

OPTOTRONIC Intelligent – DALI LT2

Compact constant current LED driver – Dimmable



Product family features

- Supply voltage: 220...240 V
- Line frequency: 0 Hz | 50 Hz | 60 Hz
- Line voltage: 198...264 V
- Safety according to EN 61347-1, 61347-2-3, 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
- Independent connection via through-looping (except OTi DALI 15)

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

Versatile scope of application due to OSRAM DALI Technology:

- Easy to use in corridors and restrooms because of three-level Corridor function
- Touch DIM application: easy to control via pushbutton or sensor
- Energy efficient Touch DIM operation due to automatic switch-off at sufficient residual light
- 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



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 (DALI, CLO, LEDset)
- 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 datasheet

Technical data

Product description	Electrical data					
	Nominal input voltage	Mains frequency	Input voltage AC	Input voltage DC	Total harmonic distortion	Power factor λ
OTi DALI 15/220...240/1A0 LT2	220...240 V	0/50/60 Hz	198...264 V ¹⁾	176...276 V	< 10 % ²⁾	0.95
OTi DALI 25/220...240/700 LT2	220...240 V	0/50/60 Hz	198...264 V ¹⁾	176...276 V	< 20 % ²⁾	> 0.95
OTi DALI 35/220...240/1A0 LT2	220...240 V	0/50/60 Hz	198...264 V ¹⁾	176...276 V	< 20 %	> 0.95
OTi DALI 50/220...240/1A4 LT2 FAN	220...240 V	0/50/60 Hz	198...264 V ¹⁾	176...276 V	< 10 % ²⁾	> 0.95

Product description	ECG efficiency	Device power loss	Power loss in stand-by mode	Inrush current	Max. ECG no. on circuit breaker 10 A (B)	Max. ECG no. on circuit breaker 16 A (B)	Max. ECG no. on circuit breaker 25 A (B)
OTi DALI 15/220...240/1A0 LT2	88 % ³⁾	2.4 W	≤0.27 W	5 A ⁴⁾	82	130	-
OTi DALI 25/220...240/700 LT2	88 % ³⁾	4.5 W	<0.1 W	< 20 A ¹⁸⁾	50	80	-
OTi DALI 35/220...240/1A0 LT2	89 % ³⁾	5.7 W	<0.1 W	< 20 A ¹⁸⁾	35	55	-
OTi DALI 50/220...240/1A4 LT2 FAN	91 % ²²⁾	7.5 W	<0.15 W	30 A ²³⁾	12	20	-

Product description	Surge capability (L/N-Ground)	Surge capability (L-N)	Nominal output voltage	U-OUT (working voltage)
OTi DALI 15/220...240/1A0 LT2	2 kV	1 kV	7.5...54 V ⁵⁾	60 V
OTi DALI 25/220...240/700 LT2	2 kV	1 kV	12...54 V ⁵⁾	60 V
OTi DALI 35/220...240/1A0 LT2	2 kV	1 kV	15...54 V ⁵⁾	60 V
OTi DALI 50/220...240/1A4 LT2 FAN	2 kV ²⁴⁾	1 kV	15...54 V ⁵⁾	60 V

Product description	Nominal output current	Output current LEDset open	Output current LEDset shorted	Default output current	Output current tolerance
OTi DALI 15/220...240/1A0 LT2	150...1050 mA ⁶⁾	75 mA	350 mA	350 mA ⁷⁾	±3 %
OTi DALI 25/220...240/700 LT2	180...700 mA ¹⁹⁾	90 mA	500 mA	500 mA ⁷⁾	±3 %
OTi DALI 35/220...240/1A0 LT2	350...1050 mA ¹⁹⁾	175 mA	700 mA	700 mA ⁷⁾	±3 %
OTi DALI 50/220...240/1A4 LT2 FAN	600...1400 mA ⁶⁾	300 mA	1050 mA	1050 mA ⁷⁾	±3 %

Product description	Output ripple current (100 Hz)	Output PSTLM	Output SVM	Nominal output power
OTi DALI 15/220...240/1A0 LT2	< 2 % ⁸⁾	≤1	≤0.4	18 W ⁹⁾
OTi DALI 25/220...240/700 LT2	< 1 % ⁸⁾	≤1	≤0.4	27 W ²⁰⁾
OTi DALI 35/220...240/1A0 LT2	< 2 % ⁸⁾	≤1	≤0.4	35 W ²¹⁾

Product family datasheet

Product description	Output ripple current (100 Hz)	Output PSTLM	Output SVM	Nominal output power
OTi DALI 50/220...240/1A4 LT2 FAN	< 2 % ⁸⁾	≤1	≤0.4	55 W ²⁵⁾

Product description	Galvanic isolation	Dimensions & weight			
		Product weight	Cable cross-section, input side	Cable cross-section, output side	Wire preparation length, input side
OTi DALI 15/220...240/1A0 LT2	SELV	100.00 g	0.2...1.5 mm ² ¹⁰⁾	0.2...1.5 mm ² ¹⁰⁾	8.0...9.0 mm
OTi DALI 25/220...240/700 LT2	SELV	149.00 g	0.2...1.5 mm ² ¹⁰⁾	0.2...1.5 mm ² ¹⁰⁾	8.0...9.0 mm
OTi DALI 35/220...240/1A0 LT2	SELV	149.00 g	0.2...1.5 mm ² ¹⁰⁾	0.2...1.5 mm ² ¹⁰⁾	8.0...9.0 mm
OTi DALI 50/220...240/1A4 LT2 FAN	SELV	180.00 g	0.2...1.5 mm ² ¹⁰⁾	0.2...1.5 mm ² ¹⁰⁾	8.0...9.0 mm

Product description	Wire preparation length, output side	Height	Length	Width	Mounting hole spacing, length
OTi DALI 15/220...240/1A0 LT2	8.0...9.0 mm	30.0 mm	95.0 mm	53.0 mm	
OTi DALI 25/220...240/700 LT2	8.0...9.0 mm	29.5 mm	103.0 mm	67.0 mm	94.0 mm
OTi DALI 35/220...240/1A0 LT2	8.0...9.0 mm	29.5 mm	103.0 mm	67.0 mm	94.0 mm
OTi DALI 50/220...240/1A4 LT2 FAN	8.0...9.0 mm	25.0 mm	110.0 mm	75.0 mm	99.0 mm

Product description	Mounting hole spacing, width	Colors & materials	Temperatures & operating conditions		
		Casing material	Ambient temperature range	Maximum temperature at tc test point	Max.housing temperature in case of fault
OTi DALI 15/220...240/1A0 LT2		Plastic	-20...+50 °C	75 °C ¹¹⁾	100 °C
OTi DALI 25/220...240/700 LT2	58.0 mm	Plastic	-20...+50 °C	75 °C ¹¹⁾	110 °C
OTi DALI 35/220...240/1A0 LT2	58.0 mm	Plastic	-20...+50 °C	75 °C ¹¹⁾	110 °C
OTi DALI 50/220...240/1A4 LT2 FAN	64.0 mm	Plastic	-20...+50 °C	80 °C ¹¹⁾	110 °C

Product description	Temperature range at storage	Permitted rel. humidity during operation	Lifespan	Capabilities	
			ECG lifetime	Dimmable	Dimming interface
OTi DALI 15/220...240/1A0 LT2	-25...85 °C	5...85 % ¹²⁾	50000 / 100000 h ¹³⁾	Yes	DALI / Touch DIM / Touch DIM Sensor
OTi DALI 25/220...240/700 LT2	-25...85 °C	5...85 % ¹²⁾	50000 / 100000 h ¹³⁾	Yes	DALI / Touch DIM / Touch DIM Sensor

Product family datasheet

Product description	Temperature range at storage	Permitted rel. humidity during operation	Lifespan	Capabilities	
			ECG lifetime	Dimmable	Dimming interface
OTi DALI 35/220...240/1A0 LT2	-25...85 °C	5...85 % ¹²⁾	50000 / 100000 h ¹³⁾	Yes	DALI / Touch DIM / Touch DIM Sensor
OTi DALI 50/220...240/1A4 LT2 FAN	-25...85 °C	5...85 % ¹²⁾	50000 / 100000 h ²⁶⁾	Yes	DALI / Touch DIM / Touch DIM Sensor

Product description	Dimming range	Dimming method	Constant lumen function	Overheating protection
OTi DALI 15/220...240/1A0 LT2	1...100 % ¹⁴⁾	Amplitude Modulation	Programmable	Automatic reversible
OTi DALI 25/220...240/700 LT2	1...100 % ¹⁴⁾	Amplitude Modulation	Programmable	Automatic reversible
OTi DALI 35/220...240/1A0 LT2	1...100 % ¹⁴⁾	Amplitude Modulation	Programmable	Automatic reversible
OTi DALI 50/220...240/1A4 LT2 FAN	1...100 % ¹⁴⁾	Amplitude Modulation	Programmable	Automatic reversible

Product description	Overload protection	Short-circuit protection	No-load proof	Max. cable length to lamp/LED module
OTi DALI 15/220...240/1A0 LT2	Automatic reversible	Automatic reversible	Yes	2.0 m
OTi DALI 25/220...240/700 LT2	Automatic reversible	Automatic reversible	Yes	2.0 m
OTi DALI 35/220...240/1A0 LT2	Automatic reversible	Automatic reversible	Yes	2.0 m
OTi DALI 50/220...240/1A4 LT2 FAN	Automatic reversible	Automatic reversible	Yes	2.0 m

Product description	Suitable for fixtures with prot. class	Type of connection, output side	DALI-2 Diagnostic Data	Number of channels
OTi DALI 15/220...240/1A0 LT2	I / II	Push terminal	Yes ¹⁵⁾	1
OTi DALI 25/220...240/700 LT2	I / II	Push terminal	Yes ¹⁵⁾	1
OTi DALI 35/220...240/1A0 LT2	I / II	Push terminal	Yes ¹⁵⁾	1
OTi DALI 50/220...240/1A4 LT2 FAN	I / II	Push terminal	Yes ¹⁵⁾	1

Product description	Programming interface	DALI-2 Energy Data	Programming	
			Programming device	Tuner4TRONIC Field App
OTi DALI 15/220...240/1A0 LT2	DALI, LEDset	Yes ¹⁶⁾	DALI / LEDset	No
OTi DALI 25/220...240/700 LT2	DALI, LEDset	Yes ¹⁶⁾	DALI / LEDset	No
OTi DALI 35/220...240/1A0 LT2	DALI, LEDset	Yes ¹⁶⁾	DALI / LEDset	No
OTi DALI 50/220...240/1A4 LT2 FAN	DALI, LEDset	Yes ¹⁶⁾	DALI / LEDset	No

Product family datasheet

Product description	Programmable features			
	Lamp Operating Time	Driver Guard	DALI Settings	Emergency Mode
OTi DALI 15/220...240/1A0 LT2	Yes	No	Yes	Yes
OTi DALI 25/220...240/700 LT2	Yes	No	Yes	Yes
OTi DALI 35/220...240/1A0 LT2	Yes	No	Yes	Yes
OTi DALI 50/220...240/1A4 LT2 FAN	Yes	No	Yes	Yes

Product description	DALI-2 Luminaire Data	Configuration Lock	Soft Switch Off	Dim to Dark
OTi DALI 15/220...240/1A0 LT2	Yes ¹⁷⁾	No	Yes	No
OTi DALI 25/220...240/700 LT2	Yes ¹⁷⁾	No	Yes	No
OTi DALI 35/220...240/1A0 LT2	Yes ¹⁷⁾	No	Yes	No
OTi DALI 50/220...240/1A4 LT2 FAN	Yes ¹⁷⁾	No	Yes	No

Product description	TouchDIM + Sensor	Corridor Functionality	OEM Key	Certificates & standards
				Approval marks – approval
OTi DALI 15/220...240/1A0 LT2	Yes	Yes	Yes	ENEC 10 / VDE / EMC / EL / CE
OTi DALI 25/220...240/700 LT2	Yes	Yes	Yes	ENEC 10 / VDE / EMC / EL / CE / DALI-2
OTi DALI 35/220...240/1A0 LT2	Yes	Yes	Yes	ENEC 10 / VDE / EMC / EL / CE / DALI-2
OTi DALI 50/220...240/1A4 LT2 FAN	Yes	Yes	Yes	ENEC 10 / VDE / EMC / EL / CE / DALI-2

Product description	Standards	Protection class	Type of protection	Logistical data
				Commodity code
OTi DALI 15/220...240/1A0 LT2	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	II	IP20	850440829000
OTi DALI 25/220...240/700 LT2	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	850440829000

Product family datasheet

Product description	Standards	Protection class	Type of protection	Logistical data
				Commodity code
OTi DALI 35/220...240/1A0 LT2	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	850440829000
OTi DALI 50/220...240/1A4 LT2 FAN	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	850440829000

- 1) Permitted voltage range
- 2) At full load, 220...240 V, 50 Hz / see graphs
- 3) Typical
- 4) $t_{\text{width}} = 220 \mu\text{s}$ (measured at 50 % I_{peak})
- 5) Maximum 60 V
- 6) $\pm 5\%$
- 7) LEDset deactivated
- 8) Ripple average at 100 Hz
- 9) Partial load 3...18 W
- 10) Solid or flexible leads
- 11) Maximum at the Tc-point
- 12) Maximum 56 days/year at 85 %
- 13) $T_c = 75^\circ\text{C}$, 0.2% / 1,000 h failure rate
- 14) For maximum nominal output current
- 15) Acc. DALI part 253
- 16) Acc. DALI part 252
- 17) Acc. DALI part 251
- 18) $t_{\text{width}} = 50 \mu\text{s}$ (measured at 50 % I_{peak})
- 19) $\pm 3\%$
- 20) Partial load 7...27 W
- 21) Partial load 15...35 W
- 22) At full load and 230 V
- 23) $t_{\text{width}} = 200 \mu\text{s}$ (measured at 50 % I_{peak})

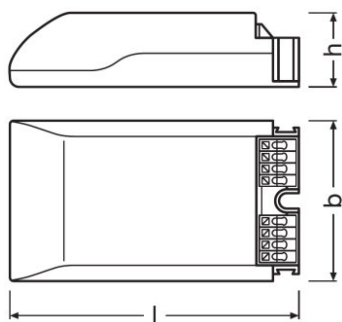
Product family datasheet

²⁴⁾ Functional Earth

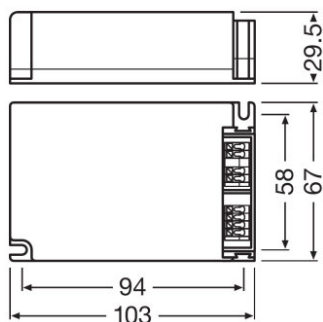
²⁵⁾ Partial load 22...55 W

²⁶⁾ $T_c = 80^\circ\text{C}$, 0.2% / 1,000 h failure rate

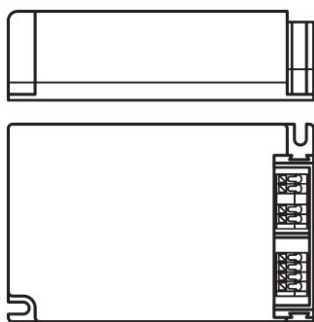
Product family datasheet



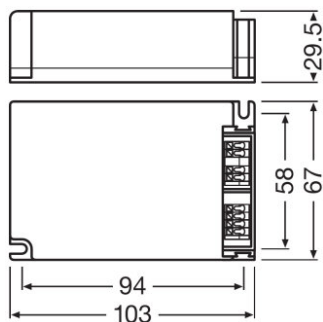
OTI DALI15220-2401A0LT2 NFC UNV1 OSRAM



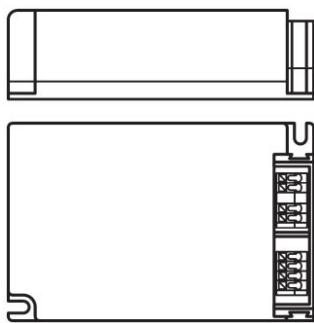
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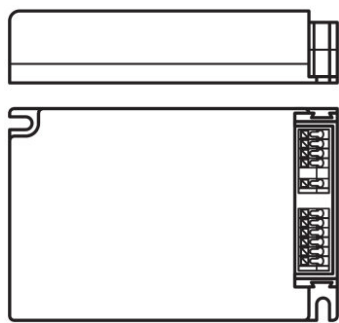
384437_OTi DALI 25220-240700 LT2



502048_OTi DALI 35220-2401A0 LT2



384426_OTi DALI 35220-2401A0 LT2



485749_OTi DALI 50220-2401A4 LT2FAN

Product family datasheet

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
	Product Datasheet OTI DALI 15 LT2 DS 150621
	Certificates OTI DALI 15 LT2 EATON AM34566 210720
	Certificates OTI DALI 15 LT2 INOTEC AM34566 210720
	Certificates OT ENEC 40038447 210721
	Certificates 664763_CB-Certificate-OTi DALI 15
	Declarations of conformity OTi DALI LT2 UK DoC 4281294 180221
	Declarations of conformity OTI DALI LT2 CE 3365628 180221
	CAD data 660729_OTi DALI 15 LT2 IGS 61119
	CAD data 660730_OTi DALI 15 LT2 CADPDF 61119
	CAD data 660731_OTi DALI 15 LT2 STEP 61119
	CAD data 673587_OT Cable Clamp F Style IGS 61119
	CAD data 673588_OT Cable Clamp F Style STEP 61119
	CAD data PDF 673589_OT Cable Clamp F Style CADPDF 61119
	User instruction OPTOTRONIC LED Power Supply
	Product Datasheet 729814_TDS OTi DALI 25

Product family datasheet

	Certificates OT EMC 40038827 290621
	Declarations of conformity EATON(CEAG)-Conformity declaration AB42877_OTi_DALI_25_220-240_700_LT2
	Declarations of conformity INOTEC- Conformity declaration AB42877_OTi_DALI_25_220-240_700_LT2
	CAD data 3-dim 491388_OTi DALI 25 35 LT2 STEP 61119
	CAD data 3-dim 491391_OTi DALI 25 35 LT2 IGS 61119
	CAD data PDF 491387_OTi DALI 25 35 LT2 CADPDF 61119
	Product Datasheet Product datasheet OTI DALI 35220-2401A0 LT2 G2
	Declarations of conformity EATON(CEAG)-Conformity declaration AB42876_OTi_DALI_35_220-240_1A0_LT2
	Declarations of conformity INOTEC- Conformity declaration AB42876_OTi_DALI_35_220-240_1A0_LT2
	User instruction OPTOTRONIC LED Power Supply
	Product Datasheet Datasheet OTI DALI 50
	Certificates OTI DALI 50 LT2 FAN CB DE1 59836 040320
	Declarations of conformity EATON(CEAG)-Conformity declaration AB42878_OTi_DALI_50_220-240_1A4_LT2_FAN
	Declarations of conformity INOTEC- Conformity declaration AB42878_OTi_DALI_50_220-240_1A4_LT2_FAN
	CAD data 3-dim 491394_OTi DALI 50 LT2 FAN STEP 61119
	CAD data PDF 491393_OTi DALI 50 LT2 FAN CADPDF 61119
	CAD data PDF 491395_OTi DALI 50 LT2 FAN IGS 61119

Product family datasheet

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.

Logistical Data

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4062172143912	OTi DALI 15/220...240/1A0 LT2	Shipping carton box 20	284 mm x 207 mm x 96 mm	5.64 dm ³	2270.00 g
4052899488144	OTi DALI 25/220...240/700 LT2	Shipping carton box 20	345 mm x 216 mm x 86 mm	6.41 dm ³	3211.00 g
4052899488168	OTi DALI 35/220...240/1A0 LT2	Shipping carton box 20	345 mm x 216 mm x 86 mm	6.41 dm ³	3211.00 g
4052899488182	OTi DALI 50/220...240/1A4 LT2 FAN	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 15/220...240/1A0 LT2	OT CABLE CLAMP F-STYLE	▶ 4052899325555
OTi DALI 25/220...240/700 LT2	OT CABLE CLAMP B-STYLE	▶ 4052899077881
OTi DALI 25/220...240/700 LT2	OT CABLE CLAMP B-STYLE TL	▶ 4052899948051
OTi DALI 35/220...240/1A0 LT2	OT CABLE CLAMP B-STYLE	▶ 4052899077881
OTi DALI 35/220...240/1A0 LT2	OT CABLE CLAMP B-STYLE TL	▶ 4052899948051
OTi DALI 50/220...240/1A4 LT2 FAN	OT CABLE CLAMP A-STYLE	▶ 4052899089570
OTi DALI 50/220...240/1A4 LT2 FAN	OT CABLE CLAMP A-STYLE TL	▶ 4052899325982

Data privacy

Product family datasheet

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.