

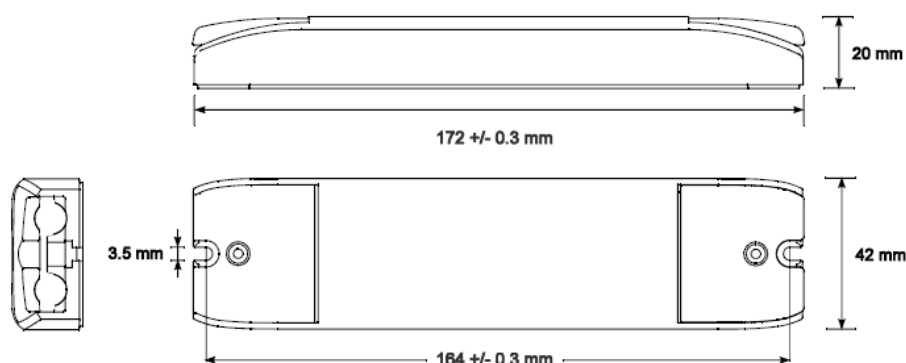
OPTOTRONIC® OTi

DALI 2x300 CS

Dimmer for constant current LED-Modules

Technical information
issue: September 2012
subject to change without notes

Design and dimensions (All dimensions in mm)



Technical data

Designation	OTi DALI 2x300 CS
For LED Modules	With respect to the output conditions: Constant current OLED modules, constant current LED modules
Supply input voltage range nom.	24 / 48 V DC
Supply input voltage range max	20 – 52 V DC
Dimming Interface	DALI with Touch DIM function, interface is protected against polarity reversal in cooperation with Optotronic Power Supplies SELV equivalent isolation of input and output vs. DALI interface
Dimming Mode	PWM
Operating Frequency	> 200 Hz
Dimming Range	0,1 – 100%
Max input current	0.8 A
Output load range	100 mA: 0 – 4 W @ 24 VDC / 0 - 9 W @ 48 VDC 300 mA: 0 – 13 W @ 24 VDC / 0 – 27 W @ 48 VDC
Power losses min (dimming rate = 1% - no load):	< 1W
Min. output voltage	10V
Power losses max (dimming rate = 95% - full load):	< 5W
Safety	EN 61347-2-13
Performance	EN 62384
Radio Interference Immunity	EN 55015 EN 61547
Temperature Range	-20 °C to +50 °C
Short Circuit Protection	YES
Overload Protection	Automatic shutoff, reversible
Overheating Protection	Automatic shutoff, reversible
Supply Input Wire Cross Section	0,75 mm ² to 1,5 mm ²
Supply input cable	NYM 3x1,5 mm ² / H03VV-F2x0,75 mm ²
Supply Input Connection	1 pair of screw terminals with covering and strain relief
Control Wire Cross Section	0,75 mm ² to 1,5 mm ²
Control cable	NYM 3x1,5 mm ² / H03VV-F2x0,75 mm ²
Control Connection	1 pair of screw terminals with covering and strain relief
Output Wire Cross Section	0,75 mm ² to 1,5 mm ²
Length of Output Wiring	Dependent on OPTOTRONIC Power Supply
Output Connection	2 pair of screw terminals with covering and strain relief
Dimensions	172 mm x 42 mm x 20 mm
Fixing Screws	Ø 3 mm or Ø 3.5 mm
Approvals	CE

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Select the correct power supply unit (PSU):

LED:

The PSU must be selected keeping in mind the maximum number of serial LEDs per channel in the application:

Number of LEDs in a series	3	4	5	6	7	8	9	10	11	12
Total Vf of LEDs serie (Typical)*	10,5	14,0	17,5	21,0	24,5	28,0	31,5	35,0	38,5	42,0
Recommended Power Supply Unit Voltage	24 V	24 V	24 V	24 V	48 V	48 V	48 V	48 V	48 V	48 V

*Calculation done with Typical Vf for single LED of 3,5 V

OLED:

The PSU must be selected keeping in mind the maximum number of serial OLEDs per channel in the application, including 1V voltage increase per OLED due to voltage aging over lifetime:

Number of LEDs in a series	2	3	4	5	6
Total Vf of LEDs serie (Typical)*	14	21	28	35	42
Recommended Power Supply Unit Voltage	24 V	24 V	48 V	48 V	48 V

*Calculation acc. to Typical Vf including aging for single OLED of $6V_{yp} + 1V_{age} = 7V$