sceneCOM S CWM 30 BT DA2
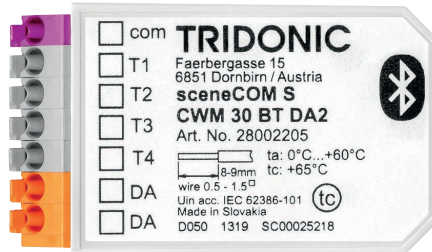sceneCOM S (single-channel)

Product description

DALI Application Controller

- Support for complete Tridonic control gear with DALI and DALI-2, as well as control gear certified by other brands with DALI and DALI-2
- Future-proof thanks to simple firmware update via Bluetooth App
- 4 independent inputs enabling connection of floating contact, standard momentary switches
- Power supply via DALI line
- Small dimensions
- 5-year guarantee

Interfaces

- DALI line
- 4 independent inputs enabling connection of floating contact, standard momentary switches
- Wireless communications via Bluetooth

Functions

- DALI addressing
- DALI Grouping
- Sensor-based automation including presence/movement detection, daylight-linking
- Tunable white application
- Mobile comissioning APP with the intuitive user interface availible for Android and iOS
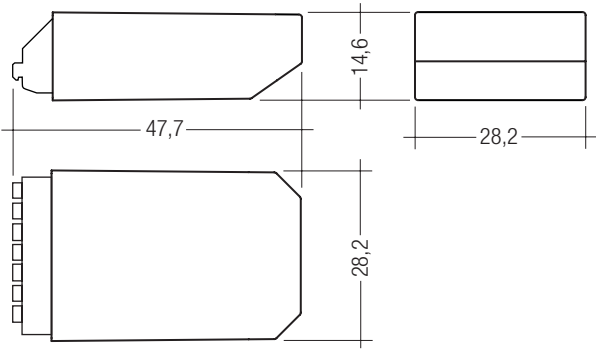
→

Standards, page 3
Wiring diagrams and installation examples, page 3

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sceneCOM S CWM 30 BT DA2
sceneCOM S (single-channel)

Technical data

Supply via	DALI cable
Supply voltage[①]	9.5 – 22.5 V
Current consumption	max. 30 mA
Bluetooth version	≥ 4.1
Bluetooth range	up to 20 m
Input	4 momentary switches or relais
Output	DALI
Ambient temperature ta	0 … +60 °C
tc	65 °C
Storage temperature	-25 … +60 °C
Humidity	20 … 90 % (non-condensing)
Turn on time	≤ 6 s
Type of protection	IP20
Mounting	Mounting box 60 x 61 mm (ø x D)
Casing material	Lexan 923
Casing colour	Light gray, similar to RAL 7035
Dimension L x W x H	47.7 x 28.2 x 14.6 mm

[①] Uin acc. IEC 62386-101.

Ordering data

Type	Article number	Packaging, carton	Weight per pc.
sceneCOM S CWM 30 BT DA2	**28002205**	60 pc(s).	0.012 kg

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1. Standards

EN 61347-2-11:2001
EN 61347-1:2015
EN 300 328 V2.1.1
EN 301 489-1 V2.1.1
EN 301 489-17 V3.1.1
EN 55015:2013 + A1:2015
EN 61547:2009
EN 62479:2010
EN 62386-101 Ed.2
EN 62386-103 Ed.1
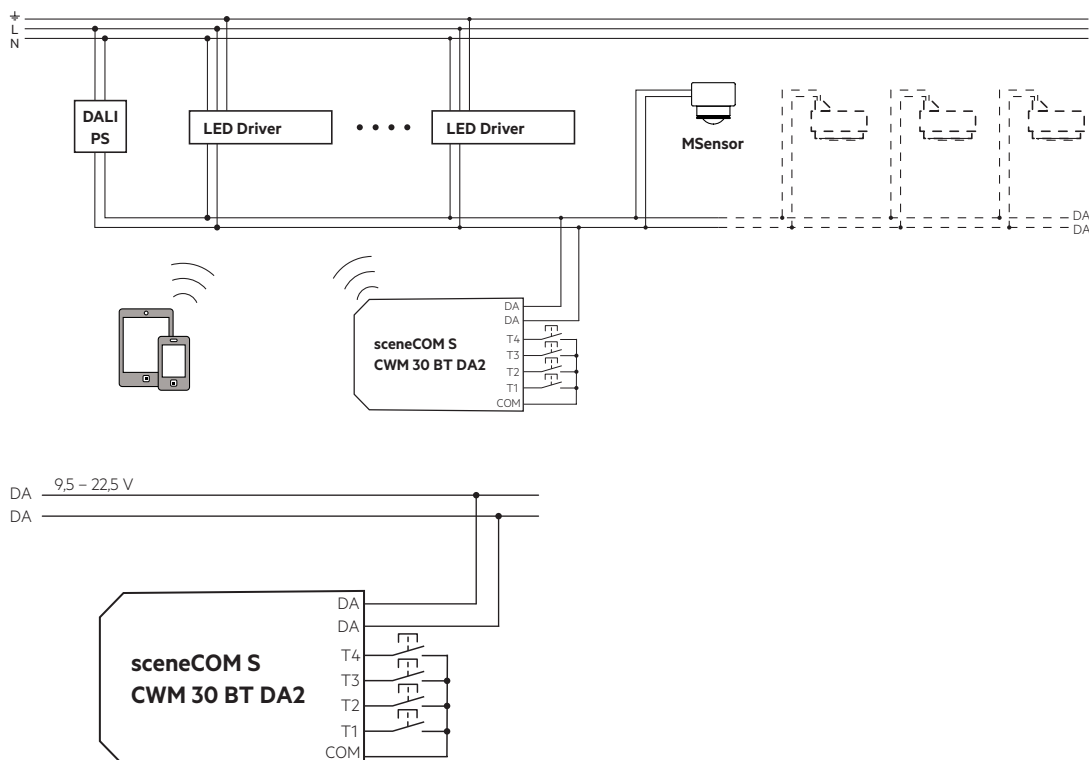EN 62386-301
EN 62386-332

1.1 DALI note

⚠ Device is developed as Multi-Master Application Controller according to DALI Standard EN 62386-101 Ed.2, also known as DALI-2.
Device should not be used in combination with other application controllers.

1.2 Glow wire test

according to EN 61347-2-11 passed for temperatures up to 850°C.

2. Installation

- Device can be inserted into the mounting box for the momentary switch.
- Device must not be connected to the mains. It is supplied directly via the DALI signal line.
- The momentary switches are connected directly to the device (potential free contacts) and must not be connected to the mains.
- DALI signals are not SELV. Therefore the same procedures should be applied as working with mains voltage.
- Only one momentary switch for each device output.
- Only one application controller in the same DALI network allowed.
- Maximum range of the signal is up to 20 m. Avoid mount the device behind glass, concrete surfaces or in metal enclosures.
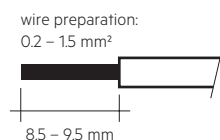 If mounted behind such materials the signal range will be reduced.

2.1 Connection diagrams

2.2 Wiring type and cross section

The wiring can be solid wire or stranded wire with end sleeve with a cross-section of 0.2 mm² to 1.5 mm².
Maximum cable length between momentary switch and sceneCOM S is 50 cm.

wire preparation:
0.2 – 1.5 mm²

8.5 – 9.5 mm

2.3 Terminals

Orange = DALI D1 and D2
Grey = Push button inputs T1 – T4
Purple = Push button common

2.4 Mounting

Maximum range of the signal is up to 20 m.
Avoid mount the device behind glass or concrete surfaces and in metal enclosures.
If mounted behind such materials the signal range will be reduced.

2.5 Configuration

For commissioning and configuration the App „sCS commissioning" (sceneCOM S) is provided by Tridonic. App can be installed on iOS and Android devices. Compatible with Android 6.0 / iOS 10 or later.
Recommended to be used with devices with a min. screen size of 20 cm diagonal and a min. resolution of 1,024 x 768 pixels.
The device must support Bluetooth Low Energy version 4.1 or higher.

Android: iOS:

2.6 Application Controller Features

The Application Controller is developed to be future safe. To achieve this the firmware can be updated via the commissioning app over the air.
Features like addressing, grouping, scenes are already implemented and can be used.

• Number of control gears = 64
• TuWh, Device Type 8 (as specified in IEC-62386-209 Ed.1) fully supported
• Number of input devices in total = 16 (max. 16 instances each)
• Number of groups = 16 according to DALI-2 Standard
• Number of scenes = 16 according to DALI-2 Standard

All Tridonic DALI-2 control devices e. g. MSensor G3 or DALI XC G3 are fully implemented and configurable.

As the application controller supports an easy way to update the firmware and develop new features an additional document with the extended release notes is available and can be downloaded from the Tridonic web page.
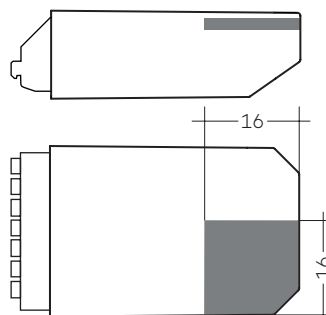
2.7 Placement

Device has an integrated antenna. Certain materials can reduce the range of the antenna. During assembly, the following should be observed.
The antenna is located at the corner of the case, at the bottom of the PCB, just above the bottom of the device. By placing the antenna at this point, the influence of other components on the antenna performance is minimized.
In addition, the device should be placed as far away as possible from metal structures.
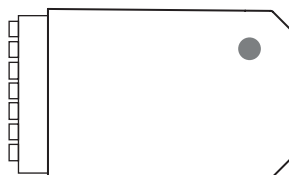Wires of the device should not lead past the antenna.

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■ Antenna location

2.8 Status LED

Device is equipped with an multi color LED placed behind the label.
Depending on colour and flashing pattern different status information are provided.

Status LED	Indicates
Blue blinking	Bluetooth connection active
Red blinking	At least one input closed

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3. Miscellaneous

3.1 Disposal of equipment

Return old devices in accordance with the WEEE directive to suitable recycling facilities.

3.2 Additional information

Additional technical information at www.tridonic.com → Technical Data

Guarantee conditions at www.tridonic.com → Services

Life-time declarations are informative and represent no warranty claim.
No warranty if device was opened.

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