



LED DRIVER DR DA 42/2

DALI-2 DT6 | 2x42W | 200 – 1050 mA

005-6121030

Quickinfo

INPUT VOLTAGE

48V DC +/- 2% (SELV)

OUTPUT CHANNELS

2 x

MAX. OUTPUT POWER / CHANNEL

42W

OUTPUT VOLTAGE / CHANNEL

10 – 40V

OUTPUT CURRENT / CHANNEL

200 – 1050mA

OUTPUT CURRENT TOLERANCE

+/- 5%

DIMMABLE

2x DALI-2/DT6

DIMMING RANGE

1 – 100%

1% at 1050mA; 2.6% at 200mA

FLICKER-FREE

SVM ≤ 0.4; PST LM ≤ 1.0

STAND-BY POWER

≤ 0.5W

MAX. CASE TEMP. T_c MAX

90°C

MAX. AMBIENT TEMP. T_A MAX

0°C – +55°C

+35°C at 2100mA total output current

+55°C at 1700mA total output current

For details refer to output current derating curve on page 4.

MTBF

> 400.000h at rated ambient temp.

IP RATING

IP20

MAX. DISTANCE TO LAMP

50m

MAX. WIRE LENGTH*

100m

*This is the total length including forward and return path as well as paths between lamps.

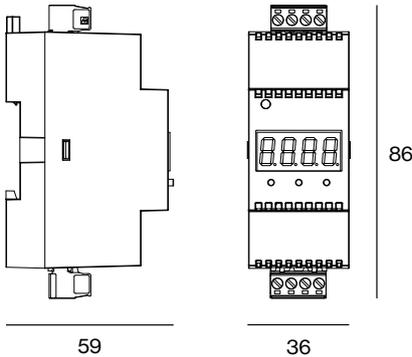
WIRE CROSS SECTION

0.5 – 2.5 mm²



DIN RAIL Constant Current LED Driver; dimmable; DALI-2 (compliant with IEC 62386-101, IEC 62386-102 and IEC 62386-207); GTIN: 9010399000322; DALI addresses and output current adjustable via display menu; 200 – 1050 mA in 50 mA steps; total power up to 84 W; up to 95% efficiency; MTBF > 400.000 h at rated ambient temperature; Degree of protection IP20; Protection: Short Circuit, Open Circuit, Over Voltage, Lamp Failure Detection, Over Temperature shutdown based on NTC thermistor; Status LED Feedback; SELV; 5 years warranty

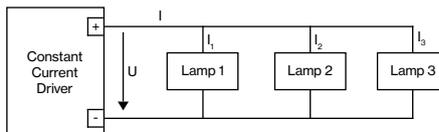
Dimensions



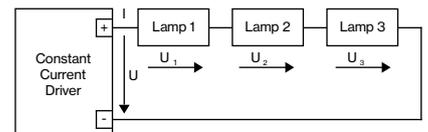
Wire Lengths and Wire Cross Section Diagram

up to 50m	1 mm ²
up to 100m	1.5 mm ²

Parallel Circuit Diagram



Serial Circuit Diagram



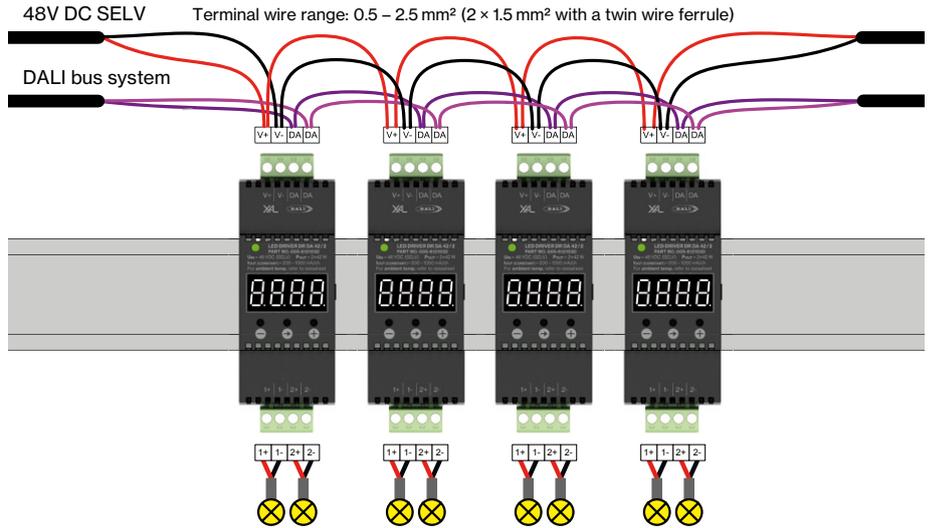


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Wiring Diagram



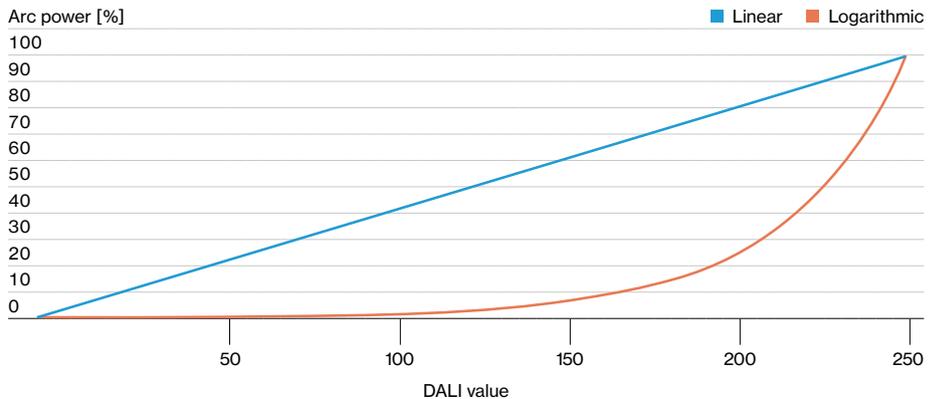
The driver may only be mounted upright due to convection cooling.

DO NOT HOTPLUG: Device must be powered off when cable connections are being changed

Electrical Parameters

OUTPUT CURRENT	OUTPUT VOLTAGE	OUTPUT POWER RANGE	OUTPUT CURRENT	OUTPUT VOLTAGE	OUTPUT POWER RANGE
200 mA	10 – 40V	2.0 – 8W	650 mA	10 – 40V	6.5 – 26W
250 mA	10 – 40V	2.5 – 10W	700 mA	10 – 40V	7.0 – 28W
300 mA	10 – 40V	3.0 – 12W	750 mA	10 – 40V	7.5 – 30W
350 mA	10 – 40V	3.5 – 14W	800 mA	10 – 40V	8.0 – 32W
400 mA	10 – 40V	4.0 – 16W	850 mA	10 – 40V	8.5 – 34W
450 mA	10 – 40V	4.5 – 18W	900 mA	10 – 40V	9.0 – 36W
500 mA	10 – 40V	5.0 – 20W	950 mA	10 – 40V	9.5 – 38W
550 mA	10 – 40V	5.5 – 22W	1000 mA	10 – 40V	10.0 – 40W
600 mA	10 – 40V	6.0 – 24W	1050 mA	10 – 40V	10.5 – 42W

DALI Dimming Diagram



Dimming modes: less than 130mA PWM at 3.4 kHz and 130 mA – 100 % analog dimming

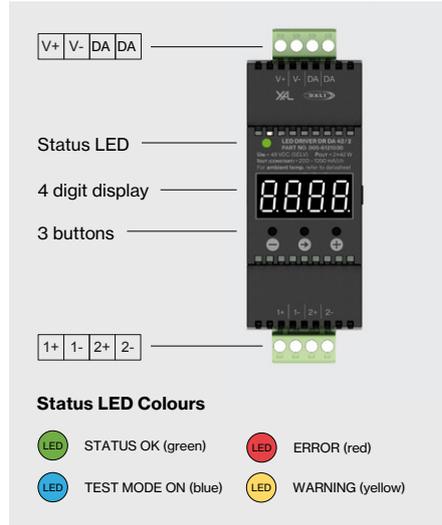


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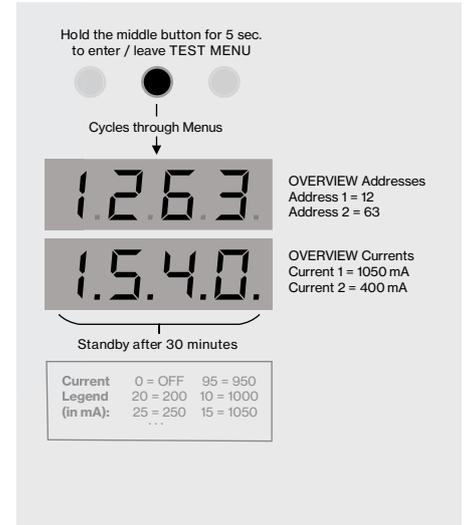
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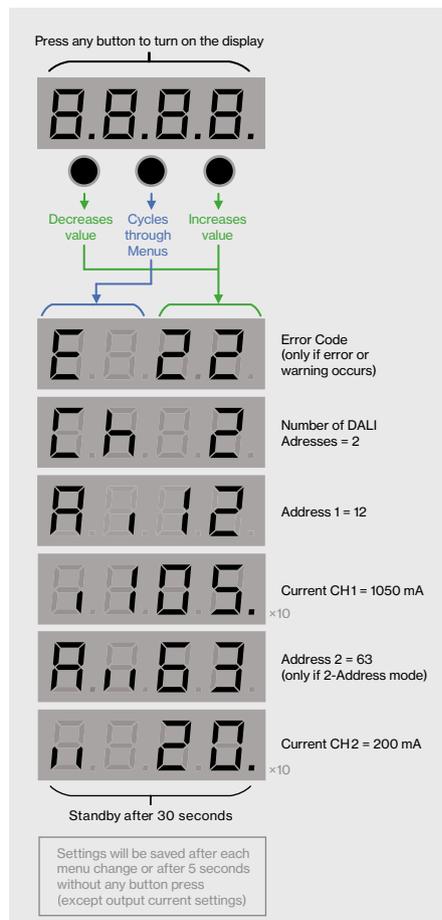
Interface Description



Test Menu



Configuration Menu



Error Codes:

E-11 & E-12	Over Temperature
E-21	Short-Circuit on Output
E-22	Open-Circuit on Output
E-31 & E-32	Lamp Failure
E-41	Output compensation pending
E-51	DALI Bus Error

Protection:

- Unexpected changes in output load are detected as Lamp Failures. These error states must be reset manually, by pressing and holding the outer two buttons for 5 sec., while the error code display is shown.
- In case of over temperature, the system is protected by a power throttle.

Address Modes:

- 1-Address Mode: Both output channels are controlled via a single DALI address. The current settings are still valid for both output channels.
- 2-Address Mode: Each output channel is controlled via an individual DALI address.

DALI addresses can either be set via the menu, or with a DALI addressing routine. In both modes the output channels can be separately disabled, by changing the current setting to 0.

Default Settings:

- 2-Address mode
- Both DALI addresses unassigned
- Both output channels set to 200 mA



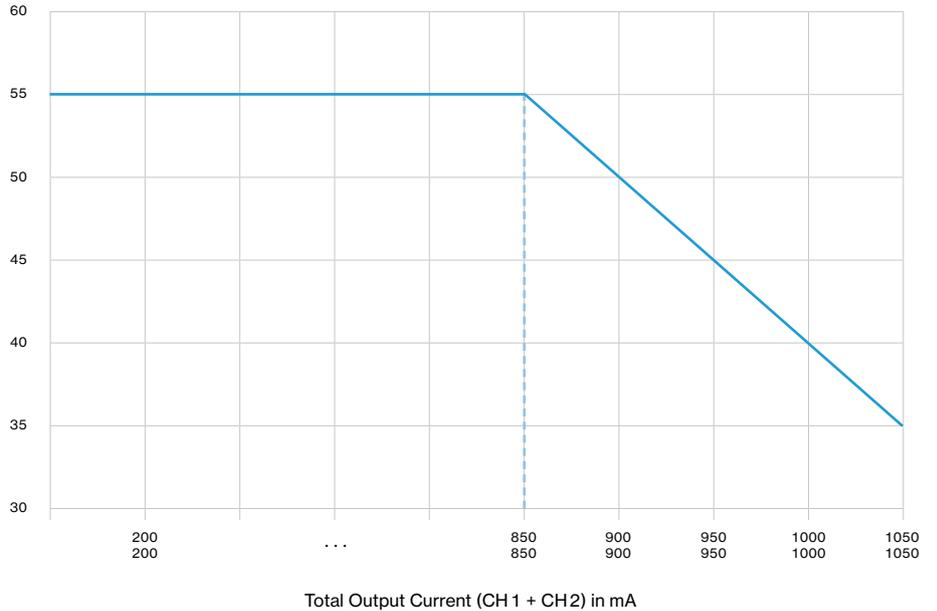
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Total Output Current vs. Ambient Temperature - Derating Curve

Ambient temperature T_A in °C



Derating curve only valid for balanced current output

Safety Symbols

	Protection class III with SELV supply.
	Caution, danger of electric shock!
	Use gloves.
	Not suitable for covering with thermal insulation material.
	Do not touch the LED!

	Do not dispose of in residual waste.
	The power cord must always be kept out of the reach of children.
	Switch off luminaire before connecting or disconnecting the LED.
	Recommended room temperature: 25°C
IP20	IP20 Covered