OPTOTRONIC Wireless Intelligent – Casambi NFC L (non-isolated)

Linear constant current LED driver – Dimmable

Areas of application

- Linear lighting for office, education, industry, storage areas and retail
- Installation in emergency lighting systems according to IEC 61347-2-13, appendix J
- Suitable for indoor non-isolated installations
- Suitable for luminaires of protection class I

Product family benefits

- Versatile Casambi window driver up to 100 W and 750 mA
- Fully programmable via software (NFC)
- Very high efficiency
- High-quality dimming of 1...100 % (amplitude and/or PWM selectable by software)
- Higher quality of light thanks to < 1% output ripple current
- Fulfill safety requirement due to overload, overtemperature, Hot Plug protection

Product family features

- CRP Casambi Ready Product
- Supply voltage: 220...240 V
- Line frequency: 0 Hz | 50 Hz | 60 Hz
- Line voltage: 198...264 V
- Lifetime: up to 100,000 h
- Type of protection: IP20
- Non-isolated drivers

Technical data

Electrical data

Product description	Nominal input voltage	Mains frequency	Input voltage AC	Input voltage DC	Current set
OT WI 35/220...240/400 D NFC CA L	220...240 V	0/50/60 Hz	198...264 V	176...276 V	NFC
OT WI 75/220...240/550 D NFC CA L	220...240 V	0/50/60 Hz	198...264 V	176...276 V	NFC
OT WI 100/220...240/750 D NFC CA L	220...240 V	0/50/60 Hz	198...264 V	176...276 V	NFC

Product description	Total harmonic distortion	Power factor λ	Efficiency in full-load	Inrush current	Max. ECG no. on circuit breaker 10 A (C)
OT WI 35/220...240/400 D NFC CA L	8 %	0.47C...0.97	92 %	≤ 21 A	-
OT WI 75/220...240/550 D NFC CA L	≤ 10 %	0.47C...0.98	93 %	≤ 28 A	-
OT WI 100/220...240/750 D NFC CA L	≤ 10 %	0.39C...0.99	94 %	≤ 36 A	-

Product description	Max. ECG no. on circuit breaker 10 A (B)	Max. ECG no. on circuit breaker 16 A (C)	Max. ECG no. on circuit breaker 16 A (B)	Max. ECG no. on circuit breaker 25 A (B)	Surge capability (L/N-Ground)
OT WI 35/220...240/400 D NFC CA L	17	-	28	-	2 kV
OT WI 75/220...240/550 D NFC CA L	14	-	23	-	2 kV
OT WI 100/220...240/750 D NFC CA L	13	-	21	-	2 kV

Product description	Surge capability (L-N)	Nominal output voltage	U-OUT (working voltage)	Nominal output current	Default output current
OT WI 35/220...240/400 D NFC CA L	1 kV	54...240 V	< 250 V	75...400 mA	75 mA
OT WI 75/220...240/550 D NFC CA L	1 kV	54...240 V	< 250 V	125...550 mA	125 mA
OT WI 100/220...240/750 D NFC CA L	1 kV	54...260 V	< 270 V	100...750 mA	100 mA

Product description	Output current tolerance	Output ripple current (100 Hz)	Output PSTLM
OT WI 35/220...240/400 D NFC CA L	±3 %	< 1 %	<1
OT WI 75/220...240/550 D NFC CA L	±3 %	< 1 %	<1
OT WI 100/220...240/750 D NFC CA L	±3 %	< 1 %	<1

Product description	Output SVM	Nominal output power	Maximum output power	Galvanic isolation
OT WI 35/220...240/400 D NFC CA L	<0.4	4...38 W	38 W	Non isolated
OT WI 75/220...240/550 D NFC CA L	<0.4	6.5...75 W	75 W	Non isolated
OT WI 100/220...240/750 D NFC CA L	<0.4	5.4...100 W	100 W	Non isolated

Product description	Galvanic isolation primary/secondary	Networked standby power	Wireless protocol
OT WI 35/220...240/400 D NFC CA L	-	<0.20 W [1)]	Casambi Evolution
OT WI 75/220...240/550 D NFC CA L	-	<0.20 W [1)]	Casambi Evolution

Product description	Galvanic isolation primary/secondary	Networked standby power	Wireless protocol
OT WI 100/220...240/750 D NFC CA L	-	<0.20 W [1)]	Casambi Evolution

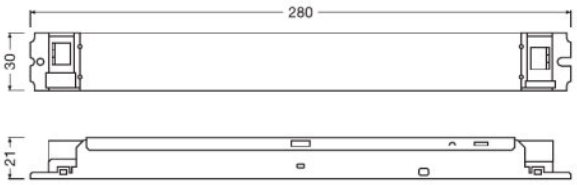
1) at 230 V, 50 Hz

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
OT WI 35/220...240/400 D NFC CA L	270.0 mm	170.00 g	0.5...1.5 mm²	0.5...1.5 mm²	8.0...9.0 mm
OT WI 75/220...240/550 D NFC CA L	270.0 mm	180.00 g	0.5...1.5 mm²	0.5...1.5 mm²	8.0...9.0 mm
OT WI 100/220...240/750 D NFC CA L	270.0 mm	212.00 g	0.5...1.5 mm²	0.5...1.5 mm²	8.0...9.0 mm

Product description	Wire preparation length, output side	Height	Width	Length
OT WI 35/220...240/400 D NFC CA L	8.0...9.0 mm	21.0 mm	30.0 mm	280.0 mm
OT WI 75/220...240/550 D NFC CA L	8.0...9.0 mm	21.0 mm	30.0 mm	280.0 mm
OT WI 100/220...240/750 D NFC CA L	8.0...9.0 mm	21.0 mm	30.0 mm	280.0 mm

Product line drawing



OT WI 35/220...240/400 D NFC CA L, OT WI 75/220...240/550 D NFC CA L, OT WI 100/220...240/750 D NFC CA L

Colors & materials

Product description	Casing material
OT WI 35/220...240/400 D NFC CA L	Metal
OT WI 75/220...240/550 D NFC CA L	Metal
OT WI 100/220...240/750 D NFC CA L	Metal

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
OT WI 35/220...240/400 D NFC CA L	-25...+60 °C	75 °C	110 °C	-40...+85 °C
OT WI 75/220...240/550 D NFC CA L	-25...+50 °C	75 °C	110 °C	-40...+85 °C
OT WI 100/220...240/750 D NFC CA L	-25...+50 °C	75 °C	110 °C	-40...+85 °C

Product description	Permitted rel. humidity during operation
OT WI 35/220...240/400 D NFC CA L	5...85 % [1)]
OT WI 75/220...240/550 D NFC CA L	5...85 % [1)]
OT WI 100/220...240/750 D NFC CA L	5...85 % [1)]

[1)] Maximum 56 days/year at 85 %

Lifespan

Product description	ECG lifetime
OT WI 35/220...240/400 D NFC CA L	100000 h
OT WI 75/220...240/550 D NFC CA L	100000 h
OT WI 100/220...240/750 D NFC CA L	100000 h

Additional product data

Product description	Encapsulated
OT WI 35/220...240/400 D NFC CA L	No
OT WI 75/220...240/550 D NFC CA L	No
OT WI 100/220...240/750 D NFC CA L	No

Capabilities

Product description	Programming interface	Dimmable	Dimming interface	Dimming range
OT WI 35/220...240/400 D NFC CA L	NFC	Yes	Casambi	1...100 %
OT WI 75/220...240/550 D NFC CA L	NFC	Yes	Casambi	1...100 %
OT WI 100/220...240/750 D NFC CA L	NFC	Yes	Casambi	1...100 %

Product description	Dimming method	Overheating protection	Overload protection
OT WI 35/220...240/400 D NFC CA L	Amplitude Modulation	Automatic reversible	Automatic reversible

Product description	Dimming method	Overheating protection	Overload protection
OT WI 75/220...240/550 D NFC CA L	Amplitude Modulation	Automatic reversible	Automatic reversible
OT WI 100/220...240/750 D NFC CA L	Amplitude Modulation	Automatic reversible	Automatic reversible

Product description	Short-circuit protection	No-load proof	Intended for no-load operation	Max. cable length to lamp/LED module
OT WI 35/220...240/400 D NFC CA L	Automatic reversible	Yes	No	2.0 m [1)]
OT WI 75/220...240/550 D NFC CA L	Automatic reversible	Yes	No	2.0 m [1)]
OT WI 100/220...240/750 D NFC CA L	Automatic reversible	Yes	No	2.0 m [1)]

Product description	Suitable for fixtures with prot. class	Suitable for emergency lighting	Type of connection, input side	Type of connection, output side
OT WI 35/220...240/400 D NFC CA L	I	Yes	Push terminal	Push terminal
OT WI 75/220...240/550 D NFC CA L	I	Yes	Push terminal	Push terminal
OT WI 100/220...240/750 D NFC CA L	I	Yes	Push terminal	Push terminal

Product description	Number of channels	Suitable for through-wiring
OT WI 35/220...240/400 D NFC CA L	1	No
OT WI 75/220...240/550 D NFC CA L	1	No
OT WI 100/220...240/750 D NFC CA L	1	No

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

Programming

Product description	Programming device	Box programming
OT WI 35/220...240/400 D NFC CA L	FEIG / NFC Programmer	Yes
OT WI 75/220...240/550 D NFC CA L	FEIG / NFC Programmer	Yes
OT WI 100/220...240/750 D NFC CA L	FEIG / NFC Programmer	Yes

Certificates & standards

Product description	Approval marks – approval	Standards	Type of protection
OT WI 35/220...240/400 D NFC CA L	CE / VDE-ENEC / RCM / CCC / BIS / EL	Acc. to IEC 61347-1/Acc. to IEC 61347-2-13/Acc. to IEC 62384/Acc. to IEC 61000-3-2/Acc. to IEC 61000-3-3/Acc. to IEC 61547	IP20
OT WI 75/220...240/550 D NFC CA L	CE / VDE-ENEC / RCM / CCC / BIS / EL	Acc. to IEC 61347-1/Acc. to IEC 61347-2-13/Acc. to IEC 62384/Acc. to IEC 61000-3-2/Acc. to IEC 61000-3-3/Acc. to IEC 61547	IP20
OT WI 100/220...240/750 D NFC CA L	CE / VDE-ENEC / RCM / CCC / BIS / EL	Acc. to IEC 61347-1/Acc. to IEC 61347-2-13/Acc. to IEC 62384/Acc. to IEC 61000-3-2/Acc. to IEC 61000-3-3/Acc. to IEC 61547	IP20

Logistical data

Product description	Commodity code
OT WI 35/220...240/400 D NFC CA L	85044095900
OT WI 75/220...240/550 D NFC CA L	85044095900
OT WI 100/220...240/750 D NFC CA L	85044095900

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
OT WI 35/220...240/400 D NFC CA L	11-10-2023	4062172267434	Lead
OT WI 75/220...240/550 D NFC CA L	11-10-2023	4062172267458	Lead
OT WI 100/220...240/750 D NFC CA L	11-10-2023	4062172267472	Lead

Product description	CAS No. of substance 1	Safe Use Instruction	Declaration No. in SCIP database
OT WI 35/220...240/400 D NFC CA L	7439-92-1	The identification of the Candidate List substance is sufficient to allow safe use of the article.	df47aad9-2e1a-4883-abef-4edcc761b617
OT WI 75/220...240/550 D NFC CA L	7439-92-1	The identification of the Candidate List substance is sufficient to allow safe use of the article.	80f083c4-d3d2-472f-a6ad-372904d3dd65

Product description	CAS No. of substance 1	Safe Use Instruction	Declaration No. in SCIP database
OT WI 100/220...240/750 D NFC CA L	7439-92-1	The identification of the Candidate List substance is sufficient to allow safe use of the article.	42a7611f-bb23-4299-adf7-95e73bbb4f56

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
	Certificates OT ENEC 40038085 010322
	CAD data OT WI D NFC CA BL L IGS 130722
	CAD data OT WI D NFC CA BL L STEP 130722
	CAD Data 2-dim OT WI D NFC CA BL L CAD2PDF 130722
	CAD data 3-dim OT WI D NFC CA BL L CAD3PDF 130722

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
4062172267434	OT WI 35/220...240/400 D NFC CA L	Shipping carton box 20	303 mm x 159 mm x 105 mm	5.06 dm^3	3527.00 g
4062172267458	OT WI 75/220...240/550 D NFC CA L	Shipping carton box 20	303 mm x 159 mm x 105 mm	5.06 dm^3	3727.00 g
4062172267472	OT WI 100/220...240/750 D NFC CA L	Shipping carton box 20	303 mm x 159 mm x 105 mm	5.06 dm^3	4367.00 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.

Disclaimer

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