

OTi DALI 75/220-240/24 1-4 channel Electronically stabilized LED Power Supply

Technical Information

Edition:
May 2013
Subject to change



Technical data

Reference: for LED modules:	OTi DALI 75/220-240/24 1-4 channel LINEARlight Flex, COINlight, LINEARlight colormix and 24 V modules
Line voltage, nominal:	220 – 240 V _{AC}
Line current, nominal:	0.375 A @ 230 V/50 Hz
Line frequency:	50/60 Hz
Nominal output voltage:	24 V _{DC} +1V/-0,5V
Nominal module wattage:	0 - 75W, arbitrarily assigned to 1-4 output channels
Power factor	PF > 0,95
Power losses	8.5 W @ 230 V/50 Hz
Average efficiency	≥ 87 %
Full load efficiency:	90 %
Stand by power consumption	Typ. 0,5 W @ 230 V/50 Hz
Partial load:	0W – 75W
Perm. voltage fluctuations:	198 - 254 V _{AC}
DC voltage operation:	No
Inrush current: (Remark)	≤ 36 A $t_{width} = 270\mu s$ (measured at 50% I_{peak})
Max. no. of ECG @ circuit breakers 10 A (B type):	7
Max. no. of ECG @ circuit breakers 16 A (B type):	12
Control signal	DALI (1-4 DALI address, acc. IEC 62386-101 and IEC 62386-102) LED specific commands acc. IEC 62386-207 (device type 6) Touch DIM (broadcast to active channels)
Controls	DALI controls: e.g. DALI BASIC Touch DIM function: e.g. Touch DIM sensor
Dimming	PWM (244 Hz)
Dimming range	0-100%
Safety:	IEC 61347-1, IEC 61347-2-13
Performance:	IEC 62384
Radio interference:	EN 55015 (A1: 2007)
Harmonic content:	IEC 61000-3-2
Immunity:	IEC 61547
Temperature range:	-20 °C to +50 °C
Max. case temperature on T _c	75 °C
Surge capability	L-N: 2kV
ECG Life time: (Remark)	50.000h at $t_{case} = +70$ °C at t_c point and 10% failure rate

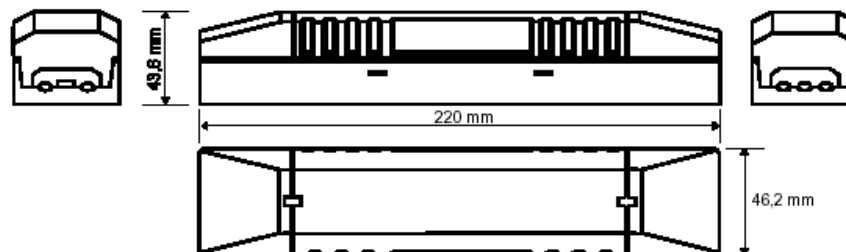
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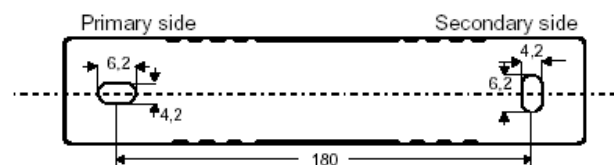
Galvanic insulation between primary and secondary side:	3,75 kV _{rms}
Non-load proof:	Yes
Short circuit protection:	Autom. shutoff, reversible
Overload protection:	Autom. shutoff, reversible
Overheating protection:	Autom. shutoff, reversible
Wiring:	
Wire cross section, primary:	2 x 0,5 - 2,5 mm ²
Main wiring	NYM 3x1,5 mm ² ; NYM 5*1,5 mm ² ; H05VV-F;
DALI, Touch DIM interface	A05VV-F
Secondary:	3 x 0,5 – 2,5 mm ²
Wire cross section, secondary:	H03VV-F; H05VV-F; A03VV-F; A05VV-F LINEARlight POWER Flex, LINEARlight DRAGON, COINlight OSTAR, etc.
Max. cable length	10m with 2,5 mm ² massive leads
Geometry (l x b x h):	220 mm x 47 mm x 44 mm
Approvals:	CE  
Marks	MM, F

Geometry



for ceiling apertures with diameter > 65mm

Measurements of mounting holes:



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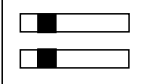



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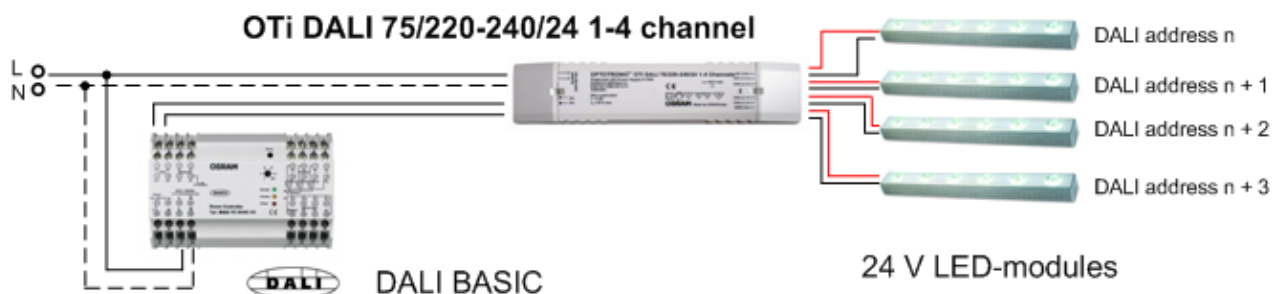
Wiring diagram

1) Control via DALI control e.g. DALI BASIC:

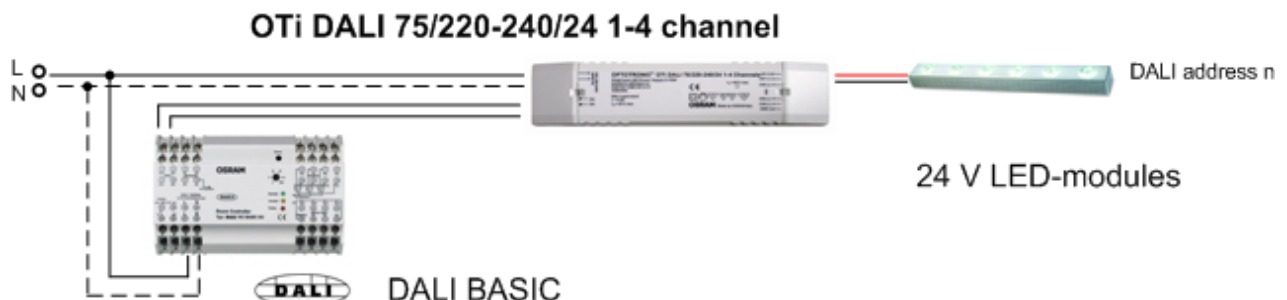
Number of DALI addresses can be set via 2 Dip switches at the secondary side of the power supply. The DALI address would be set after a power on cycle.

1-channel device (1 DALI address): 75 W at channel 1	ON		2 1
2- channel device (2 DALI addresses): 75 W split at channel 1 and 2	ON		2 1
3- channel device (3 DALI addresses): 75 W split at channel 1, 2 and 3	ON		2 1
4- channel device (4 DALI addresses): 75 W split at channel 1, 2, 3 and 4	ON		2 1

OTi DALI 75 with 4 DALI addresses



OTi DALI 75 with 1 DALI address



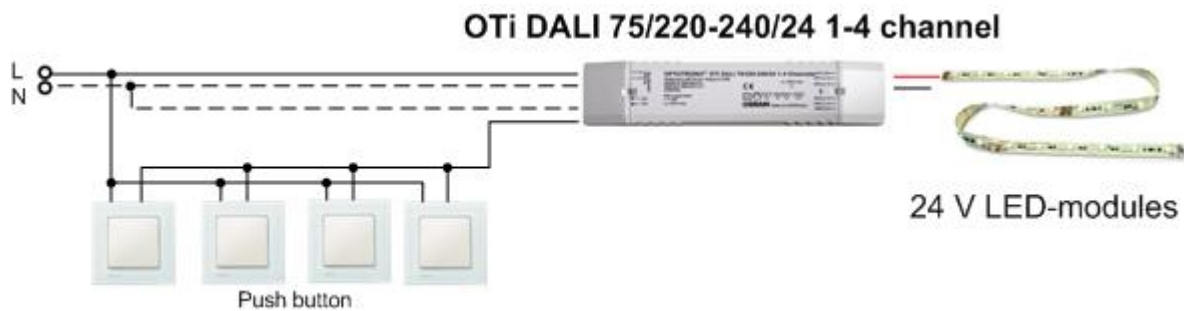
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2) Control via Touch DIM

Common control of all active channels (depending on DIP switch position, see 1)



Installations notes

The luminaire manufacturer is responsible for providing the required clearances and creepage distances and also for the protection against electrical shock, especially for the line and load wires.

Instruction sheet

Please consult the instruction sheet for further important information on dimming characteristic, wire stripping and wiring limitations in system installations. The instruction sheet is enclosed to the device or available upon request.