

# OS - Power Supply 24V 1-4CH DALI & Switch Dim | MM - IP 20 User Manual



Item no.:  
NT-248-050 | NT-248-080

## 1. Product Description

For special applications with various requirements: 4 channels, numerous lighting solutions White, Tunable White, RGB and RGBW – thanks to their four output channels, the OPTOTRONIC® 4-channel LED drivers with 24 V constant voltage offer new application possibilities. Power supply and dimmer are in one housing. It can be controlled by means of the DALI signal as well as with standard push buttons (push, touch or switch dim function). The 4 output channels can be adjusted by jumpers. Suitable for emergency lighting according to EN 60598-2-22, IEC 61347-2-13 Annex J.

## 2. Specifications

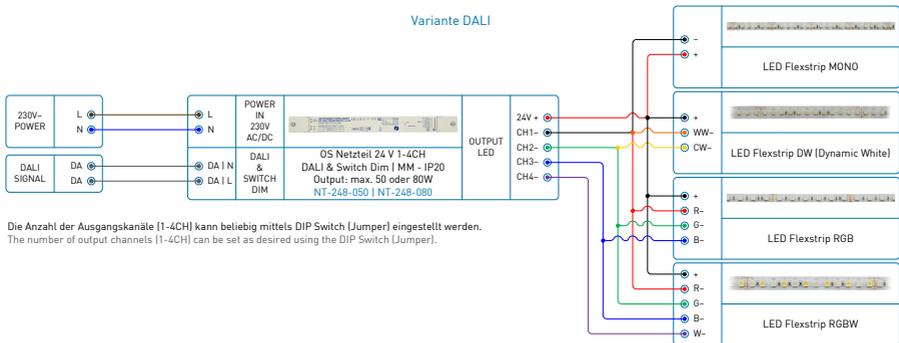
	NT-248-050	NT-248-080
Input Voltage	198-264VAC, 176-276VDC	198-264VAC, 176-276VDC
max. Output Power	1x2,08A (50W) - 24VDC	1x3,33A (80W) - 24VDC
Inrush Current	43A / 160ms	48A / 220ms
PWM Frequency	1000Hz	1000Hz
max. wire cross-section	Input 0,75mm <sup>2</sup> - 1,5mm <sup>2</sup>	Input 0,75mm <sup>2</sup> - 1,5mm <sup>2</sup>
	Output 0,20mm <sup>2</sup> - 1,5mm <sup>2</sup>	Output 0,20mm <sup>2</sup> - 1,5mm <sup>2</sup>
Dimensions (L x W x H)	345 x 32 x 22mm	345 x 32 x 22mm
weight	191g	191g

## 3. Description

1. dimmable 24V constant-voltage LED driver with 4 output channels
2. dimming range of 0,1-100%
3. dimming as well as switching the LEDs on and off by means of the DALI signal or by conventional button (push, touch or switch dim function).
4. The output power can be distributed by means of jumper over 4 channels
5. Suitable for emergency lighting according to EN 60598-2-22, IEC 61347-2-13 Annex J.
6. Ideal for the use of country lighting, corridors or handrails
7. small design (345x32x22mm) with strain relief

## 4. Wiring Diagram

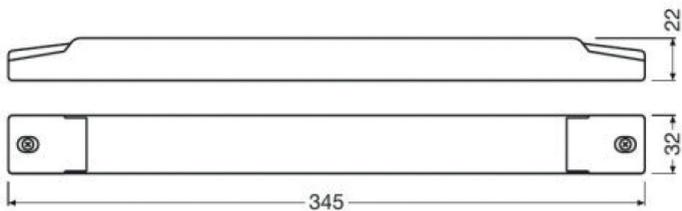
Variante DALI



Variante Switch/Touch/Push DIM



## 5. Dimensions



## 6. Control

### Control by DALI Control unit

The number of DALI addresses can be set by 2 dip switches on the secondary side. The DALI addresses are accepted after a power on cycle:

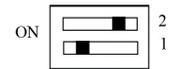
1 channel device (1 DALI address): 50W or 80W on channel 1



2-channel device (2 DALI addresses): 50W or 80W on channel 1 and 2



3-channel device (3 DALI addresses): 50W or 80W on channel 1, 2 and 3



4-channel device (4 DALI addresses): 50W or 80W on channel 1, 2, 3 and 4



The maximum output power of 50W or 80W is adjusted to the respective set output channels.

OTi DALI 50W or 80W with 4 DALI addresses:

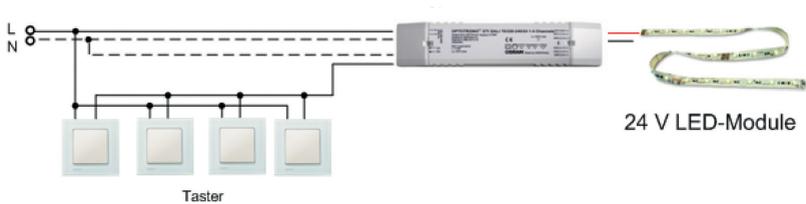


OTi DALI 50W or 80W with 1 DALI address:



## Control via Touch Dim

Simultaneous activation of the activated channels (depending on dip switch position):



## 7. Remark

### Input over voltage protection:

mains upto 350 VAC, for 2 hours maximum, will not destroy both the unit and the load, shut down of load might occur in this condition.

### Output short circuit:

live short circuit shall destroy the LED driver

### Output overload protection:

the unit automatically dims down to keep the output power below 50W or 80W.

### Over temperatur protection:

The unit is protected against temporary overheating by automatic dimming down when  $t_c$  exceeds. the protection is self-restoring.

### Touch current:

lower than 0.7 mA, according to EN 60598-1 ann. G and EN 61347-1 ann A