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PHASE DIMMER, ACTUATORS & SIGNAL CONVERTERS

DALI   DALI 2

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The following components play a central role in regulating, controlling and adapting signals. Their functions range from modulating electrical waves to converting signals into different forms, making them crucial building blocks in a variety of applications. This makes it possible to integrate loads without a DALI connection into the DALI system.

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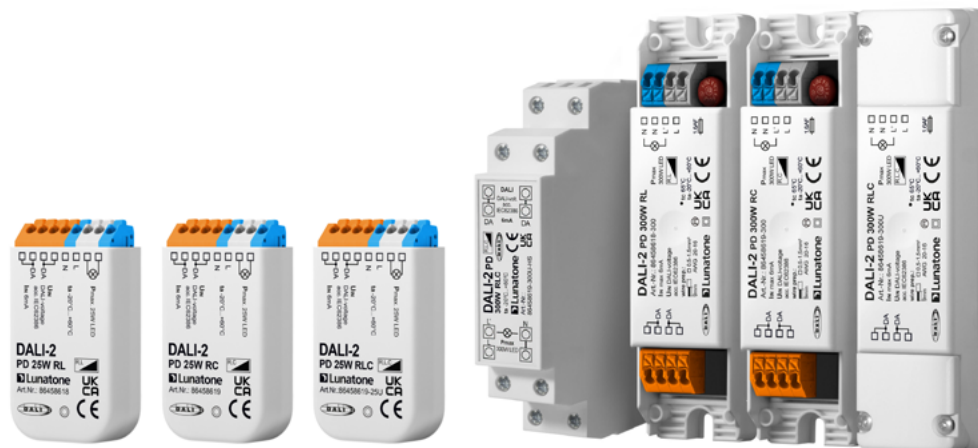
DALI-2 PD - DALI 240V phase dimmer

Phase dimmer with DALI control input for integrating 240V retrofit LED lights into a DALI system. DALI PD is available for leading edge, trailing edge or as universal device with automatic load detection.
The DALI-2 PD also supports the operating mode as a DALI controlled electronic switch.

When installing many small LED lights, dimmed by a single DALI PD, the inrush current and power factor must be taken into account.
DALI PD is available as a compact 25W version or in the 300W version.

| NAME	ARTICLE NUMBER	INPUT	OUTPUT	SUITABLE LOADS	LOAD RANGE	MODEL	DIMENSIONS (MM)
DALI-2 PD 25W universal dimmer	86458619-25U	DALI, 240V AC	240V AC	leading/trailing edge R,L,C	3 - 25W	for flush-type installation boxes	59 × 33 × 15
DALI-2 PD 25W trailing edge phase cut dimmer	86458619	DALI, 240V AC	240V AC	trailing edge R,C	3 - 25W		
DALI-2 PD 25W leading edge phase cut dimmerr	86458618	DALI, 240V AC	240V AC	leading edge R,L	3 - 25W		
DALI-2 PD 300W universal dimmer	86458619-300U-HS	DALI, 240V AC	240V AC	leading/trailing edge R,L,C	10 - 300W	for DIN rail	98 × 17,5 × 57
DALI-2 PD 300W universal dimmer	86458619-300U	DALI, 240V AC	240V AC	leading/trailing edge R,L,C	10 - 300W	with strain relief for suspended ceilings	120 × 30 × 22
DALI-2 PD 300W trailing edge phase cut dimmer	86458619-300	DALI, 240V AC	240V AC	trailing edge R,C	10 - 300W		
DALI-2 PD 300W leading edge phase cut dimmer	86458618-300	DALI, 240V AC	240V AC	leading edge R,L	10 - 300W		
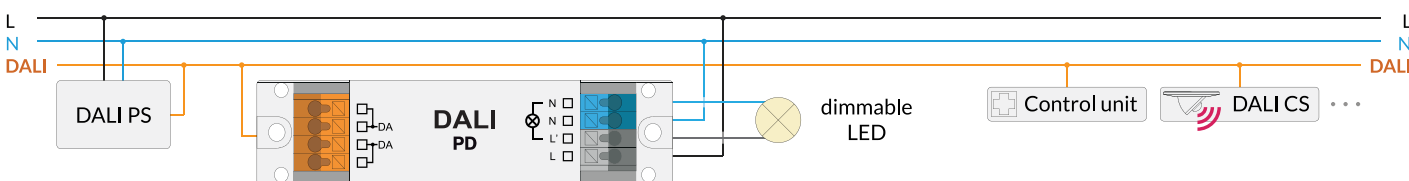
Relay modules RM8 / RM16

The DALI RM8 and DALI RM16 devices provide a relay contact that can be controlled via the DALI bus to switch continuous loads up to 2kW. Various compact designs as well as versions with normally open contacts or changeover contacts are available. Targeted switching in the voltage zero crossing protects the switching contact and increases the device lifetime.

The product range also includes versions with integrated inrush current limitation, these are suitable for applications with very high inrush current peaks.
Power-up mode and system-failure settings can be configured using the DALI Cockpit PC Software.
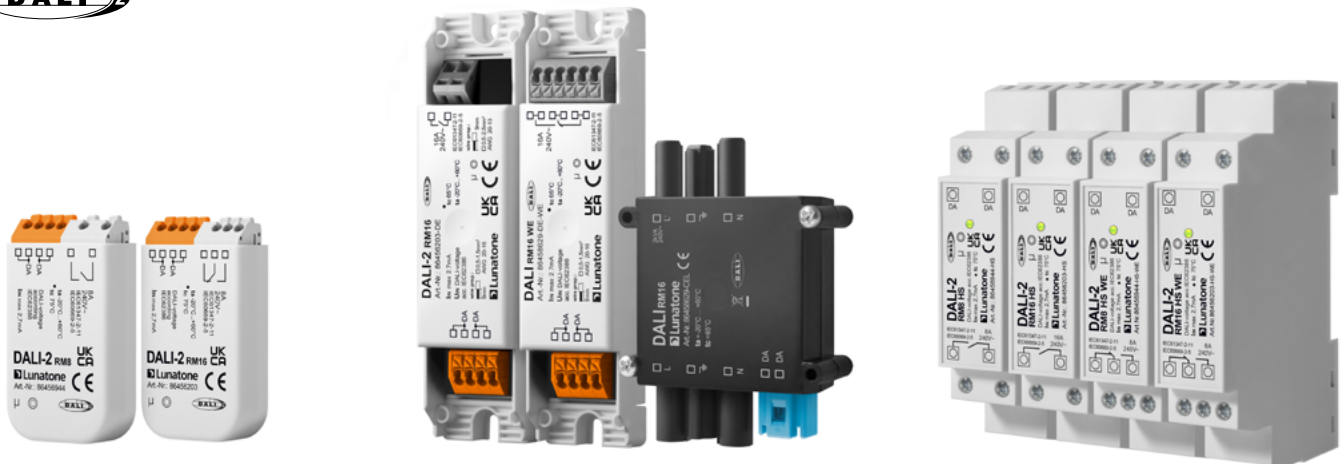
| NAME	ARTICLE NUMBER	MAX. NOMINAL LOAD; CIRCUIT BREAKER	MAX. BREAKING CURRENT	MAX. CONTINUOUS CURRENT	TYPE OF RELAY CONTACT	MODEL	DIMENSIONS (MM)
DALI-2 RM8	86456944	1000VA; 6A max	12A	8A	1 normally open	for flush-type installation boxes	59 × 33 × 15
DALI-2 RM16	86456203	1000VA; 6A max	12A	8A	1 changeover		
DALI-2 RM16 DE	86456203-DE	2000VA; 12A max	25A	16A	1 normally open	with strain relief for suspended ceilings	120 × 30 × 22
DALI RM16 DE WE	86458629-DE-WE	2000VA; 12A max	25A	16A	1 changeover		
DALI RM16 Wieland connector	86458629-CEL	2000VA; 12A max	25A	16A	1 normally open	with Wieland connectors	85 × 62 × 18
DALI-2 RM8 DIN rail	86456944-HS	1000VA; 6A max	8A	8A	1 normally open	for DIN rail	98 × 17,5 × 57
DALI-2 RM8 DIN rail WE	86456944-HS-WE	1000VA; 6A max	8A	8A	1 changeover		
DALI-2 RM16 DIN rail	86456203-HS	2000VA; 12A max	16A	16A	1 normally open		
DALI-2 RM16 DIN rail WE	86456203-HS-WE	2000VA; 12A max	16A	8A	1 changeover		
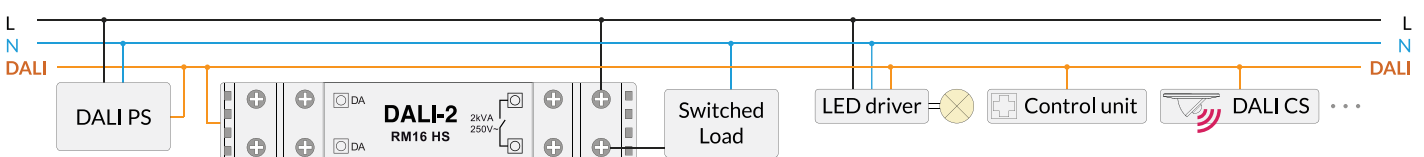
DALI-2 4Ch PD
- 4 channel phase dimmer

Phase dimmer with DALI input to control dimmable 240V luminaires in a DALI system. The 4 channel phase dimmer is suitable for 4×10W loads. Each channel has its own DALI address. Leading edge or trailing edge can be set with the software tool DALI Cockpit. The DALI-2 4Ch PD also supports the operating mode as a DALI controlled electronic switch. The DIN rail housing is suitable for installation in control cabinets.

NAME	ARTICLE NUMBER	INPUT	MAX. CONTROL POWER	NR. OF DALI ADDRESSES	SUITABLE LOADS	OUTPUT VOLTAGE RANGE	MODEL	DIMENSIONS (MM)
DALI-2 4Ch PD	86451975-HS	DALI, 240V AC	4× 10W	4	leading/trailing edge R,L,C	0 to 230VAC	for DIN rail	98 × 17,5 × 57
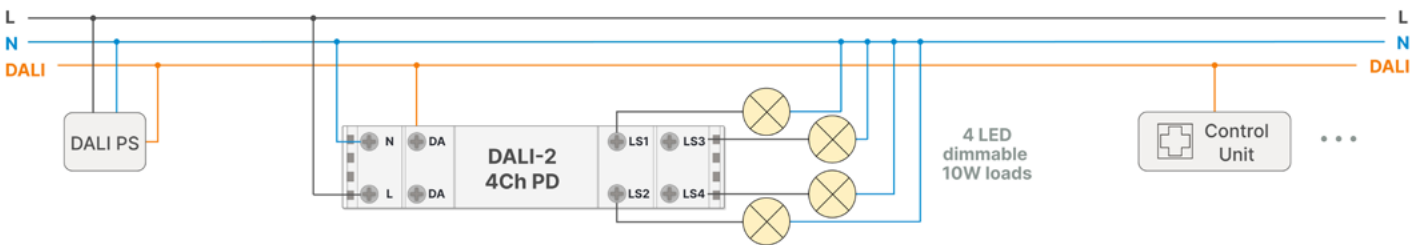
DALI-2 4Ch E-RM
- 4 channel electronic
relay control

DALI-2 4Ch E-RM provides 4 switching outputs that can be controlled via the DALI bus (DALI DT7). This means that 240V loads without a DALI input can easily be integrated into a DALI circuit and switched on and off using DALI commands. Each channel has its own DALI address. Power-up mode and system-failure settings can be configured using the software tool DALI Cockpit. The DIN rail housing is suitable for installation in control cabinets.

| NAME	ARTICLE NUMBER	INPUT	SWITCHING POWER MAX.	NR. OF DALI ADDRESSES	SWITCHING OUTPUT	OUTPUT VOLTAGE RANGE	MODEL	DIMENSIONS (MM)
DALI-2 4Ch E-RM	86450563-HS	DALI, 240V AC	4× 10W	4	mains voltage	0 to 230VAC	for DIN rail	98 × 17,5 × 57
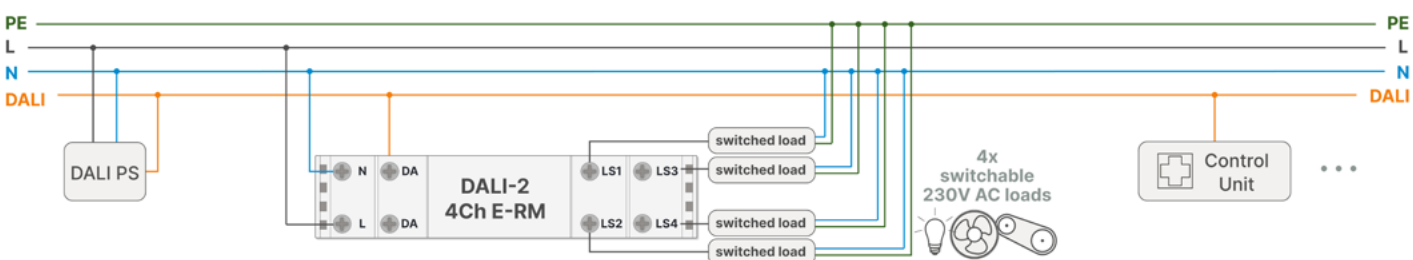
wDALI RM8 - wireless relay module

The wDALI relay module is used to wirelessly control non-dimmable loads. The set consists of a transmitter and a receiver. The transmitter is connected to and powered by the DALI bus (3.8mA). The receiver with relay function is powered by mains voltage. Under optimal conditions the reception range is 300m, in buildings usually 10-20m.

NAME	ARTICLE NUMBER	MAX. NOMINAL LOAD; CIRCUIT BREAKER	MAX. SWITCHING CURRENT	TYPE OF RELAY CONTACT	FREQUENCY RANGE	MODEL	DIMENSIONS (MM)
wDALI RM8 + Transmitter	86459542+TM	1000VA; 6A max	max. 8A	1 on/off	2,4GHz	for flush-type installation boxes	59 × 33 × 15
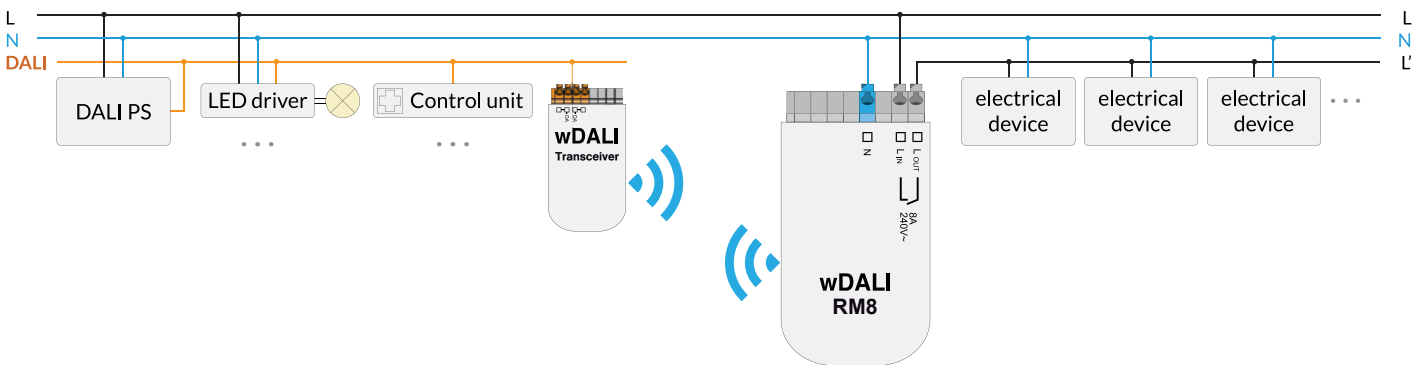
DALI 4Ch RC - 4 channel relay control

DALI relay controller with 4 channels. Each channel has its own DALI address. Designed for controlling relays and contactors with 12V to 48V DC control input. Different versions suitable for DIN rail mounting or remote ceiling installation (housing with strain relief) are available.

| NAME	ARTICLE NUMBER	INPUT VOLTAGE	MAX. INPUT CURRENT	NR. OF DALI ADDRESSES	OUTPUT CURRENT PER CHANNEL	MODEL	DIMENSIONS (MM)
DALI-2 4Ch RC DIN rail	89453860-HS	12-48V DC	max. 8A	4	max. 2A	for DIN rail	98 × 17,5 × 57
DALI-2 4Ch RC	89453860-DE	12-48V DC	max. 8A	4	max. 2A	with strain relief for suspended ceilings	120 × 30 × 22
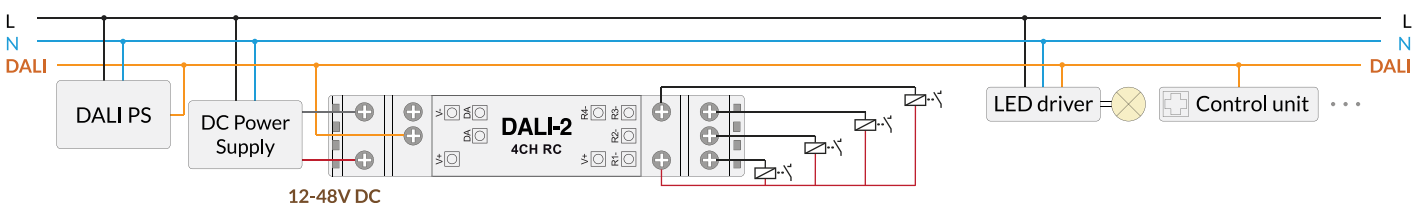
DALI Jalousie - 230VAC

The DALI Jalousie module can be used to control blind motors with 240V control input via DALI. Four configurable profiles can be programmed to open/close the blinds and to change the tilt angle. Different versions suitable for DIN rail mounting or remote ceiling installation (housing with strain relief) are available.

NAME	ARTICLE NUMBER	SUPPLY	TYP. DALI CURRENT CONSUMPTION	OPERATING TEMPERATURE (TA)	MODEL	DIMENSIONS (MM)
DALI Jalousie DIN rail	86458676-HS	via DALI line	5,5mA	-20°C ... +60°C	for DIN rail	98 × 17,5 × 57
DALI Jalousie	86458676-DE	via DALI line	5,5mA	-20°C ... +60°C	with strain relief for suspended ceilings	120 × 30 × 22
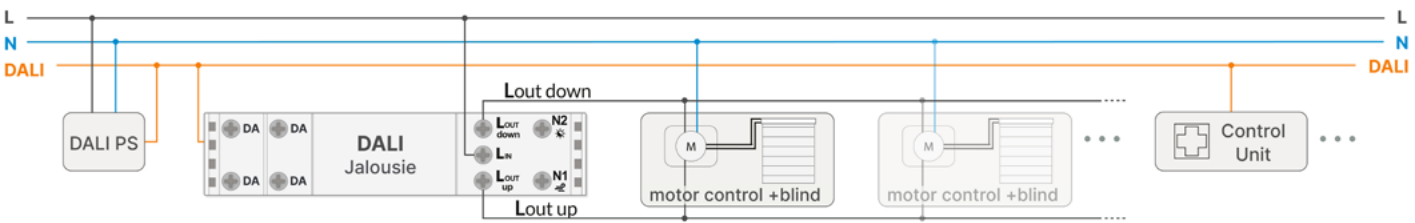
DALI RM8 / RM16 0-10V - relay modules with 0-10V control input

0-10V interface with 8A or 16A relay. This interface converts DALI signals into 1-10V control signals and thus enables the integration of devices with 1-10V control input into a DALI system. With the integrated switching relay, the power supply of the operating devices can be switched on and off. The modules are compliant with DALI Device Type 5 (IEC62386-206). The Linear or logarithmic dimming curve as well as the 0-10V or 1-10V control voltage range are adjustable via the DALI Cockpit software. The devices with PWM (see table) can also control operating devices with PWM input. The DALI input is galvanically isolated from the PWM/1-10V output.

| NAME	ARTICLE NUMBER	SWITCHING CURRENT RELAY CONTACT	TYPE OF RELAY CONTACT	OUTPUT (0-10V)	MODEL	DIMENSIONS (MM)
DALI RM8 PWM	86458668	max. 8A	1 on/off	0-100% PWM (14Bit, 488Hz), current sink 2mA	for flush-type installation boxes	59 x 33 x 15
DALI RM8 1-10V AN	86458668-AN	max. 8A	1 on/off	1-10V analog, current sink 1mA	for flush-type installation boxes	59 x 33 x 15
DALI RM16 1-10V with Wieland connectors	86458936	max. 16A	1 on/off	0-100% PWM (14Bit, 488Hz), current sink 2mA	with Wieland connectors	85 x 22 x 60
DALI RM16 0-10V PWM DE	86458667-DE	max. 16A	1 on/off	0-100% PWM (14Bit, 488Hz), current sink 2mA	with strain relief for suspended ceilings	120 x 30 x 22
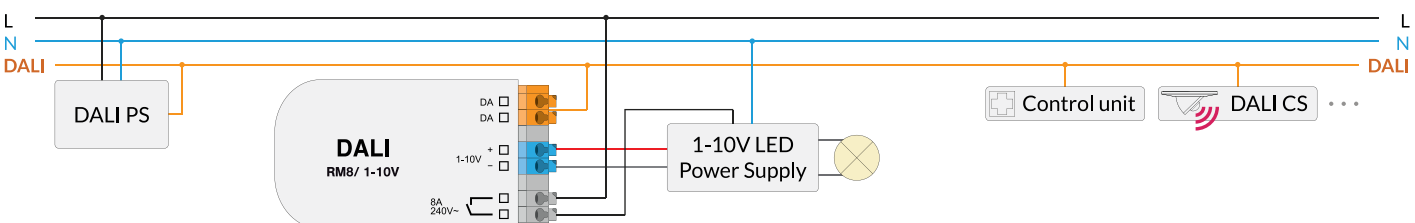
DALI RM8 / RM16 2×0-10V - operating 2 devices with 0-10V control input

This interface converts DALI signals into a 1-10V control signal and allows the integration of operating devices with two 1-10V control inputs for brightness and colour temperature into a DALI system. Output mode for channel1 / channel2 can be defined as either Brightness/Tc or separate channels for CW and WW.

NAME	ARTICLE NUMBER	SWITCHING CURRENT RELAY CONTACT	TYPE OF RELAY CONTACT	OUTPUT (1-10V)	MODEL	DIMENSIONS (MM)
DALI RM16 2×0-10V DIN rail	89453857-HS	max. 16A	1 on/off	channel 1: 1-10V analog, current sink 1mA	for DIN rail	98 x 17,5 x 57
DALI RM16 2×0-10V DE	89453857-DE	max. 8A	1 on/off	channel 2: 1-10V analog, current sink 1mA	with strain relief for suspended ceilings	120 x 30 x 22
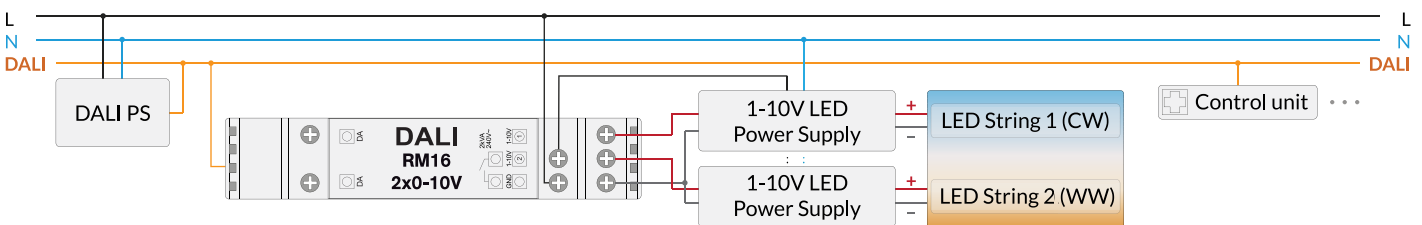
wDALI RM8 0/1-10V PWM - wireless relay module with 0/1-10V PWM control output

Wireless 0-10V PWM interface with integrated 8A relay. The set consists of a transmitter and a receiver and is used to wirelessly control lights with 0-10V / 1-10V / PWM operating devices.
The transmitter is connected to and powered by the DALI bus (3.8mA). The receiver has a 0-10V PWM output and a relay function and is powered by mains voltage.
The wDALI RM8 0-10V enables the wireless integration of electrical devices such as floor lamps and outdoor lighting into a DALI system. Under optimal conditions the reception range is 300m, in buildings usually 10-20m.

NAME	ARTICLE NUMBER	SWITCHING CURRENT RELAY CONTACT	TYPE OF RELAY CONTACT	OUTPUT (0-10V)	MODEL	DIMENSIONS (MM)
wDALI RM8 0-10V PWM + Transmitter	89453852+T	max. 8A	1 on/off	0-100% PWM (16Bit, 488Hz), current sink 1mA	for flush-type installation boxes	59 x 33 x 15
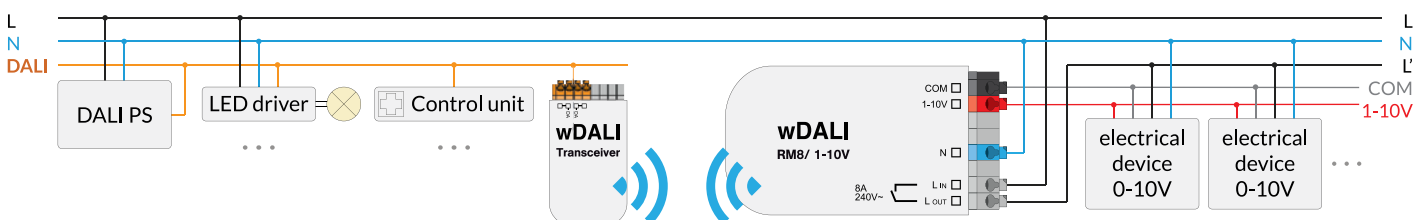
DALI 0/1-10V - converting DALI to 0-10V, 1-10V or PWM

These interfaces convert DALI signals into 0-10V, 1-10V or PWM control signals, thus enabling the integration of electrical devices with 0-10V control inputs into a DALI system, options listed in table below.

A single module can control up to 10 ballasts. The output voltage range as well as linear or logarithmic dimming curve can be adjusted via the DALI Cockpit Software.

NAME	ARTICLE NUMBER	SIGNAL	SIGNAL RANGE	IOUT SIGNAL	GALVANIC ISOLATION	MODEL	DIMENSIONS (MM)
DALI 0-10V LE	86458508-LE	analog	0 - 10V	current sink: max. 1mA	no	for flush-type installation boxes	40 x 28 x 15
DALI 0-10V AN	86458508-AN	analog	0,6 - 10V	current sink: 100uA-1mA	yes	for flush-type installation boxes	40 x 28 x 15
DALI 0-10V PWM	86458508-PWM	PWM digital	0 - 100% PWM frequency fixed 488Hz	switching current: max. 1mA voltage: max. 10V	yes	for flush-type installation boxes	40 x 28 x 15
DALI PWM 100mA	86458508-100	PWM digital	0 - 100% PWM frequency adjustable: 488Hz / 976Hz	switching current: max. 100mA voltage: max 60VDC	yes	for flush-type installation boxes	40 x 28 x 15

86458508-LE enables the integration of devices that have an integrated galvanic isolation and a 0-10V or 1-10V control input:
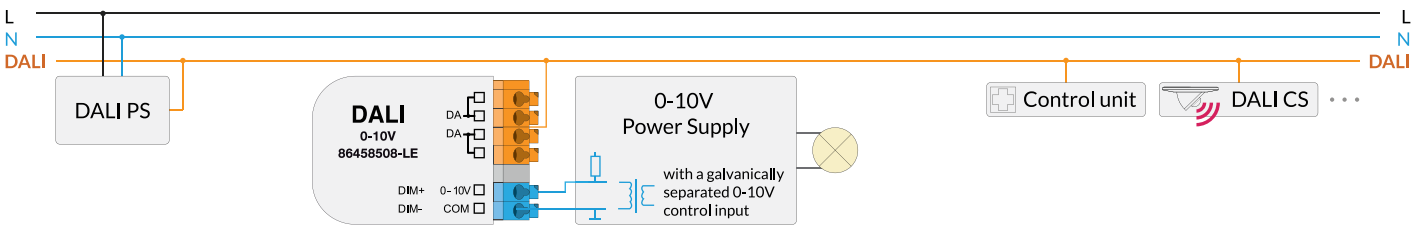
86458508-AN offers a galvanically isolated output and enables the integration of devices with 0-10V or 1-10V control input:
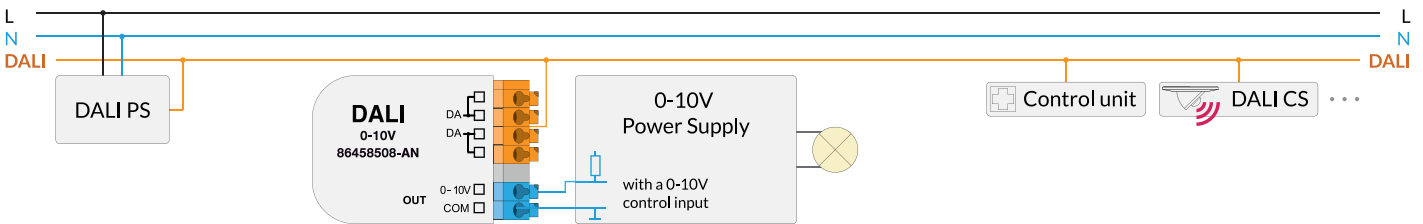
86458508-PWM offers a galvanically isolated output and enables the integration of devices with a PWM control input:
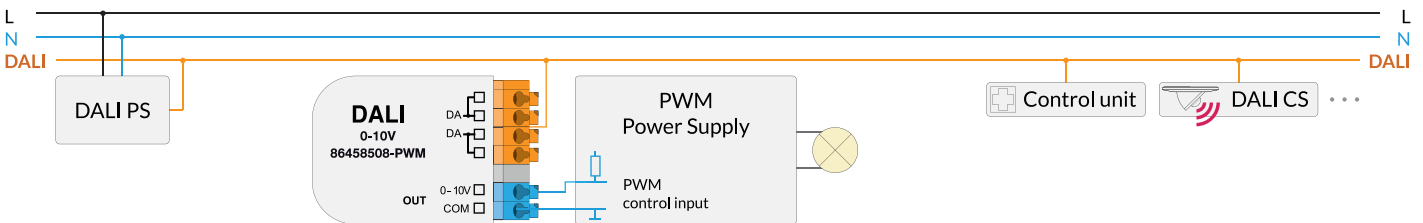
86458508-100 offers a galvanically isolated output and enables the integration of up to 100 devices with PWM control input:
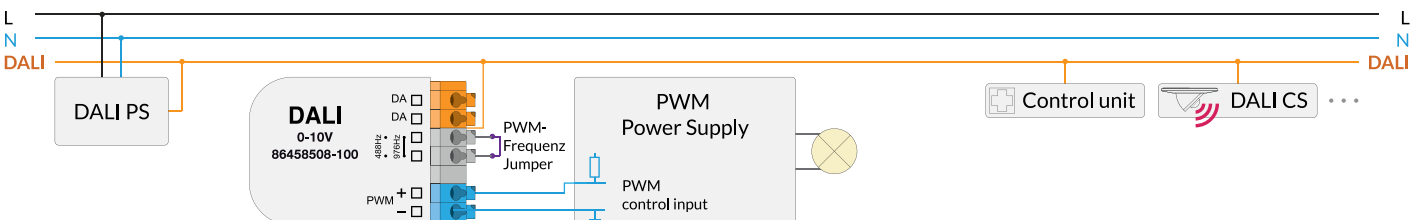
DALI Dim2warm - converting DT6 dimming commands into two DT6 control signals

With only one DT6 DALI address, the Dim2Warm module allows the simultaneous control of brightness while changing the colour temperature. The lower the dimming value, the warmer the light. The output curves of the two channels can be individually adjusted via the DALI Cockpit.
This device can also be used for direct and indirect lighting with just one DALI address.

NAME	ARTICLE NUMBER	CURRENT CONSUMPTION DALI	OUTPUT	OPERATING TEMPERATURE (TA)	DIMENSIONS (MM)
DALI Dim2warm	89453864	4.5mA + current consumption subnet	2xDALI	-20°C ... +60°C	40 × 28 × 15
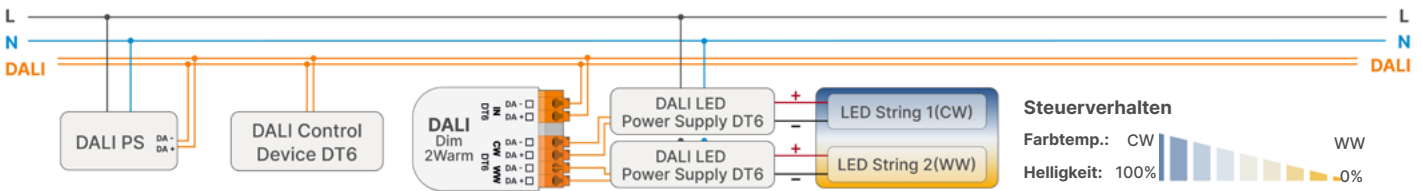
DALI DT8 to DT6 - converting DT8-Tc commands into two DT6 control signals

DALI interface module for converting DT8-Tc control commands into DT6 control signals.
The module allows dimming and adjustment of colour temperature via DT8 commands.
Also suitable for lights with two DALI DT6 operating devices.
Factory setting: separate outputs for cold-white and warm-white channel.

NAME	ARTICLE NUMBER	CURRENT CONSUMPTION DALI	OUTPUT	OPERATING TEMPERATURE (TA)	DIMENSIONS (MM)
DALI DT8 to DT6	89453859	4.5mA + current consumption subnet	2xDALI	-20°C ... +60°C	40 × 28 × 15
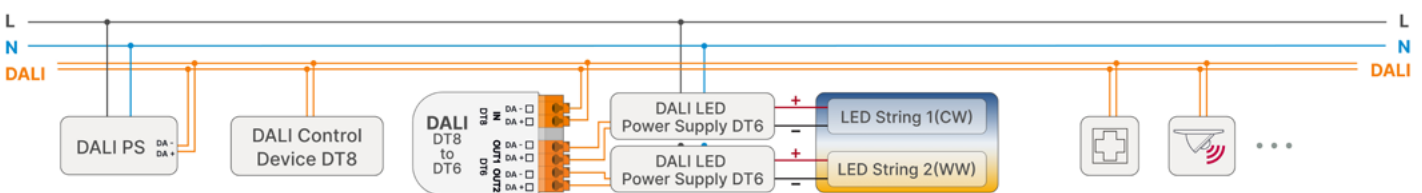
1Ch LED Booster/Dimmer

LED driver (CV) with one channel, can operate as PWM Booster or Dimmer.

The device operates as PWM-Booster, if PWM-signals are applied to the input (50Hz-1kHz).

If operated with 100kΩ potentiometer or 0-10V control device (active and passive), the device functions as Dimmer.

NAME	ARTICLE NUMBER	CONTROL INPUT	MAX. INPUT CURRENT	SUPPLY	DIMENSIONS (MM)
1CH LED Booster/ Dimmer CV 16A	86459838	- PWM (50Hz-1kHz) - 100kOhm potentiometer - 0-10V active/passive	16A	12-48V DC	120 × 30 × 22
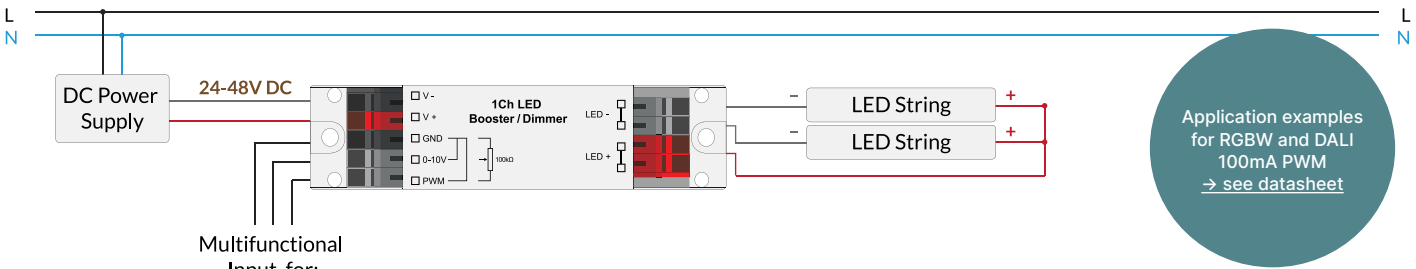
Application examples for RGBW and DALI 100mA PWM
→ see datasheet

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OVERVIEW FOLDER A-E

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