Light is OSRAM



Product data sheet: OPTOTRONIC® OTi DALI 40/220-240/1A0 NFC I

Compact constant current LED driver with DALI Interface

Wide operating area, 1...100% dimmable

Compact SELV DALI driver Prepared for the new DALI data standard



Super compact SELV DALI LED driver 40W Prepared for DALI standard (251, 252, 253) Locking / unlocking of luminaire monitoring data Fast programming / current set via NFC* Suitable for emergency lighting units Amplitude dimming 1...100% For independent installation Through-looping of mains and DALI



Spots and downlights
Office – Shop - Hospitality

Approbations & Certifications CE, ENEC, VDE-EMC, RCM, EL, CCC, EAC, BIS In preparation, if not already printed on the label

*For more information please refer to Tuner4TRONIC

Housing material: plastic, white.

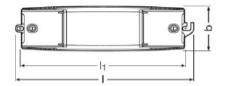








L	204 mm		
L1	186,5 mm		
В	50 mm		
Н	32 mm		





Product Features

- Output current range 500-1050mA
- NFC Interface
- Amplitude dimming 1-100%
- Low stand-by consumption <0.15 W</p>
- Suitable for emergency lighting
- Through-looping of mains and DALI

- New DiiA standards 251, 252, 253
- Low LF-ripple < 5%</p>
- 100'000 h lifetime at tc = 70°C
- tc max = 80 °C
- 2.5mm² screw terminals (PRI side)
- 5 years guarantee

Electrical Specifications

	Item	Value	Unit	Remarks
INPUT	Nominal voltage	220 – 240	V	
	Nominal frequency	0 / 50 / 60	Hz	
	AC voltage range	198 – 264	V	
	DC voltage range	176 – 276	V	DC or RAC
	Maximum voltage	320	Vac	2 h maximum, unit might not operate in this abnormal condition
	Nominal current	0.2	Α	, , , , , , , , , , , , , , , , , , ,
	Total Harmonic Distortion (THD)	< 10	%	Full load
	Power factor	≥ 0.95		Full load, 220 – 240 V, 50 Hz / see graphs
	Efficiency	91	%	Full load, 220 – 240 V, 50 Hz / see graphs
	Stand-by power	< 0.15	W	
	Protection class	II		
	Inrush current	20	A pk	th = 200 μs
	Max. units per circuit breaker	B16: 30 B10: 20		
	Nominal voltage range	20 – 50	V	
	Maximum voltage	< 60	Vdc	w/ Open Circuit
⊨	Nominal current range	500 – 1050	mA	Default current 700mA
≧	Current accuracy	+/- 5	%	
OUTPUT	Current ripple 100Hz	< 5	%	
O	Nominal power range	20 – 40	W	
	Maximum power	40	W	
	Galvanic isolation	SELV		
	Dimming control	yes		DALI
ρ	Dimming method	Analog dimming		
Dimming	Dimming range	1100	%	
<u>≅</u> . ∣		DALI 2	,,,	
Δ	Dimming Standard	DALI Z		
	Galvanic isolation	Basic		Mains to DALI
	Ambient temperature range t _a	-25+50	°C	
	Maximum case temperature t _c	80	°C	Measured on t _c point indicated of the product label
=	Max. case temp. in fault condition	110	°C	
	Storage temperature range	-25+85	°C	
₽	Relative humidity	5 85	%	Not condensing
Ϊ́	Surge transient protection	1 2	kV	L/N LN/PE acc to. EN 61547 Clause 5.7
\\ \	Environmental rating	Indoor		
ENVIRONMENT	IP rating	IP 20		
_	Mains switching cycles	> 150'000		
	Expected lifetime	50'000 100'000	h	t _c = 80°C, 0.2% / 1'000 h failure rate, 24h ON t _c = 70°C, 0.1% / 1'000 h failure rate, 24h ON

NFC compatible with MD SIG standard

Additional Features

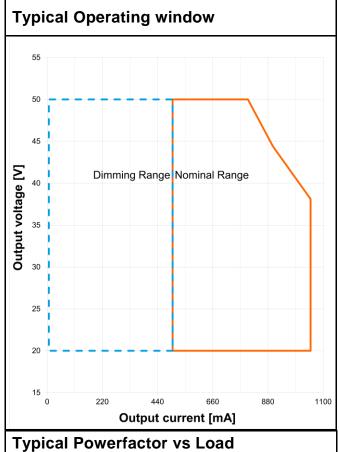
Driver Guard – Tuning Factor – Dim to Dark

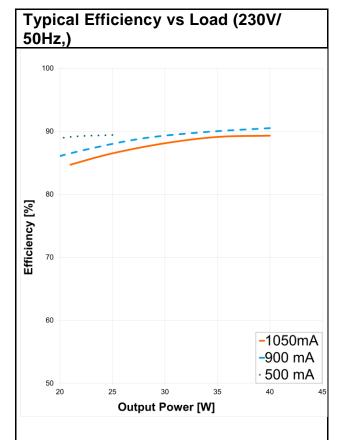
Luminaire Info (acc. Part 251), monitoring Data (acc. Part 252&253), Configuration Lock

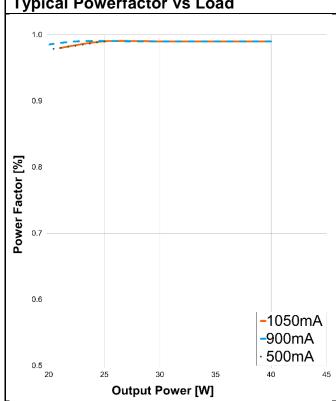
Protections

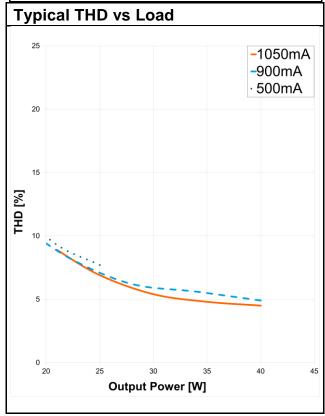
Overtemperature, Overload, No load, Short-circuit, Input overvoltage, Output overvoltage, Output undervoltage See remarks on page 4.

Version: preliminary - Nov 2019

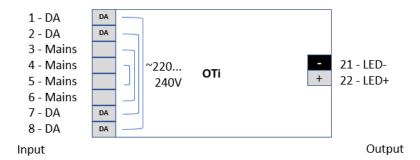








Wiring Diagram



Input wires

Load wires length: 2m max.

Wire cross-section: 0.75-2.5 mm²

Wire peeling length: 6 mm

Wire peeling length: 7-8 mm

Product type	EAN10
OTI DALI 40/220-240/1A0 NEC I	4062172115001

Remarks

- Input over voltage protection: mains up to 320 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 / under voltage protection: shut down of load happens if U_{rated} is below 20V. The unit automatically tries
 to switch on the load again every 4-5 sec for 0.1 sec the selected nominal current.
- Output overload protection: the unit automatically reduces the output current to keep the output power below the max limit.
- Output over voltage protection: the unit tries to stabilize the voltage by reducing the current as necessary down to 50%; if
 Urated still exceeds 50V shutdown will occur; the unit tries to automatically switch on the load again every 4-5 sec for 0.1 sec
 delivering the selected nominal output current.
- No load operation: the unit tries to automatically switch on the load again every 4-5 sec for 0.1 sec delivering the selected nominal output current; this operation mode is safe for the unit but is not recommended. Do not put a switch between load and unit
- Over temperature protection: the unit is protected against temporary overheating by automatic reduction of the output current (up to a complete power off) when tc > tc max. The protection is self-restoring.
- Touch current: lower than 0.7 mA, according to EN 60598-1 ann. G and EN 61347-1 annex A
- Emergency lighting: this LED power supply is suitable for emergency lighting fixtures acc. to EN 60598-2-22., with emergency output factor EOF_I=0.15 (default value, can be programmed up to EOF_I=1) and related duration time of 1h at least. Function in emergency is ensured up to t_a=80°C.

Standards

IEC 61347-1; IEC 61347-2-13; IEC 62384; EN 55015; IEC 62386; IEC 61000-3-2; IEC 61000-3-3 IEC 61547; CISPR 15

OSRAM GmbH

Head Office:



