### OTi DALI 40/220-240/1A0 NFC I (NEW)

OPTOTRONIC Intelligent – DALI NFC I | Compact constant current LED driver – Dimmable



#### Product family features

- Supply voltage: 220...240 V
- Line frequency: 0 Hz, 50...60 Hz
- Line voltage: 198...264 V
- According to EN 61347-1, 61347-2-13, 62384
- RI suppression: to EN 55015/CISPR 15
- Immunity according to EN 61547
- Type of protection: IP20
- Integrated cable clamp for luminaire and independent installation

#### Product family benefits

- Versatile DALI window driver due to flexible output characteristic
- Locking and unlocking of luminaire/driver data
- Easy and fast output current setting via NFC
- Very high efficiency
- High-quality dimming of 1...100 % by amplitude dimming
- DALI-2 certified incl. Parts 251, 252, 253



Specifications are subject to changes without notice. www.inventronicsglobal.com

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#### Areas of application

- Suitable for downlights, spotlights and LED panels
- Suitable for use in luminaires with flexible current setting
- Installation in emergency lighting systems according to IEC 61347-2-13, appendix J
- Suitable for indoor SELV installations
- Suitable for luminaires of protection classes I and II

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#### **Technical data**

#### **Electrical data**

Nominal input voltage	220240 V
Mains frequency	0,50,60 Hz
Input voltage AC	198264 V <sup>1)</sup>
Input voltage DC	176276 V
Total harmonic distortion	< 10 % <sup>2)</sup>
Power factor λ	0.84C0.98
Efficiency in full-load	91 % <sup>3)</sup>
Networked standby power	≤0.18 W <sup>3)</sup>
Inrush current	< 20 A <sup>4)</sup>
Max. ECG no. on circuit breaker 10 A (B)	20
Max. ECG no. on circuit breaker 16 A (B)	30
Surge capability (L-N)	1 kV
Surge capability (L/N-Ground)	2 kV
Protective conductor current	not relevant
Nominal output voltage	2050 V <sup>5)</sup>
U-OUT (working voltage)	60 V
Nominal output current	5001050 mA <sup>6)</sup>
Default output current	700 mA
Output current tolerance	±5 %
Output ripple current (100 Hz)	< 5 % <sup>7)</sup>
Output PSTLM	≤1
Output SVM	≤0.4
Nominal output power	40 W <sup>8)</sup>
Maximum output power	40 W
Galvanic isolation primary/secondary	SELV
Galvanic isolation DALI/mains	Basic
Galvanic isolation DALI/output	SELV

1) Permitted voltage range

2) At full load, 220...240 V, 50 Hz / see graphs

3) at 230 V, 50 Hz

4) t = 200  $\mu$ s (measured at 50 % I peak) 5) Maximum 60 V

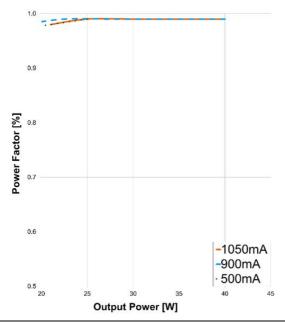
6) ±5%

7) Ripple average at 100 Hz

8) Partial load 20...40 W

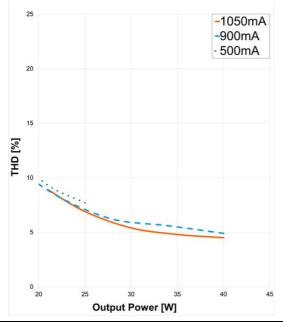
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Typical Power Factor v Load



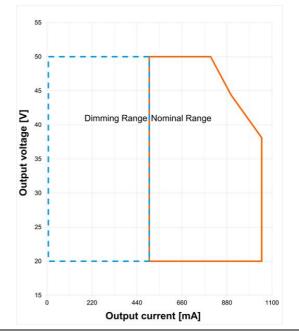
OTI QBM DALI 40 Typical Power Factor vs. Load

Typical THD v Load



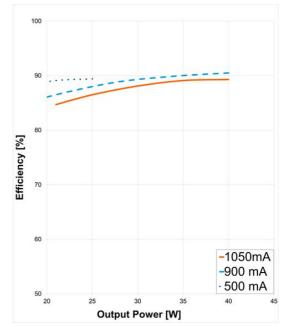
OTI QBM DALI 40 Typical THD Vs Load

#### Operating Window



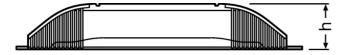
OTI QBM DALI 40 Operating Window

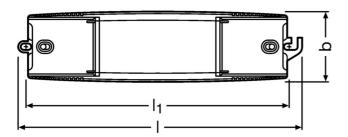
#### Typical Efficiency v Load 230 V 50 Hz



OTI QBM DALI 40 Typical Efficiency vs. Load

#### **Dimensions & weight**





Product weight	170.00 g	
Length	204.0 mm	
Width	50.0 mm	
Height	32.0 mm	
Mounting hole spacing, length	186.5 mm	
Mounting hole spacing, width	not relevant mm	
Cable cross-section, input side	0.22.5 mm <sup>2 1)</sup>	
Cable cross-section, output side	0.21.5 mm <sup>2</sup> <sup>1)</sup>	
Wire preparation length, input side	78 mm	
Wire preparation length, output side	8.09.0 mm	
Cable/wire length, output side	2000 mm	

1) Solid or flexible leads

#### **Colors & materials**

Casing material	Plastic
Product color	White

#### **Temperatures & operating conditions**

Ambient temperature range	-20+50 °C
Maximum temperature at tc test point	85 °C <sup>1)</sup>
Max.housing temperature in case of fault	110 °C
Temperature range at storage	-2585 °C
Permitted rel. humidity during operation	585 % <sup>2)</sup>

1) Maximum at the Tc-point

2) Maximum 56 days/year at 85 %

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#### Lifespan

ECG lifetime

50000 h / 100000 h <sup>1)</sup>

1) T<sub>c</sub> = 85°C, 0.2% / 1,000 h failure rate / T<sub>c</sub> = 75°C, 0.1% / 1,000 h failure rate

#### Additional product data

Encapsulated No			
Encapsulated	NO		
Capabilities			
-			
Programming interface	DALI, NFC		
Control interface	DALI-2		
Dimmable	Yes		
Dimming interface	DALI-2		
Dimming range	1100 %		
Dimming method	Amplitude Modulation		
DALI-2 Diagnostic Data	Yes <sup>1)</sup>		
DALI-2 Energy Data	Yes <sup>2)</sup>		
Constant lumen function	Programmable		
Max. cable length to lamp/LED module	2.0 m <sup>3)</sup>		
Suitable for fixtures with prot. class	1/11		
Suitable for emergency lighting	Yes		
Type of connection, input side	Screw terminal		
Type of connection, output side	Push terminal		
Suitable for through-wiring	Yes		
Number of channels	1		
Overheating protection	Automatic reversible		
Overload protection	Automatic reversible		
Short-circuit protection	Automatic reversible		
Intended for no-load operation	No		
No-load proof	Yes		

1) Acc. DALI part 253

2) Acc. DALI part 252

3) Output wires must be routed as close as possible to each other

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#### Programming

Programming device	DALI / NFC
Tuner4TRONIC	Yes
Tuner4TRONIC Field App	Yes
Box programming	Yes

#### Programmable features

DALI Settings	Yes
DALI-2 Luminaire Data	Yes <sup>1)</sup>
TouchDIM + Sensor	No
Corridor Functionality	No
Dim to Dark	Yes
Soft Switch Off	Yes
Tuning Factor	Yes
Configuration Lock	Yes
Driver Guard	Yes
Emergency Mode	Yes

1) Acc. DALI part 251

#### Certificates & standards

Approval marks – approval	CE / UKCA / EL / DALI-2 / EAC				
Standards	Acc. to EN 61347-1 / Acc. to EN 61347-2-13 / Acc. to EN 55015 / Acc. to EN 61547 / Acc. to EN 61000-3-2 / Acc. to EN 62384 / Acc. to EN 62386 / Acc. to IEC 62386-101:Ed2 / Acc. to IEC 62386-102:Ed2 / Acc. to IEC 62386-207:Ed1				
Type of protection	IP20				

#### Logistical data

Commodity code	85044083900
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#### **Environmental information**

Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACh)				
Date of Declaration 26-09-2024				
Primary Article Identifier	4062172115001			
Declaration No. in SCIP database	In work			
SCIP_STATUS	In work			
SCIP_ID				

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#### Ecodesign regulation information:

Intended for use with LED modules.

The forward voltage of the LED light source shall be within the defined operating window of the control gear in all operating conditions including dimming if applicable.

Separate control gear and light sources must be disposed of at certified disposal companies in accordance with Directive 2012/19/EU (WEEE) in the EU and with Waste Electrical and Electronic Equipment (WEEE) Regulations 2013 in the UK. For this purpose, collection points for recycling centres and take-back systems (CRSO) are available from retailers or private disposal companies, which accept separate control gear and light sources free of charge. In this way, raw materials are conserved and materials are recycled.

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#### **Download Data**

File		
Certificates	PDF	►OT ENEC 40038447 270224
CAD data 3-dim	Compressed	►PTi 20 I CAD3PDF
CAD data 3-dim	Compressed	►PTi 20 I IGS
CAD data 3-dim	Compressed	►PTI 20 I STEP
CAD data PDF	PDF	►PTi 20 I CAD2PDF
Mandatory Publications	PDF	►OTI DALI NFC S I CE 4169161 110222
Mandatory Publications	PDF	► OTI DALI NFC S I UK DoC 4281113 110222
User instruction	PDF	OPTOTRONIC LED Power Supply

#### Logistical Data

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4062172115001	OTi DALI 40/220-240/1A0 NFC I	Shipping carton box 20 Pieces	428 x 173 x 121 mm	8.96 dm³	183.35 g

The mentioned product code describes the smallest quantity unit which can be ordered. One shipping unit can contain one or more single products. When placing an order, for the quantity please enter single or multiples of a shipping unit

#### Data privacy

This OSRAM driver can be configured using the Tuner4TRONIC software. This requires registering on www.myosram.com and downloading theTuner4TRONIC software from the Internet. The Tuner4TRONIC software enables users to access and view the operational data of a luminaire or driver via the corresponding programming interfaces. A password key (Config Lock) must be set up in the driver via the Tuner4TRONIC software in order to control which users can access and view operational data. Follow the instructions for password setup. To grant an external person or company rights to access or view operational data, you can assign password keys. In this case, however, you are responsible for ensuring that the third party concerned takes notice of the information described here.

However, OSRAM can read out operating data from devices for maintenance and service purposes even when a password key has been assigned. In individual cases, OSRAM will also use its access rights in order to optimize or improve driver hardware and driver functions. In accordance with data privacy principles, any user of operating data (luminaire manufacturers, third parties with access rights) must ensure that personal data (e.g. name, address, location IDs) are only merged with the prior written consent of the person (end user) concerned. The respective user of the operating data is responsible for providing evidence of consent.

#### Accessories Optional

Product description	Accessory name	Accessory code
OTi DALI 40/220-240/1A0 NFC I	PRH101 -USB	►6977078996938
OTi DALI 40/220-240/1A0 NFC I	CPR30 -USB	▶6977078996945

#### Disclaimer

Subject to change without notice. Errors and omission excepted. Always make sure to use the most recent release.