

OTI DX 100/220...240/700 D NFC IND L

OPTOTRONIC Intelligent Industry – DEXAL (non-isolated) | Linear constant current LED driver – Dimmable



Product family features

- Line frequency: 0 Hz | 50 Hz | 60 Hz
- Versatile scope of application due to output power range of up to $150\ \mbox{W}$
- Monitoring of luminaire operating parameters
- Supply voltage: 220...240 V
- Available with output current range: up to 850 mA
- Constant Lumen Output (CLO)
- Integrated customizable thermal management (Driver Guard)
- Non-isolated drivers

Product family benefits

- Versatile non-isolated DEXAL LED driver up to 150 W due to flexible output characteristic
- Integrated DEXAL Bus power supply for sensors and wireless radios
- Simplified luminaire design for wireless lighting control system and sensors
- Locking and unlocking of luminaire/driver data
- Advanced luminaire/driver data (power, energy, operating hours...) for analytics
- Prepared for DiiA Specification Parts -250, -251, -252 and -253
- Fully programmable via T4T software (NFC, DALI Interface)
- Lifetime: up to 100,000 h (temperature at T_c = 75 °C, max. 10 % failure rate)
- High light quality: 1...100% amplitude dimming and <1% output ripple current
- Wide operating temperature range: -40...+65 °C
- High surge protection: up to 4 kV (L-N) / 4 kV (L/N-PE)
- Integrated inrush current limiter
- Very high efficiency (up to 96%)

Areas of application

- Linear and area lighting
- Industry lighting
- Suitable for luminaires of protection class I

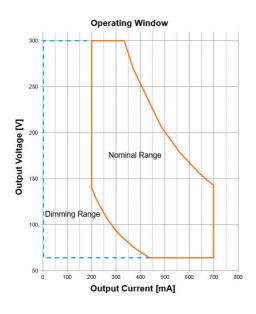
Technical data

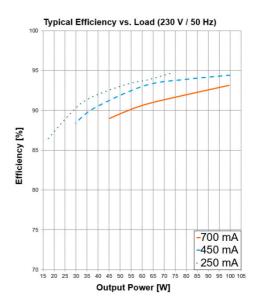
Electrical data

Mains frequency 0/50/60 Hz Input voltage AC 198264 V Input voltage DC 176276 V Current set NFC / LEDset / Programmable Total harmonic distortion < 10 % Power factor λ 0.57C0.98 Efficiency in full-load 93 % ¹¹ Device power loss 2.0 W Inrush current ≤ 5 A Max. ECG no. on circuit breaker 10 A (B) 20 Max. ECG no. on circuit breaker 10 A (C) -	Nominal input voltage	220240 V
Input voltage DC	Mains frequency	0/50/60 Hz
Current set NFC / LEDset / Programmable Total harmonic distortion < 10 % Power factor Λ 0.57C0.98 Efficiency in full-load 93 % ½ Device power loss 2.0 W Inrush current < 5 A Max. ECG no. on circuit breaker 10 A (B) 20 Max. ECG no. on circuit breaker 10 A (C) - Max. ECG no. on circuit breaker 16 A (C) - Max. ECG no. on circuit breaker 25 A (B) - Surge capability (L/N-Ground) 4 kV Surge capability (L-N) 4 kV Nominal output voltage 64300 V U-OUT (working voltage) < 310 V Nominal output current 200700 mA Output current LEDset open 100 mA Output current LEDset shorted 200 mA Default output current 100 mA ² Output ripple current (100 Hz) < 1 % Output SVM ≤ 0.4 Nominal output power 23100 W Maximum output power 100 W Galvanic isolation Non isolated Power loss in stand-by mode	Input voltage AC	198264 V
Total harmonic distortion <10 % Power factor λ 0.57C0.98 Efficiency in full-load 93 % ¹) Device power loss 2.0 W Inrush current ≤ 5 A Max. ECG no. on circuit breaker 10 A (B) 20 Max. ECG no. on circuit breaker 10 A (C) - Max. ECG no. on circuit breaker 16 A (B) 32 Max. ECG no. on circuit breaker 25 A (B) - Surge capability (L/N-Ground) 4 kV Surge capability (L-N) 4 kV Nominal output voltage 64300 V U-OUT (working voltage) < 310 V Nominal output current 200700 mA Output current LEDset open 100 mA Output current LEDset shorted 200 mA Default output current 100 mA Output ripple current (100 Hz) < 1 % Output SVM ≤0.4 Noninal output power 25100 W Maximum output power 100 W Galvanic isolation Non isolated Power loss in stand-by mode <0.25 W DEXAL Supply Voltage 15 V <th>Input voltage DC</th> <th>176276 V</th>	Input voltage DC	176276 V
Power factor λ 0.57C0.98 Efficiency in full-load 93 % ¹¹ Device power loss 2.0 W Inrush current ≤ 5 A Max. ECG no. on circuit breaker 10 A (B) 20 Max. ECG no. on circuit breaker 10 A (C) - Max. ECG no. on circuit breaker 16 A (B) 32 Max. ECG no. on circuit breaker 16 A (C) - Max. ECG no. on circuit breaker 25 A (B) - Surge capability (L/N-Ground) 4 kV Surge capability (L-N) 4 kV Nominal output voltage 64300 V U-OUT (working voltage) < 310 V Nominal output current 200700 mA Output current LEDset open 100 mA Output current LEDset shorted 200 mA Default output current 100 mA Output ripple current (100 Hz) < 1 % Output ripple current (100 Hz) < 1 % Output SVM ≤0.4 Nominal output power 23100 W Maximum output power 100 W Galvanic isolation Non isolated Dewer loss in stand-by mode	Current set	NFC / LEDset / Programmable
Efficiency in full-load Device power loss 2.0 W Inrush current ≤ 5 A Max. ECG no. on circuit breaker 10 A (B) Max. ECG no. on circuit breaker 10 A (C) Max. ECG no. on circuit breaker 16 A (B) 32 Max. ECG no. on circuit breaker 16 A (C) Max. ECG no. on circuit breaker 16 A (C) Max. ECG no. on circuit breaker 16 A (C) Max. ECG no. on circuit breaker 25 A (B) Surge capability (L/N-Ground) 4 kV Surge capability (L-N) Nominal output voltage 64300 V U-OUT (working voltage) V-OUT (working voltage) Voluput current 200700 mA Output current LEDset open 100 mA Output current LEDset shorted 200 mA Default output current 100 mA Output current tolerance ±3 % Output ripple current (100 Hz) <1 % Output PSTLM ≤1 Output PSTLM ≤1 Output SVM Nominal output power 100 W Maximum output power 100 W Galvanic isolation Non isolated Power loss in stand-by mode EXAL Supply Voltage DEXAL Supply Current 60 mA	Total harmonic distortion	< 10 %
Device power loss 2.0 W Inrush current \$ 5 A Max. ECG no. on circuit breaker 10 A (B) 20 Max. ECG no. on circuit breaker 10 A (C) Max. ECG no. on circuit breaker 16 A (B) 32 Max. ECG no. on circuit breaker 16 A (C) Max. ECG no. on circuit breaker 16 A (C) Max. ECG no. on circuit breaker 25 A (B) Surge capability (L/N-Ground) 4 kV Surge capability (L-N) Nominal output voltage 64300 V U-OUT (working voltage) V-OUT (working voltage) Nominal output current 200700 mA Output current LEDset open 100 mA Output current LEDset shorted 200 mA Default output current 100 mA Output current tolerance 43 % Output ripple current (100 Hz) V1 % Output SVM Surge capability (1-N) All Output SVM Nominal output power 100 W Maximum output power 100 W Galvanic isolation Non isolated Power loss in stand-by mode 4.0.25 W DEXAL Supply Voltage DEXAL Supply Current 60 mA	Power factor λ	0.57C0.98
Inrush current ≤ 5 A Max. ECG no. on circuit breaker 10 A (B) 20 Max. ECG no. on circuit breaker 10 A (C) - Max. ECG no. on circuit breaker 16 A (B) 32 Max. ECG no. on circuit breaker 16 A (C) - Max. ECG no. on circuit breaker 16 A (C) Max. ECG no. on circuit breaker 25 A (B) Surge capability (L/N-Ground) 4 kV Surge capability (L-N) Nominal output voltage 64300 V U-OUT (working voltage) Nominal output current 200700 mA Output current LEDset open 100 mA Output current LEDset shorted 200 mA Default output current 100 mA Output current tolerance ±3 % Output current tolerance ±3 % Output ripple current (100 Hz) ✓ 1 % Output PSTLM Output SVM Nominal output power 100 W Maximum output power 100 W Galvanic isolation Non isolated Power loss in stand-by mode 50 mA DEXAL Supply Voltage DEXAL Supply Current 60 mA	Efficiency in full-load	93 % 1)
Max. ECG no. on circuit breaker 10 A (B) Max. ECG no. on circuit breaker 10 A (C) Max. ECG no. on circuit breaker 16 A (B) 32 Max. ECG no. on circuit breaker 16 A (C) Max. ECG no. on circuit breaker 16 A (C) Max. ECG no. on circuit breaker 25 A (B) Surge capability (L/N-Ground) 4 kV Surge capability (L-N) Nominal output voltage 64300 V U-OUT (working voltage) V-OUT (working voltage) Voluput current LEDset open 100 mA Output current LEDset shorted 200 mA Default output current 100 mA 2) Output current tolerance ±3 % Output ripple current (100 Hz) V1 W Output PSTLM 41 Output SVM Avainum output power 100 W Galvanic isolation Non isolated Power loss in stand-by mode DEXAL Supply Voltage 15 V DEXAL Peak Supply Current 60 mA	Device power loss	2.0 W
Max. ECG no. on circuit breaker 10 A (C) Max. ECG no. on circuit breaker 16 A (B) Max. ECG no. on circuit breaker 16 A (C) Max. ECG no. on circuit breaker 25 A (B) Surge capability (L/N-Ground) 4 kV Surge capability (L/N-Ground) 4 kV Nominal output voltage 64300 V U-OUT (working voltage) Nominal output current 200700 mA Output current LEDset open 100 mA Output current LEDset shorted 200 mA Default output current 100 mA Output ripple current (100 Hz) Cutput FSTLM 41% Output SVM Avainum output power 100 W Galvanic isolation Non isolated Power loss in stand-by mode DEXAL Supply Voltage DEXAL Supply Voltage DEXAL Supply Current 10 32 4 kV 52 4 kV	Inrush current	≤ 5 A
Max. ECG no. on circuit breaker 16 A (B) 32 Max. ECG no. on circuit breaker 16 A (C) - Max. ECG no. on circuit breaker 25 A (B) - Surge capability (L/N-Ground) 4 kV Surge capability (L-N) 4 kV Nominal output voltage 64300 V U-OUT (working voltage) < 310 V Nominal output current 200700 mA Output current LEDset open 100 mA Output current LEDset shorted 200 mA Default output current 100 mA ²) Output current tolerance ±3 % Output ripple current (100 Hz) < 1 % Output PSTLM ≤1 Output SVM ≤0.4 Nominal output power 23100 W Maximum output power 100 W Galvanic isolation Non isolated Power loss in stand-by mode <0.25 W DEXAL Supply Voltage 15 V DEXAL Supply Current 60 mA	Max. ECG no. on circuit breaker 10 A (B)	20
Max. ECG no. on circuit breaker 16 A (C) Max. ECG no. on circuit breaker 25 A (B) Surge capability (L/N-Ground) 4 kV Surge capability (L-N) Nominal output voltage 64300 V U-OUT (working voltage) Nominal output current 200700 mA Output current LEDset open 100 mA Output current LEDset shorted 200 mA Default output current 100 mA ²⟩ Output current tolerance ±3 % Output ripple current (100 Hz) Output SVM Surge capability (L-N) Aviant output power 100 mA Output synd Surge capability (L-N) Surge capability (L-N) Aviant output current 200700 mA Default output current 100 mA 20 mA Default output current 100 mA No minal output power 100 w Maximum output power 100 w Galvanic isolation Non isolated Power loss in stand-by mode C0.25 W DEXAL Supply Voltage DEXAL Supply Current 60 mA	Max. ECG no. on circuit breaker 10 A (C)	-
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Surge capability (L/N-Ground) 4 kV Surge capability (L-N) 4 kV Nominal output voltage 64300 V U-OUT (working voltage) < 310 V Nominal output current 200700 mA Output current LEDset open 100 mA Output current LEDset shorted 200 mA Default output current 100 mA ²) Output current tolerance ±3 % Output ripple current (100 Hz) < 1 % Output SYM ≤0.4 Nominal output power 23100 W Maximum output power 100 W Galvanic isolation Non isolated Power loss in stand-by mode <0.25 W DEXAL Supply Voltage 15 V DEXAL Supply Current 60 mA	Max. ECG no. on circuit breaker 16 A (C)	-
Surge capability (L-N) 4 kV Nominal output voltage 64300 V U-OUT (working voltage) < 310 V Nominal output current 200700 mA Output current LEDset open 100 mA Output current LEDset shorted 200 mA Default output current 100 mA ²) Output current tolerance ±3 % Output ripple current (100 Hz) <1 % Output SVM ≤0.4 Nominal output power 23100 W Maximum output power 100 W Galvanic isolation Non isolated Power loss in stand-by mode <0.25 W DEXAL Supply Voltage 15 V DEXAL Supply Current 60 mA	Max. ECG no. on circuit breaker 25 A (B)	-
Nominal output voltage U-OUT (working voltage) Voltage Voltage	Surge capability (L/N-Ground)	4 kV
U-OUT (working voltage) Nominal output current 200700 mA Output current LEDset open 100 mA Output current LEDset shorted 200 mA Default output current 100 mA ²) Output current tolerance ±3 % Output ripple current (100 Hz) <1 % Output PSTLM ≤1 Output SVM ≤0.4 Nominal output power 100 W Galvanic isolation Non isolated Power loss in stand-by mode 15 V DEXAL Peak Supply Current 200700 mA 100 mA 200 mA 200 mA 200 mA 200 mA 21	Surge capability (L-N)	4 kV
Nominal output current 200700 mA Output current LEDset open 100 mA Output current LEDset shorted 200 mA Default output current 100 mA ²) Output current tolerance ±3 % Output ripple current (100 Hz) <1 % Output PSTLM ≤1 Output SVM ≤0.4 Nominal output power 23100 W Maximum output power 100 W Galvanic isolation Non isolated Power loss in stand-by mode <0.25 W DEXAL Supply Voltage 15 V DEXAL Peak Supply Current 60 mA	Nominal output voltage	64300 V
Output current LEDset open 100 mA Output current LEDset shorted 200 mA Default output current 100 mA ²) Output current tolerance ±3 % Output ripple current (100 Hz) <1 % Output PSTLM ≤1 Output SVM ≤0.4 Nominal output power 23100 W Maximum output power 100 W Galvanic isolation Non isolated Power loss in stand-by mode <0.25 W DEXAL Supply Voltage 15 V DEXAL Peak Supply Current 60 mA	U-OUT (working voltage)	< 310 V
Output current LEDset shorted 200 mA Default output current 100 mA ²) Output current tolerance ±3 % Output ripple current (100 Hz) <1 % Output PSTLM ≤1 Output SVM ≤0.4 Nominal output power 23100 W Maximum output power 100 W Galvanic isolation Non isolated Power loss in stand-by mode <0.25 W DEXAL Supply Voltage 15 V DEXAL Peak Supply Current 60 mA	Nominal output current	200700 mA
Default output current 100 mA ²) Output current tolerance ±3 % Output ripple current (100 Hz) <1 % Output PSTLM ≤1 Output SVM ≤0.4 Nominal output power 23100 W Maximum output power 100 W Galvanic isolation Non isolated Power loss in stand-by mode <0.25 W DEXAL Supply Voltage 15 V DEXAL Peak Supply Current 60 mA	Output current LEDset open	100 mA
Output current tolerance ±3 % Output ripple current (100 Hz) <1 % Output PSTLM ≤1 Output SVM ≤0.4 Nominal output power 23100 W Maximum output power 100 W Galvanic isolation Non isolated Power loss in stand-by mode <0.25 W DEXAL Supply Voltage 15 V DEXAL Peak Supply Current 60 mA	Output current LEDset shorted	200 mA
Output ripple current (100 Hz) < 1 % Output PSTLM ≤ 1 Output SVM ≤ 0.4 Nominal output power 23100 W Maximum output power 100 W Galvanic isolation Non isolated Power loss in stand-by mode < 0.25 W DEXAL Supply Voltage 15 V DEXAL Peak Supply Current 60 mA	Default output current	100 mA ²⁾
Output PSTLM ≤1 Output SVM ≤0.4 Nominal output power 23100 W Maximum output power 100 W Galvanic isolation Non isolated Power loss in stand-by mode <0.25 W DEXAL Supply Voltage 15 V DEXAL Peak Supply Current 60 mA	Output current tolerance	±3 %
Output SVM ≤0.4 Nominal output power 23100 W Maximum output power 100 W Galvanic isolation Non isolated Power loss in stand-by mode <0.25 W DEXAL Supply Voltage 15 V DEXAL Peak Supply Current 60 mA	Output ripple current (100 Hz)	< 1 %
Nominal output power 23100 W Maximum output power 100 W Galvanic isolation Non isolated Power loss in stand-by mode <0.25 W DEXAL Supply Voltage 15 V DEXAL Peak Supply Current 60 mA	Output PSTLM	≤1
Maximum output power 100 W Galvanic isolation Non isolated Power loss in stand-by mode <0.25 W DEXAL Supply Voltage 15 V DEXAL Peak Supply Current 60 mA	Output SVM	≤0.4
Galvanic isolation Non isolated Power loss in stand-by mode <0.25 W DEXAL Supply Voltage 15 V DEXAL Peak Supply Current 60 mA	Nominal output power	23100 W
Power loss in stand-by mode <0.25 W DEXAL Supply Voltage 15 V DEXAL Peak Supply Current 60 mA	Maximum output power	100 W
DEXAL Supply Voltage 15 V DEXAL Peak Supply Current 60 mA	Galvanic isolation	Non isolated
DEXAL Peak Supply Current 60 mA	Power loss in stand-by mode	<0.25 W
• • • • • • • • • • • • • • • • • • • •	DEXAL Supply Voltage	15 V
DEXAL Guaranteed Supply Current 53 mA	DEXAL Peak Supply Current	60 mA
	DEXAL Guaranteed Supply Current	53 mA

¹⁾ at 230 V, 50 Hz

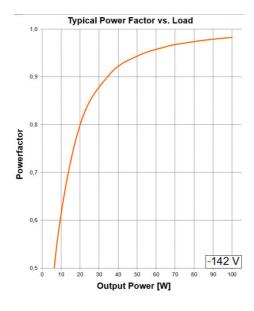
²⁾ LEDset deactivated

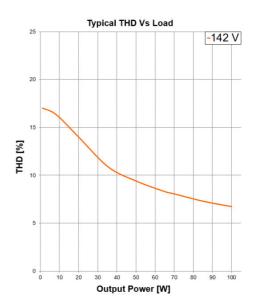




Operating window OTI DX 100700 D NFC IND L

Typical Efficiency vs. Load (230 V $\,$ 50 Hz) OTI DX 100700 D NFC IND L





Typical Power Factor vs. Load OTI DX 100700 D NFC IND L

Typical THD vs. Load OTI DX 100700 D NFC IND L

Dimensions & weight





Mounting hole spacing, length	414.0 mm
Product weight	311.13 g
Cable cross-section, input side	0.51.5 mm ²
Cable cross-section, output side	0.51.5 mm ²
Wire preparation length, input side	8.09.0 mm
Wire preparation length, output side	8.09.0 mm
Length	425.0 mm
Width	30.0 mm
Height	21.0 mm

Colors & materials

Casing material	Metal
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Temperatures & operating conditions

Ambient temperature range	-40+70 °C
Maximum temperature at tc test point	85 °C
Max.housing temperature in case of fault	110 °C
Temperature range at storage	-40+85 °C
Permitted rel. humidity during operation	585 % ¹⁾

 $^{^{1)}}$ Maximum 56 days/year at 85 %

Lifespan

ECG lifetime	100000 / 50000 h
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Additional product data

Encapsulated	No
pos	

Capabilities

Programming interface	DEXAL, NFC, LEDset
Programming interface	DEXAL, NFC, LEDSEL
Dimmable	Yes
Dimming interface	DALI-2 / DEXAL
Dimming range	1100 %
Dimming method	Full analogue dimming / AM/PWM selectable
Overheating protection	Automatic reversible
Overload protection	Automatic reversible
Short-circuit protection	Automatic reversible
No-load proof	Yes
Intended for no-load operation	No
Max. cable length to lamp/LED module	2.0 m ¹⁾
Suitable for fixtures with prot. class	I
Suitable for emergency lighting	Yes
Type of connection, input side	Push terminal
Type of connection, output side	Push terminal
Constant lumen function	Programmable
Control interface	DEXAL
Number of channels	1
DALI-2 Energy Data	Yes
DALI-2 Diagnostic Data	Yes

 $^{^{1)}}$ Output wires must be routed as close as possible to each other

Programming

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

Programmable features

DEXAL Power Supply Unit	Yes
DALI-2 Luminaire Data	Yes

Certificates & standards

Approval marks – approval	CE / EL / VDE-ENEC / VDE-EMC / EAC / CCC / BIS / RCM
Standards	Acc. to IEC 61347-1/Acc. to IEC 61347-2-13/Acc. to IEC 62384/Acc. to IEC 62386/Acc. to IEC 61000-3-2/Acc. to IEC 61000-3-3/Acc. to IEC 61547

Type of protection	IP20
Logistical data	
Commodity code	850440829000

Environmental information

Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACh)	
Date of Declaration	20-11-2023
Primary Article Identifier	4062172050883
Candidate List Substance 1	Lead
CAS No. of substance 1	7439-92-1
Safe Use Instruction	The identification of the Candidate List substance is sufficient to allow safe use of the article.
Declaration No. in SCIP database	138efd98-9890-461a-92c7-9259550af640

Additional product information

- The DEXAL interface is polarity sensitive, even if the DEXAL bus power supply in the driver is turned off. Therefore the polarity of all connected drivers should not be mixed.
- For efficiency and standby power measurement, the D4i bus power supply shall be switched off by using Tuner4TRONIC. Refer to www.tuner4tronic.com.

Download Data

	File
<u> </u>	User instruction OPTOTRONIC LED Power Supply
Z	Brochures Technical application guide DEXAL LED drivers (EN)
Z	Certificates OT ENEC 40038085 010322
7	Certificates OT EMC 40044675 031022
乙	Declarations of conformity OTI DX D NFC IND L CE 3790165 020921
秀	Declarations of conformity OTI DX D NFC IND L UK DoC 4287982 090221
<u> </u>	CAD data OTI DX D NFC IND L IGS 191219
i	CAD data OTI DX D NFC IND L STEP 191219



CAD Data 2-dim

OTI DX D NFC IND L CAD2PDF 191219



CAD data 3-dim

OTI DX D NFC IND L CAD3PDF 191219

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
4062172050883	OTI DX 100/220240/700 D NFC IND L	Shipping carton box 20	447 mm x 160 mm x 101 mm	7.22 dm³	6421.00 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.

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.

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