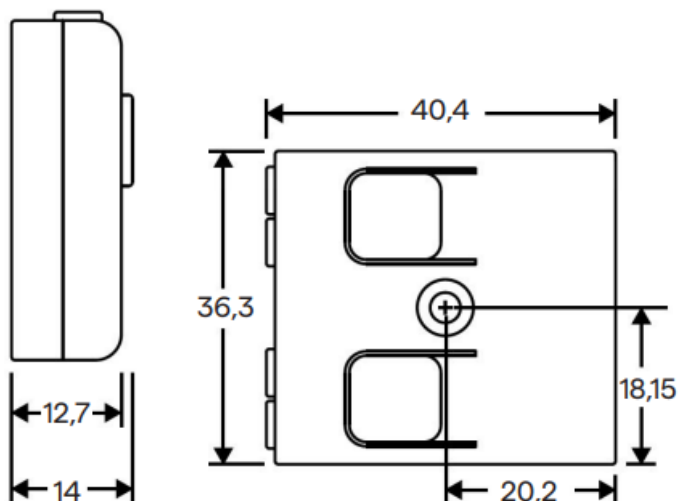


1. Passive DALI driver
2. DALI bus power supply
3. The maximum number of passive DALI drivers depends on the capacity of the DALI bus power supply.

Technical data

Label	CBU-DCS
Item number	V-42B0046-001
Input voltage range	9,5-22,5VDC
Input current when idle	5mA
Peak input current, I _{peak}	30mA
Max. DALI bus current	250mA
Range	Up to 30m indoors and 50m outdoors. Range is highly dependant on the surrounding and obstacles, such as walls and building materials.
Standby power	<0,1W
Operating frequencies	2,4...2,483Ghz
Maximum output power	+4dBm
Ambient temperature, t _a	-20—+55°C
Max. case temperature, t _c	+65°C
Storage temperature	-25...+75°C
Max. relative humidity	0...80%, non-cond.
Wire range, solid & stranded	0,5-1,5mm², 16A-WG
Wire strip length	6-8mm
Dimensions	40,4×36,3x14mm
Weight	15g
Casing classification	IP20
Casing DALI	Reinforced
Certifications	CE

Dimensions



Installation

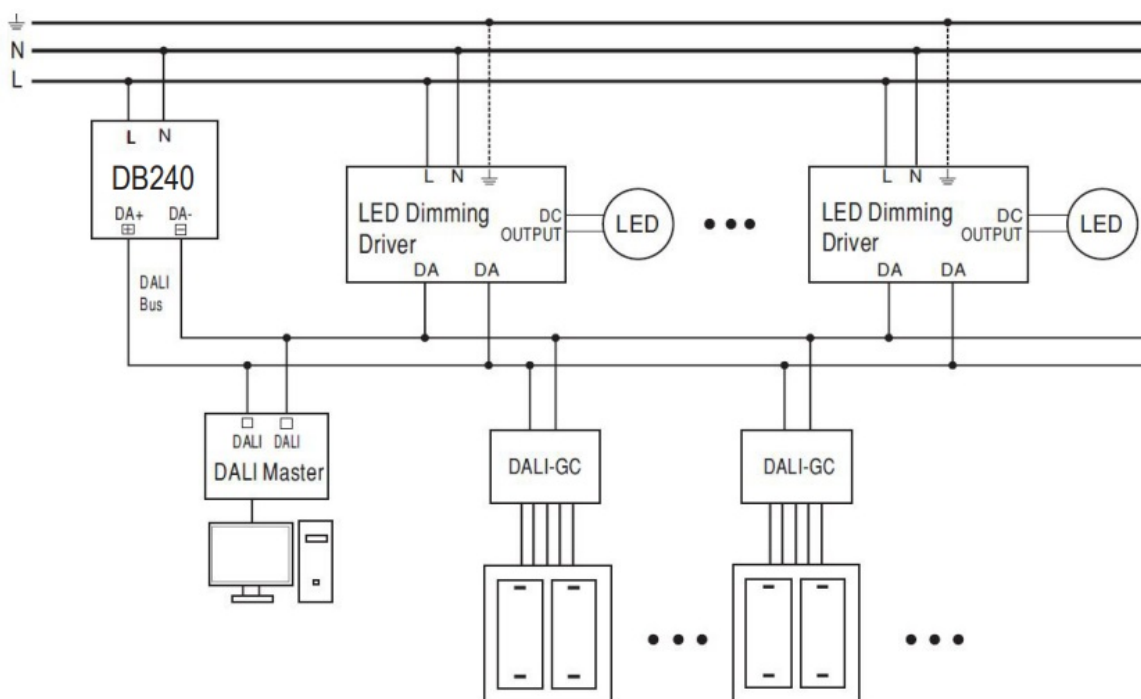


High voltage. Risk of electric shock. The installation should only be carried out by an authorised electrician.

Technical data

Label	DB240
Item number	V-30S0041-161N
Rated DC voltage	16V
DC voltage range	15.3-18.7V
Guaranteed supply current	240mA
Voltage range	90-264VAC 120-370VDC
Frequency range	47-63Hz
AC Current	0.1A/115VAC 0.06A/230VAC; Model label: 0.4A/100-240VAC
Inrush current	Cold start 20A/230VAC
Leakage current	0.5mA/240VAC
No load power consumption	<0.5W
Short circuit	Yes, recovers automatically
Over voltage	Yes
Working temp	-20°C- +60 °C
Working humidity	20 – 90% non-cond
Storage temp. humidity	-40-+80 °C
Dimensions	145x38x22mm

Wiring diagram



NOTE! Extended installation manual for more information and troubleshooting can be found at Vadsbo's website. Click on "Dokument" on the DB240 product page. Scan the QR code to get to the product page.

<https://www.vadsbo.net/product-db240/>



2020-04-20 DB240
Installation manual print Version 1


postadress
Hilma Anderssons gata 15
421 31 Västra Frölunda

Phone:
+46 (0)31-23 56 00

E-mail:
info@vadsbo.net
order@vadsbo.net

Website/Facebook:
www.vadsbo.net
facebook.com/Vadsbo

Documents / Resources

	<p>VADSBO CBU-DCS Bluetooth Controller [pdf] Instruction Manual CBU-DCS Bluetooth Controller, CBU-DCS, Bluetooth Controller, Controller</p>
---	---

References

- [Vadsbo LightTech AB – Vi utvecklar, designar och säljer trådlösa ljusstyrningslösningar för stora & smarta projekt.](#)
- [Product categories \(EN\) – Vadsbo LightTech AB](#)
- [DALI-strömförsörjning DB240 – Vadsbo LightTech AB](#)