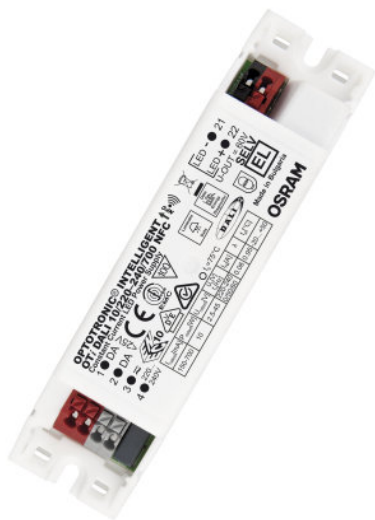


OPTOTRONIC Intelligent – DALI LT2 NFC

Compact constant current LED driver – Dimmable



Areas of application

- Installation in emergency lighting systems according to IEC 61347-2-13, appendix J
- Suitable for use in luminaires with flexible current setting
- Suitable for indoor SELV installations
- Suitable for luminaires of protection classes I and II
- Suitable for downlights, spotlights and LED panels
- Installation via Cable Clamp Kit possible (depending on version of product)

Product family benefits

- Versatile DALI window driver due to flexible output characteristic
- Very high efficiency
- Protection of the system thanks to thermal management and Smart Control
- High-quality dimming of 1...100 % by amplitude dimming
- Easy and fast output current setting via NFC

Versatile scope of application due to OSRAM DALI Technology:

- Suitable for emergency Installations (acc. to EN 60598-2-22 and IEC 61347-2-13, appendix J) thanks to DC detection (0 Hz, pulsating DC), on/off switchable
- Feedback of power consumption and operating hours (Fit for SMART GRID)
- Suitable for buildings according to EPBD/BREEAM/LEED due to automatic Constant Lumen Output setting



Product family datasheet

Product family features

- Supply voltage: 220...240 V
- Line frequency: 0 Hz | 50 Hz | 60 Hz
- Line voltage: 198...264 V
- According to EN 61347-1, 61347-2-13, 62384
- RI suppression: to EN 55015/CISPR 15
- Line harmonics according to EN 61000-3-2
- Immunity according to EN 61547
- Lifetime: up to 100,000 h
- Type of protection: IP20

Product family datasheet

Technical data

Electrical data

Product description	Nominal input voltage	Mains frequency	Input voltage AC	Input voltage DC	Total harmonic distortion	Power factor λ
OTi DALI 10/220...240/700 NFC	220...240 V	0/50/60 Hz	198...264 V ¹⁾	176...276 V	15 % ²⁾	> 098/> 094 ³⁾
OTi DALI 25/220...240/700 LT2 NFC	220...240 V	0/50/60 Hz	198...264 V ¹⁾	176...276 V	< 20 % ¹⁰⁾	> 095
OTi DALI 50/220...240/1A4 LT2 FAN NFC	220...240 V	0/50/60 Hz	198...264 V ¹⁾	176...276 V	< 10 % ¹⁰⁾	> 095

Product description	Efficiency in full-load	Device power loss	Inrush current	Max. ECG no. on circuit breaker 10 A (B)	Max. ECG no. on circuit breaker 16 A (B)
OTi DALI 10/220...240/700 NFC	82 % ⁴⁾	3.5 W	< 5 A ⁵⁾	80	130
OTi DALI 25/220...240/700 LT2 NFC	88 % ⁴⁾	4.5 W	< 20 A ¹¹⁾	50	80
OTi DALI 50/220...240/1A4 LT2 FAN NFC	91 % ⁴⁾	7.5 W	30 A ¹⁴⁾	12	20

Product description	Max. ECG no. on circuit breaker 25 A (B)	Surge capability (L/N-Ground)	Surge capability (L-N)	Nominal output voltage	U-OUT (working voltage)
OTi DALI 10/220...240/700 NFC	-	2 kV	1 kV	2.5...45 V ⁶⁾	60 V
OTi DALI 25/220...240/700 LT2 NFC	-	2 kV	1 kV	12...54 V ⁶⁾	60 V
OTi DALI 50/220...240/1A4 LT2 FAN NFC	-	2 kV ¹⁵⁾	1 kV	15...54 V ⁶⁾	60 V

Product description	Nominal output current	Default output current	Output current tolerance	Output ripple current (100 Hz)
OTi DALI 10/220...240/700 NFC	150...700 mA ⁷⁾	350 mA	±3 %	< 2 % ⁸⁾
OTi DALI 25/220...240/700 LT2 NFC	180...700 mA ⁷⁾	500 mA ¹²⁾	±3 %	1 % ⁸⁾
OTi DALI 50/220...240/1A4 LT2 FAN NFC	600...1400 mA ¹⁶⁾	1050 mA ¹²⁾	±3 %	2 % ⁸⁾

Product description	Output PSTLM	Output SVM	Nominal output power	Maximum output power
OTi DALI 10/220...240/700 NFC	≤1	≤0.4	10 W ⁹⁾	10 W
OTi DALI 25/220...240/700 LT2 NFC	≤1	≤0.4	27 W ¹³⁾	27 W
OTi DALI 50/220...240/1A4 LT2 FAN NFC	≤1	≤0.4	55 W ¹⁷⁾	55 W

Product description	Galvanic isolation DALI/output	Galvanic isolation DALI/mains	Power loss in stand-by mode	Networked standby power
OTi DALI 10/220...240/700 NFC	SELV	Basic	≤0.15 W	≤0.15 W ⁴⁾

Product family datasheet

Product description	Galvanic isolation DALI/output	Galvanic isolation DALI/mains	Power loss in stand-by mode	Networked standby power
OTi DALI 25/220...240/700 LT2 NFC	SELV	Basic	0.1 W	≤0.10 W ⁴⁾
OTi DALI 50/220...240/1A4 LT2 FAN NFC	SELV	Basic	0.15 W	0.15 W ⁴⁾

Product description	Current set	Galvanic isolation primary/secondary	Max. ECG no. on circuit breaker 10 A (C)	Max. ECG no. on circuit breaker 16 A (C)
OTi DALI 10/220...240/700 NFC	DALI / NFC	SELV		
OTi DALI 25/220...240/700 LT2 NFC	DALI / LEDset2 / NFC	SELV	-	-
OTi DALI 50/220...240/1A4 LT2 FAN NFC	DALI / LEDset2 / NFC	SELV	-	-

Product description	Output current LEDset open	Output current LEDset shorted
OTi DALI 10/220...240/700 NFC		
OTi DALI 25/220...240/700 LT2 NFC	90 mA	500 mA
OTi DALI 50/220...240/1A4 LT2 FAN NFC	300 mA	1050 mA

1) Permitted voltage range

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

3) At Pmax, 220...240 V, 50 Hz/At 50% Pmax, 220...240 V, 50 Hz

4) at 230 V, 50 Hz

5) $t_{width} = 100 \mu s$ (measured at 50 % I_{peak})

6) Maximum 60 V

7) ±3%

8) Ripple average at 100 Hz

9) Partial load 1.5...10 W

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

11) $t_{width} = 50 \mu s$ (measured at 50 % I_{peak})

12) LEDset deactivated

13) Partial load 7...27 W

14) $t_{width} = 200 \mu s$ (measured at 50 % I_{peak})

15) Functional Earth

16) ±5%

17) Partial load 22...55 W

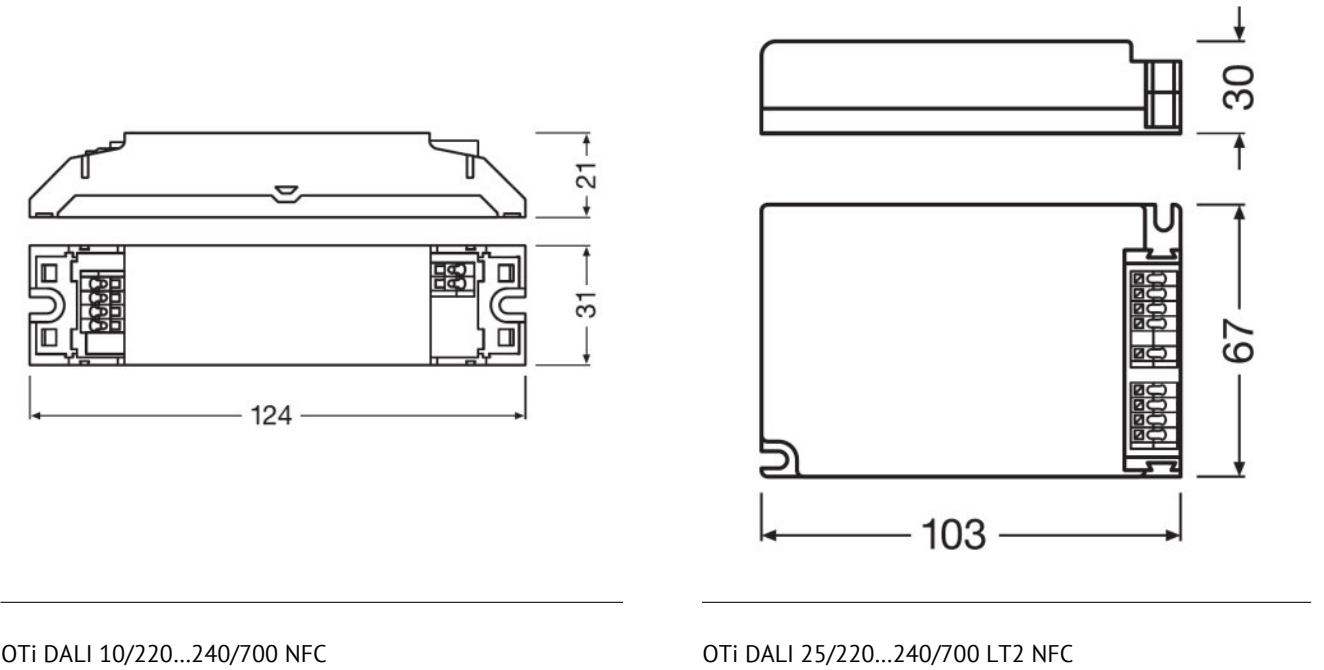
Dimensions & weight

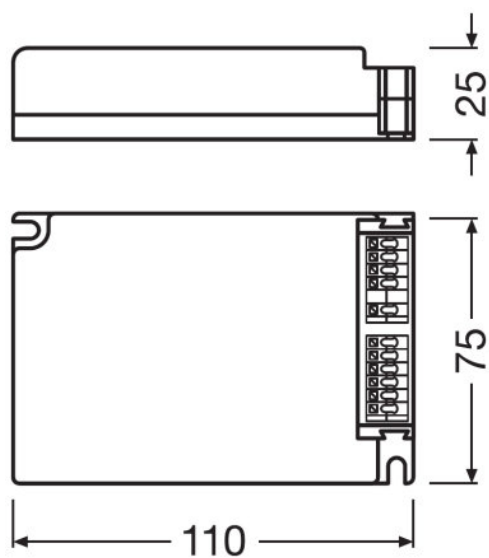
Product description	Mounting hole spacing, length	Product weight	Cable cross-section, input side	Cable cross-section, output side	Wire preparation length, input side
OTi DALI 10/220...240/700 NFC	115.0 mm	5800 g	0.2...1.5 mm ^{2 1)}	0.2...1.5 mm ^{2 1)}	8.0...9.1 mm
OTi DALI 25/220...240/700 LT2 NFC	94.0 mm	14900 g	0.2...1.5 mm ^{2 1)}	0.2...1.5 mm ^{2 1)}	8.0...9.0 mm
OTi DALI 50/220...240/1A4 LT2 FAN NFC	99.0 mm	18000 g	0.2...1.5 mm ^{2 1)}	0.2...1.5 mm ^{2 1)}	8.0...9.0 mm

Product description	Wire preparation length, output side	Height	Width	Length	Mounting hole spacing, width
OTi DALI 10/220...240/700 NFC	8.0...9.1 mm	210 mm	310 mm	1240 mm	
OTi DALI 25/220...240/700 LT2 NFC	8.0...9.0 mm	295 mm	670 mm	1030 mm	58.0 mm
OTi DALI 50/220...240/1A4 LT2 FAN NFC	8.0...9.0 mm	250 mm	750 mm	1100 mm	64.0 mm

1) Solid or flexible leads

Product line drawing





OTi DALI 50/220...240/1A4 LT2 FAN NFC

Colors & materials

Product description	Casing material
OTi DALI 10/220...240/700 NFC	Plastic
OTi DALI 25/220...240/700 LT2 NFC	Plastic
OTi DALI 50/220...240/1A4 LT2 FAN NFC	Plastic

Temperatures & operating conditions

Product description	Ambient temperature range	Maximum temperature at tc test point	Max.housing temperature in case of fault	Temperature range at storage
OTi DALI 10/220...240/700 NFC	-20...+50 °C	75 °C ¹⁾	110 °C	-40...+85 °C
OTi DALI 25/220...240/700 LT2 NFC	-20...+50 °C	75 °C ¹⁾	110 °C	-40...+85 °C
OTi DALI 50/220...240/1A4 LT2 FAN NFC	-20...+50 °C	80 °C ¹⁾	110 °C	-40...+85 °C

Product description	Permitted rel. humidity during operation
OTi DALI 10/220...240/700 NFC	5...85 % ²⁾
OTi DALI 25/220...240/700 LT2 NFC	5...85 % ²⁾
OTi DALI 50/220...240/1A4 LT2 FAN NFC	5...85 % ²⁾

¹⁾ Maximum at the Tc-point

²⁾ Maximum 56 days/year at 85 %

Product family datasheet

Lifespan

Product description	ECG lifetime
OTi DALI 10/220...240/700 NFC	50000 / 100000 h ¹⁾
OTi DALI 25/220...240/700 LT2 NFC	50000 / 100000 h ¹⁾
OTi DALI 50/220...240/1A4 LT2 FAN NFC	50000 / 100000 h ²⁾

¹⁾ T_c = 75°C, 0.2% / 1,000 h failure rate / T_c = 65°C, 0.1% / 1,000 h failure rate

²⁾ T_c = 80°C, 0.2% / 1,000 h failure rate / T_c = 70°C, 0.1% / 1,000 h failure rate

Additional product data

Product description	Successor EAN
OTi DALI 10/220...240/700 NFC	4062172143899
OTi DALI 25/220...240/700 LT2 NFC	4062172017909
OTi DALI 50/220...240/1A4 LT2 FAN NFC	4062172061889

Capabilities

Product description	Dimmable	Dimming interface	Dimming range	Dimming method
OTi DALI 10/220...240/700 NFC	Yes	DALI-2	1...100 %	Amplitude Modulation
OTi DALI 25/220...240/700 LT2 NFC	Yes	DALI-2 / Touch DIM / Touch DIM Sensor	1...100 %	Amplitude Modulation
OTi DALI 50/220...240/1A4 LT2 FAN NFC	Yes	DALI-2 / Touch DIM / Touch DIM Sensor	1...100 %	Amplitude Modulation

Product description	Overheating protection	Overload protection	Short-circuit protection	No-load proof
OTi DALI 10/220...240/700 NFC	Automatic reversible	Automatic reversible	Automatic reversible	Yes
OTi DALI 25/220...240/700 LT2 NFC	Automatic reversible	Automatic reversible	Automatic reversible	Yes
OTi DALI 50/220...240/1A4 LT2 FAN NFC	Automatic reversible	Automatic reversible	Automatic reversible	Yes

Product description	Intended for no-load operation	Max. cable length to lamp/LED module	Suitable for fixtures with prot. class	Type of connection, input side
OTi DALI 10/220...240/700 NFC	No	2.0 m ¹⁾	I / II	Push terminal
OTi DALI 25/220...240/700 LT2 NFC	No	2.0 m ¹⁾	I / II	Push terminal
OTi DALI 50/220...240/1A4 LT2 FAN NFC	No	2.0 m ¹⁾	I / II	Push terminal

Product description	Type of connection, output side	Programming interface	Constant lumen function	Suitable for emergency lighting
OTi DALI 10/220...240/700 NFC	Push terminal	DALI, NFC	Programmable	Yes
OTi DALI 25/220...240/700 LT2 NFC	Push terminal	DALI, NFC, LEDset	Programmable	Yes

Product family datasheet

Product description	Type of connection, output side	Programming interface	Constant lumen function	Suitable for emergency lighting
OTi DALI 50/220...240/1A4 LT2 FAN NFC	Push terminal	DALI, NFC, LEDset	Programmable	Yes

Product description	Number of channels
OTi DALI 10/220...240/700 NFC	1
OTi DALI 25/220...240/700 LT2 NFC	1
OTi DALI 50/220...240/1A4 LT2 FAN NFC	1

¹⁾ Output wires must be routed as close as possible to each other

Programming

Product description	Tuner4TRONIC	Tuner4TRONIC Field App	Programming device
OTi DALI 10/220...240/700 NFC	Yes	Yes	DALI / NFC
OTi DALI 25/220...240/700 LT2 NFC	Yes	Yes	DALI / LEDset / NFC
OTi DALI 50/220...240/1A4 LT2 FAN NFC	Yes	Yes	DALI / LEDset / NFC

Programmable features

Product description	Constant Lumen	Lamp Operating Time	Driver Guard
OTi DALI 10/220...240/700 NFC	Yes	Yes	Yes
OTi DALI 25/220...240/700 LT2 NFC	Yes	Yes	Yes
OTi DALI 50/220...240/1A4 LT2 FAN NFC	Yes	Yes	Yes

Product description	DALI Settings	Emergency Mode	Configuration Lock
OTi DALI 10/220...240/700 NFC	Yes	Yes	Yes
OTi DALI 25/220...240/700 LT2 NFC	Yes	Yes	Yes
OTi DALI 50/220...240/1A4 LT2 FAN NFC	Yes	Yes	Yes

Product description	Soft Switch Off	Dim to Dark	TouchDIM + Sensor
OTi DALI 10/220...240/700 NFC	Yes	Yes	No
OTi DALI 25/220...240/700 LT2 NFC	Yes	Yes	Yes
OTi DALI 50/220...240/1A4 LT2 FAN NFC	Yes	Yes	Yes

Product description	Corridor Functionality	OEM Key
OTi DALI 10/220...240/700 NFC	No	No
OTi DALI 25/220...240/700 LT2 NFC	Yes	No
OTi DALI 50/220...240/1A4 LT2 FAN NFC	Yes	No

Certificates & standards

Product description	Approval marks – approval	Standards	Protection class	Type of protection
OTi DALI 10/220...240/700 NFC	ENEC 10 / VDE / EMC / EL / CE / DALI-2 / CCC	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	II	IP20
OTi DALI 25/220...240/700 LT2 NFC	ENEC 10 / VDE / EMC / EL / CE / DALI-2 / CCC	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	II	IP20
OTi DALI 50/220...240/1A4 LT2 FAN NFC	ENEC 10 / VDE / EMC / EL / CE / DALI-2 / CCC	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	II	IP20

Logistical data

Product description	Commodity code
OTi DALI 10/220...240/700 NFC	850440829000
OTi DALI 25/220...240/700 LT2 NFC	850440829000
OTi DALI 50/220...240/1A4 LT2 FAN NFC	850440829000

Environmental information

Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACH)

Product description	Date of Declaration	Primary Article Identifier	Candidate List Substance 1
OTi DALI 10/220...240/700 NFC	18-10-2022	4052899562639	Lead
OTi DALI 25/220...240/700 LT2 NFC	18-10-2022	4052899548213	Lead
OTi DALI 50/220...240/1A4 LT2 FAN NFC	18-10-2022	4052899548251	Lead

Product family datasheet

Product description	CAS No. of substance 1	Safe Use Instruction	Declaration No. in SCIP database
OTi DALI 10/220...240/700 NFC	7439-92-1	The identification of the Candidate List substance is sufficient to allow safe use of the article.	76aba481-9f21-42ba-9d2e-a3a03dbf7947
OTi DALI 25/220...240/700 LT2 NFC	7439-92-1	The identification of the Candidate List substance is sufficient to allow safe use of the article.	00768af0-f15e-4f5c-8d09-aa962bd1a660
OTi DALI 50/220...240/1A4 LT2 FAN NFC	7439-92-1	The identification of the Candidate List substance is sufficient to allow safe use of the article.	1008c8e7-dd4d-416f-9ece-b748e84be23f

Application advice

For more detailed application information and graphics please see product datasheet.

Sales and Technical Support

Sales and Technical Support www.osram.com

Download Data

File	
	User instruction OPTOTRONIC LED Power Supply
	User instruction OPTOTRONIC LED Power Supply
	Certificates OT EMC 40050085 200220
	Certificates OTi DALI 10 NFC EATON AM29184 210720
	Certificates OTi DALI 10 NFC INOTEC AM29184 210720
	Certificates OT ENEC 40038447 260623
	Certificates OT EMC 40044675 031022
	Declarations of conformity OTi DALI NFC UK DoC 4291512 240221
	Declarations of conformity OTi DALI NFC CE 3758701 161023

Product family datasheet

	CAD data OTI DALI 10 NFC IGS 140120
	CAD data OTI DALI 10 NFC STEP 140120
	CAD Data 2-dim OTI DALI 10 NFC CAD2PDF 140120
	CAD data 3-dim OTI DALI 10 NFC CAD3PDF 140120
	User instruction OPTOTRONIC LED Power Supply
	Declarations of conformity EATON(CEAG) Conformity declaration AM12229_OTi_DALI_25_220-240_700_LT2_NFC
	Declarations of conformity INOTEC Conformity declaration AM12229_OTi_DALI_25_220-240_700_LT2_NFC
	CAD data OTI DALI LT2 NFC IGS 130120
	CAD Data 2-dim OTI DALI LT2 NFC CAD2PDF 130120
	CAD data 3-dim OTI DALI LT2 NFC CAD3PDF 130120
	CAD data PDF OTI DALI LT2 NFC STEP 130120
	User instruction OPTOTRONIC LED Power Supply
	Declarations of conformity EATON(CEAG) Conformity declaration AM12413_OTi_DALI_50_220-240_1A4_LT2_FAN_NFC
	Declarations of conformity INOTEC Conformity declaration AM12413_OTi_DALI_50_220-240_1A4_LT2_FAN_NFC

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.

Product family datasheet

Logistical Data

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4052899562639	OTi DALI 10/220...240/700 NFC	Shipping carton box 20	165 mm x 258 mm x 71 mm	3.02 dm ³	1416.00 g
4052899548213	OTi DALI 25/220...240/700 LT2 NFC	Shipping carton box 20	345 mm x 216 mm x 86 mm	6.41 dm ³	3211.00 g
4052899548251	OTi DALI 50/220...240/1A4 LT2 FAN NFC	Shipping carton box 20	389 mm x 234 mm x 72 mm	6.55 dm ³	4118.00 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.

Accessories Optional

Product description	Accessory name	Accessory code
OTi DALI 10/220...240/700 NFC	OT CABLE CLAMP N-STYLE	▶ 4062172046732
OTi DALI 25/220...240/700 LT2 NFC	OT CABLE CLAMP B-STYLE	▶ 4052899077881
OTi DALI 25/220...240/700 LT2 NFC	OT CABLE CLAMP B-STYLE TL	▶ 4052899948051
OTi DALI 50/220...240/1A4 LT2 FAN NFC	OT CABLE CLAMP A-STYLE	▶ 4052899089570
OTi DALI 50/220...240/1A4 LT2 FAN NFC	OT CABLE CLAMP A-STYLE TL	▶ 4052899325982

Data privacy

This OSRAM driver can be configured using the Tuner4TRONIC software. This requires registering on www.myosram.com and downloading the Tuner4TRONIC 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.

Disclaimer

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