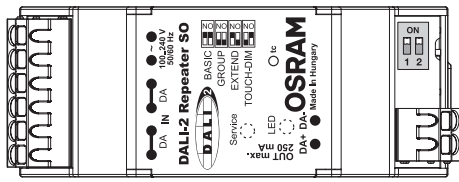
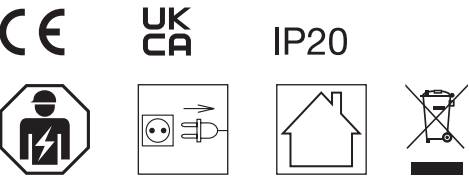


DALI-2 REPEATER SO



inventronics

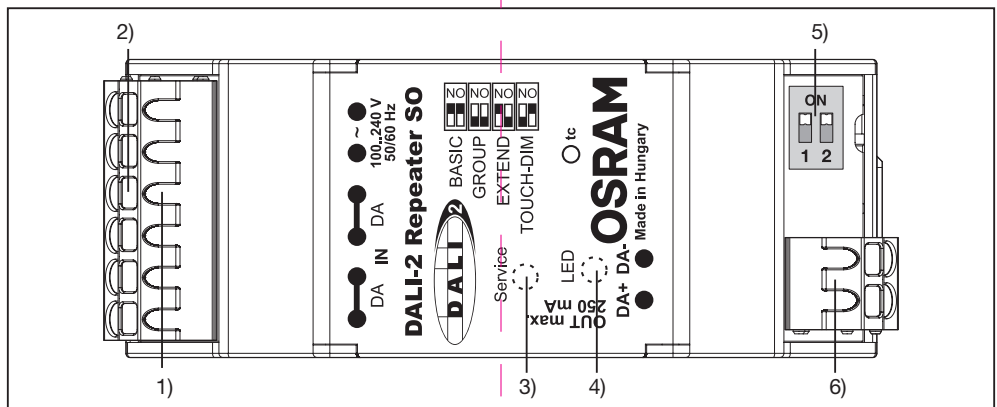
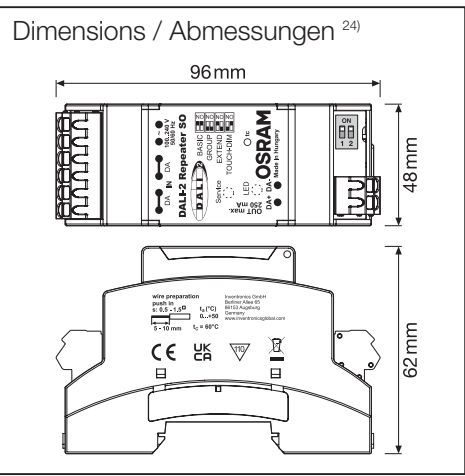


EN 61347-2-11
EN 55015
EN 61547

Inventronics GmbH
Berliner Allee 65
86153 Augsburg
Germany
www.inventronicsglobal.com

C10586068
G15129571
23.09.24

PAP



- 1) Control input ³¹⁾
- 2) Mains voltage ³²⁾
- 3) Service button ³³⁾
- 4) Feedback LED ³⁴⁾
- 5) DIP switch ³⁵⁾
- 6) DALI interface ³⁶⁾

The DALI-2 Repeater SO was developed exclusively for installation in switch cabinets.

The DALI interfaces IN and OUT are isolated from the mains connection. Connecting the DALI OUT interface to an external voltage, especially the mains voltage, will severely damage the device! The DALI-2 Repeater SO is not cascadable. The device can be operated in four different operating modes, set by the DIP switch. Additional settings can be made with the T4T software via the DALI IN interface in GROUP mode. The DALI IN interface is DALI certified in BASIC mode.

Start-up:

1. Set the operating mode using the DIP switch.
2. Connect the components.
3. Switch on the power.

Please note: Changing the operating mode will immediately impact the DALI output. Example: existing configuration in EXTEND mode is overwritten in GROUP mode. ²⁵⁾

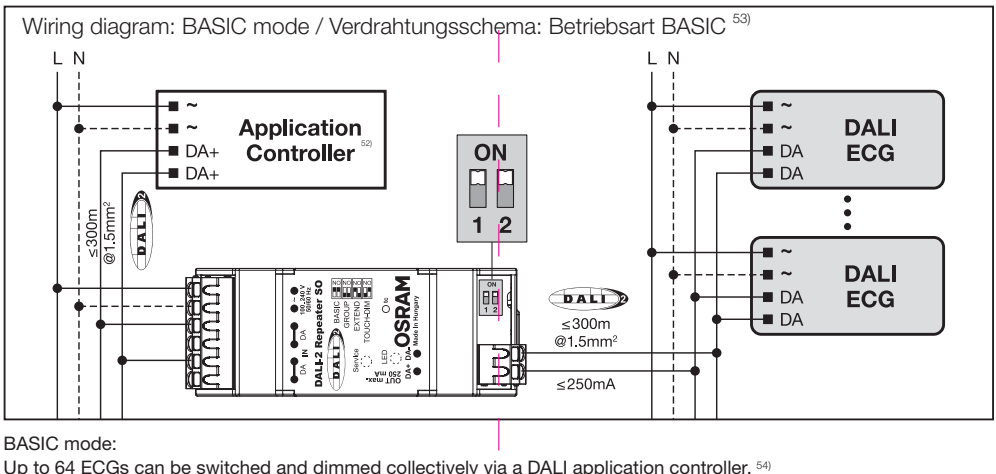
LED Indicator / LED Anzeige ³⁷⁾

Green "flashing" ³⁸⁾	Auto configuration active / No driver at DALI output ³⁹⁾
Green "permanent" ⁴⁰⁾	Status OK, active ⁴¹⁾
Yellow "flashing" ⁴²⁾	Lamp error detected at DALI output ⁴³⁾
Yellow "permanent" ⁴⁴⁾	Service mode ⁴⁵⁾
Red "flashing" ⁴⁶⁾	Problem at DALI output (overcurrent/short circuit) ⁴⁷⁾
Red "permanent" ⁴⁸⁾	No voltage at the control input ⁴⁹⁾

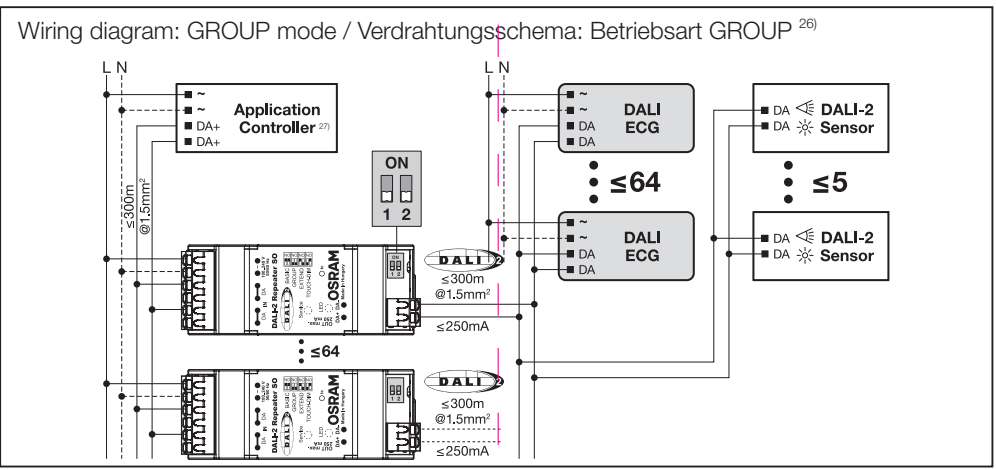
Technical Data / Technische Daten ¹⁾

Power Supply ²⁾	
Nominal input voltage ³⁾	110-230 V
Mains frequency ⁴⁾	50/60 Hz
Max. input current ⁵⁾	20 mA
Total harmonic distortion ⁶⁾	< 10%
Max. inrush current ⁷⁾	20 A
IN: DA / DA ⁸⁾	
Input voltage range ⁹⁾	9,5-22,5 V
Current consumption ¹⁰⁾	< 2 mA
OUT: DA+ / DA- ¹¹⁾	
Output voltage range ¹²⁾	9,5-22,5 V
DALI Supply current ¹³⁾	250 mA
Short circuit protection ¹⁴⁾	Yes ¹⁵⁾
Overcurrent protection ¹⁶⁾	Yes ¹⁵⁾
TOUCH DIM ¹⁷⁾	
Total wire length ¹⁸⁾	20 m

Ambient temperature range t _a ¹⁹⁾	0...+50°C
Max. case temperature t _c ²⁰⁾	70°C
Max. case temperature in fault condition ²¹⁾	110°C
Insulation type (Power supply / DALI) ²²⁾	Basic ²³⁾



BASIC mode:
Up to 64 ECGs can be switched and dimmed collectively via a DALI application controller. ⁵⁴⁾



GROUP mode:
A maximum of 64 DALI-2 ECGs (DT6 or DT8 TW) can be controlled collectively by a higher-level control unit for each DALI-2 Repeater SO. This significantly reduces the number of subscriber addresses at the higher-level control unit. In addition, up to five DALI-2 sensors (light and presence sensors) can be connected. These are displayed as a light sensor and a presence sensor at the control input.

Construction site function for checking the wiring:
Short press (<0.5s) the service button to activate service mode (yellow LED) for 5s. Each additional short press switches the connected ECGs on/off at the output.

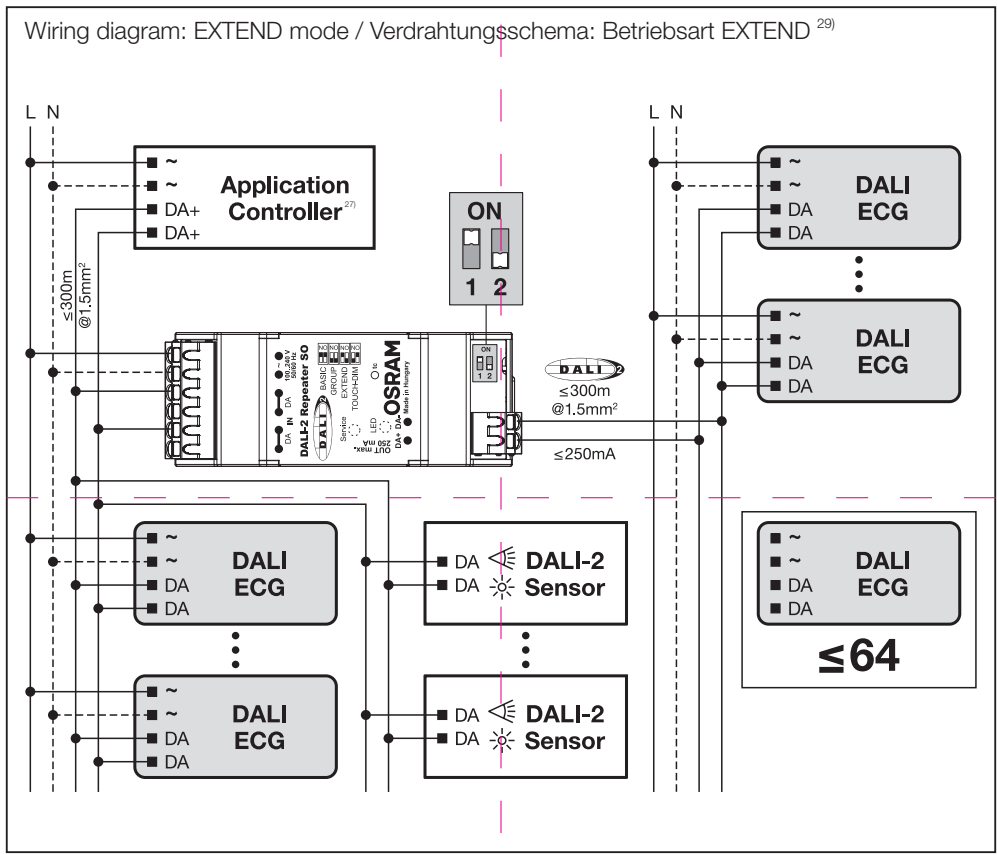
The connected DALI devices are scanned each time the system is started (mains voltage is applied). If additional devices are connected at the DALI output, the device must be restarted in order to perform a new scan.

Activate scan manually:

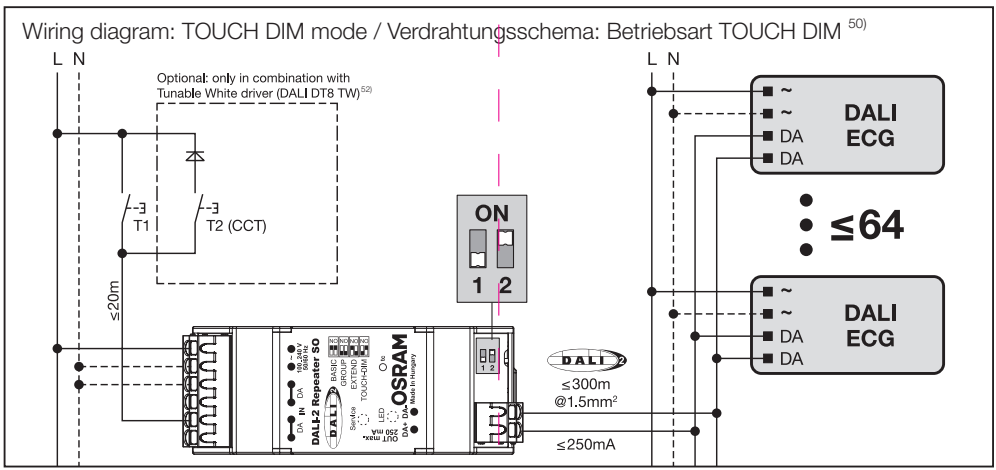
1. Short press (<0.5s) the service button to activate service mode (yellow LED) for 5s.
2. Long press (>3s) with service mode activated (yellow LED) to start a new scan (yellow/green LED flashes).

Reset to factory settings:

1. Short press (<0.5s) the service button to activate service mode (yellow LED) for 5s.
2. Ultra-long press (>10s) with service mode activated (yellow LED) to reset the device to factory settings (LED flashes red/yellow). ²⁸⁾



EXTEND mode:
In EXTEND mode, the DALI line length can be extended by a further 300m (with a wire cross-section of 1.5mm²). The power supply at the DALI output is max. 250mA. The maximum number of DALI devices depends on the higher-level control unit. The service button has no function in EXTEND mode. ³⁰⁾



TOUCH DIM mode:
Up to 64 DALI ECGs can be switched and dimmed collectively via a standard pushbutton in TOUCH DIM mode. Optionally, the color temperature of DALI DT8 TW devices can be controlled with a pushbutton and upstream diode.

Function:

- Short press T1: Switch on/off.
- Long press T1: Dim up/down.
- Double press T1 when switched on: Save the current brightness as the switch-on brightness.
- Double press T1 when switched off: Delete the saved switch-on brightness value.
- Long press T2: Change color temperature (warmer/cooler). ⁵¹⁾

