



LEDVANCE

LEDVANCE.COM

Products of OSRAM GmbH,
distributed by LEDVANCE

Light is reliable

OPTOTRONIC® LED drivers for indoor and outdoor applications

Flexible and versatile constant-current and constant-voltage drivers

Light is OSRAM

OSRAM

Always an excellent choice

With our OPTOTRONIC® LED drivers, you benefit from high-performance products that are characterized by high reliability, efficiency, flexibility and quality.

LED lighting becomes more and more attractive. High efficiency, energy savings and a modern design are just a few of the many advantages that make these systems increasingly popular. In addition, LED lighting also allows you to create an impressive ambience with colored accents (RGB) and, thanks to Tunable White, you can easily achieve a sequence of white light based on the circadian rhythm.

For the implementation of dynamic lighting scenarios, LED drivers with DALI interface are usually used. The LEDs (light-emitting diodes), however, need sufficient current to provide the required brightness (constant-current systems). Alternatively, they need a constant voltage of 12 or 24 volts to achieve their brightness data. Both the operating current and the constant voltage have

very narrow tolerances and therefore have to be limited in order not to damage the LEDs. The operating system, which normally consists of one or several LED modules as well as one or several LED drivers, is a perfectly matched system that has to meet certain requirements. The LED drivers are the connection to the mains supply – they provide the basis for failure-free and optimum operation of the LED lighting solutions.

Thanks to different wattages and a comprehensive range of designs, you can quickly and easily find the ideal system for the respective application.

Your benefits

- 1. Maximum reliability** thanks to long experience: Re-use of know-how from well-proven OSRAM ECGs (electronic control gears) such as HALOTRONIC®, POWERTRONIC® and QUICKTRONIC®.
- 2. High energy efficiency:** Up to 92 % (full load) and further energy saving with proprietary OSRAM light management systems (LMS).
- 3. Freedom of design:** Same driver for built-in and independent mounting through optional kits, small form factor similar to traditional ECGs.
- 4. Wide product portfolio:** Various product families, window drivers, dimmable products and different wattages.



Future-proof solutions

Using OPTOTRONIC® drivers not only means using durable, high-performance products but also staying flexible in terms of future applications: OPTOTRONIC® drivers can be perfectly adjusted to their respective tasks and, if required, also be optimized later on by means of top-quality accessories (e.g. cable clamps) from OSRAM.

Key component for LED systems

LED drivers are a key component in LED solutions. Thanks to the diversity of the OPTOTRONIC® portfolio, you can meet all requirements – both in indoor and outdoor applications.

Maximum choice

OPTOTRONIC® constant-voltage LED drivers (24V/12V)

In combination with the flexible LED strips LINEARlight Flex® and VALUE Flex® from OSRAM, OPTOTRONIC® LED drivers with a constant output voltage of 24 V or 12 V allow you to realize almost any lighting solution – from decorative indirect, accent and cove lighting to direct general lighting. They are available in a wattage range of up to 240 W. For system operation, you have to ensure that the output of the used Flex strip does not exceed the maximum output of the LED driver. Furthermore, in case of partial load operation, you also have to consider the minimum load of the used LED driver. In this product spectrum, the OPTOTRONIC® portfolio includes LED drivers with integrated control interface (DALI, 1...10V, EASY) as well as with externally combinable control units (DALI, DMX, 1...10V). Electrical isolation between the primary and secondary side (SELV, SELV-equivalent) and reversible overload, short-circuit and overtemperature protection mechanisms enable safe and reliable LED system installation.

Compact OPTOTRONIC® constant-current LED drivers, indoor

- OPTOTRONIC® Intelligent DALI window drivers
- 4 ON/OFF driver families:
 - OPTOTRONIC® FIT LT2, window driver (SELV)
 - OPTOTRONIC® FIT CS G2, 4 selectable currents (SELV)
 - OPTOTRONIC® FIT CS G1, 3 selectable currents (SELV)
 - OPTOTRONIC® ECO, 3 selectable currents (SELV)
- OPTOTRONIC® ECO PC
 - Dimmable via phase-cut (10–100 %, depending on dimmer)

Linear OPTOTRONIC® constant-current LED drivers, indoor

- OPTOTRONIC® Intelligent DALI window drivers are based on a digital platform and are fully programmable
- 4 ON/OFF driver families:
 - OPTOTRONIC® FIT LT2 DL, window driver (non-isolated)
 - OPTOTRONIC® FIT DL, fixed current (non-isolated)
 - OPTOTRONIC® FIT CSL G2, 4 selectable currents (SELV)
 - OPTOTRONIC® FIT CS L, 3 selectable currents
- SELV and non-isolated versions

OPTOTRONIC® constant-current LED drivers, outdoor

Long life, low maintenance and high efficiency are very important for outdoor applications. OPTOTRONIC® outdoor LED drivers fulfill these expectations and exploit the advantages of LED-based light sources.

Compact OSRAM constant-current LED drivers, indoor

Product picture	Product family/ Isolation	Product name	GTIN (EAN)	Nominal input voltage [V]	Output power [W]	Output voltage [V]	Rated current [mA]	Power factor	Efficiency (max.) [%]	Ripple (100Hz) [%]
	DALI – SELV	OTi DALI 15/220...240/1A4 LT2	4052899 324879	220...240	3...18	7.5...54	150-1050	> 0.95	up to 88	< 1
		OTi DALI 25/220...240/700 LT2	4052899 488144	220...240	7...27	12...54	180-700	> 0.95	up to 88	< 1
		OTi DALI 35/220...240/1A0 LT2	4052899 488168	220...240	15...35	15...54	350-1050	> 0.95	up to 88	< 1
		OTi DALI 50/220...240/1A4 LT2 FAN	4052899 488182	220...240	22...55	15...54	600-1400	> 0.95	up to 92	< 1
	Phase-cut (PC) – SELV	OTe 10/220...240/700 PC	4052899 105300	220...240	5...10	7...14	700	> 0.95	up to 79	35
		OTe 13/220...240/350 PC	4052899 105324	220...240	6.5...13.5	18...38	350	> 0.95	up to 82	25
		OTe 18/220...240/350 PC	4052899 105348	220...240	9.5...19	27...54	350	> 0.95	up to 84	< 35
		OTe 18/220...240/500 PC	4052899 105362	220...240	9...18	18...36	500	> 0.95	up to 84	< 35
		OTe 25/220...240/700 PC	4052899 105386	220...240	12.5...25	18...36	700	> 0.95	up to 85	< 35
		OTe 35/220...240/700 PC	400832 1825520	220...240	19...35	27...50	700	> 0.95	up to 85	< 35
	OT FIT LT2 – LP– SELV (Window) Low profile	OT FIT 15/220-240/500 LT2 LP	4052899 490673	220...240	4.5...17.5	15...50	150...500	> 0.95	up to 84	< 5
		OT FIT 25/220-240/700 LT2 LP	4052899 490697	220...240	8...26.5	15...50	300...700	> 0.95	up to 86	< 5
		OT FIT 40/220-240/1A0 LT2 LP	4052899 490734	220...240	13...40	15...50	500...1050	> 0.97	up to 87	< 5
	OT FIT LT2 – SELV (Window)	OT FIT 15/220-240/500 LT2 S	4052899 956995	220...240	4.5...17.5	15...50	150...500	> 0.95	up to 84	< 1
		OT FIT 25/220-240/700 LT2 S	4052899 957008	220...240	8...26.5	15...50	300...700	> 0.95	up to 86	< 1
		OT FIT 40/220-240/1A0 LT2 S	4052899 957015	220...240	13...40	15...50	500...1050	> 0.97	up to 87	< 1
	OT FIT CS G2 – SELV (DIP switch)	OT FIT 20/220...240/500 CS G2	4052899 435612	220...240	6.5...21	25...42	250/350/450/500	0.98	up to 87	< 5
		OT FIT 30/220...240/700 CS G2	4052899 435636	220...240	11.5...29.4	23...42	500/600/650/700	0.98	up to 89	< 5
		OT FIT 40/220...240/1A0 CS G2	4052899 435650	220...240	20...44	25...42	800/900/950/1050	0.98	up to 90	< 5
	OT FIT – SELV	OT FIT 15/220...240/350 CS	4052899 919426	220...240	7...19	27...54	250/300/350	> 0.95	up to 83	< 5
		OT FIT 25/220...240/500 CS	4052899 919419	220...240	11...27	27...54	400/450/500	> 0.95	up to 85	< 5
		OT FIT 35/220...240/700 CS	4052899 919402	220...240	15...37.5	27...54	550/600/700	> 0.95	up to 87	< 5
		OT FIT 50/220...240/1A0 CS	4052899 166318	220...240	27...54	27...54	800/900/1050	> 0.95	up to 89	6
	OT ECO – SELV	OTe 25/220...240/420 CS	4052899 917538	220...240	8...23	27...54	290/350/420	> 0.95	up to 85	20 ³⁾
		OTe 25/220...240/700 CS	4052899 917545	220...240	9...25	18...36	500/600/700	> 0.95	up to 85	25 ³⁾
		OTe 35/220...240/700 CS	4052899 917569	220...240	13...37	27...54	500/600/700	> 0.95	up to 87	25 ³⁾
		OTe 35/220...240/700 CS S	4052899 917552	220...240	13...37	27...54	500/600/700	> 0.95	up to 87	25 ³⁾
		OTe 35/220...240/1A0 CS	4052899 917668	220...240	14...36	17...34	800/925/1050	> 0.95	up to 87	30 ³⁾
		OTe 35/220...240/1A0 CS S	4052899 917651	220...240	14...36	17...34	800/925/1050	> 0.95	up to 87	25 ³⁾
		OTe 50/220...240/1A0 CS	4052899 917576	220...240	22...56	27...54	800/925/1050	> 0.95	up to 87	20 ³⁾
		OTe 50/220...240/1A4 CS	4052899 917583	220...240	21...50	18...36	1150/1250/1400	> 0.95	up to 87	25 ³⁾
		OTe 50/220...240/1A0 CS FAN	4052899 919396	220...240	22...56	27...54	700/900/1050	> 0.95	up to 88	30 ³⁾
	ELEMENT – SELV	Element LD 8/220...240/180	4052899 947078	220...240	4...8	21...42	180	0.85	up to 88	< 40
		Element LD 15/220...240/350	4025899 947085	220...240	7.4...14.7	21...42	350	0.95	> 87	< 40
		Element LD 20/220...240/500	4052899 947092	220...240	11...21	21...42	500	0.98	> 87	< 40
		Element LD 30/220...240/700	4052899 947108	220...240	15...30	21...42	700	0.98	> 90	< 40
		Element LD 38/220...240/900	4052899 947115	220...240	19...38	21...42	900	0.98	> 90	< 40
		Element LD 45/220...240/1A0	4052899 947122	220...240	22...45	21...42	1050	0.98	> 90	< 40
		Element LD 60/220...240/1A4	4052899 947139	220...240	29...59	21...42	1400	0.98	up to 90	< 40
      										
	Product name	OT cable clamp A-STYLE	Product number	4052899 089570	Dimensions (L x W x H) [mm]	35 x 65 x 25	Standard pack [pcs.]	20		
	Product name	OT cable clamp A-STYLE TL	Product number	4052899 325982	Dimensions (L x W x H) [mm]	90 x 92 x 25	Standard pack [pcs.]	20		
	Product name	OT cable clamp B-STYLE	Product number	4052899 077881	Dimensions (L x W x H) [mm]	35 x 58 x 29.5	Standard pack [pcs.]	10		
	Product name	OT cable clamp B-STYLE	Product number	4052899 077881	Dimensions (L x W x H) [mm]	35 x 58 x 29.5	Standard pack [pcs.]	10		

1) At max. T_c temperature, max. failure rate of 10 %
2) Operating at 10 °C lower than max. T_c, max. failure rate of 10 %
3) Typical
4) Operating at 5 °C lower than max. T_c, max. failure rate of 10 %
5) DC-Voltage range 176 V...276 V
6) For current status of certificates and approvals, see product datasheet online

* 1. If the LED driver complies with protection class I, it is suitable for protection class I luminaires.
2. If the LED driver complies with protection class II, it is suitable for protection class I and class II luminaires.

** DALI Edition 2 version, AM-Dimming
*** OTe 35/220...240/700 PC is only suitable for protection class II luminaires.

Dimmable	Dimensions (L x W x H) [mm]	Ambient temperature range [°C]	T _c max. [°C]	Lifetime [h]	EL Emergency Lighting ⁵⁾	Protection class	IP protection	Certificates & approvals ⁶⁾	Cable clamp kit	Standard pack [pcs.]
DALI**	95x53x30	-20...+50	75	50 k ^{1)/100 k²⁾}	Yes	II	IP20	CE, ENEC, VDE, EMC, MM, EL, CCC	F-STYLE	20
DALI**	103x67x29.5	-20...+50	75	50 k ^{1)/100 k²⁾}	Yes	II	IP20	CE, ENEC, VDE, EMC, F, MM, EL, CCC, EAC	B-STYLE, ...TL	20
DALI**	103x67x29.5	-20...+50	75	50 k ^{1)/100 k²⁾}	Yes	II	IP20	CE, ENEC, VDE, EMC, F, MM, EL, CCC, EAC	B-STYLE, ...TL	20
DALI**	110x75x25	-20...+50	80	50 k ^{1)/100 k²⁾}	Yes	II	IP20	CE, ENEC, VDE, EMC, F, MM, EL, CCC, EAC	A-STYLE, ...TL	20
Phase cut	95x53x25	-20...+55	80	35 k ^{1)/50 k²⁾}	No	II	IP20	CE, ENEC, VDE, F, MM, CCC	E-STYLE	20
Phase cut	95x53x25	-20...+55	85	35 k ^{1)/50 k²⁾}	No	II	IP20	CE, ENEC, VDE, F, MM, CCC	E-STYLE	20
Phase cut	95x53x30	-20...+55	75	35 k ^{1)/50 k²⁾}	No	II	IP20	CE, ENEC, VDE, F, MM, CCC	E-STYLE	20
Phase cut	95x53x30	-20...+55	75	35 k ^{1)/50 k²⁾}	No	II	IP20	CE, ENEC, VDE, F, MM, CCC	E-STYLE	20
Phase cut	95x53x30	-20...+50	75	35 k ^{1)/50 k²⁾}	No	II	IP20	CE, ENEC, VDE, F, MM, CCC	E-STYLE	20
Phase cut	153x54x36	-20...+45	75	35 k ^{1)/50 k²⁾}	No	II***	IP20	CE, ENEC, VDE, F, MM, CCC		10
No	103x67x22.5	-20...+50	75	50 k ^{1)/100 k²⁾}	Yes	II	IP20	CE, ENEC, VDE, EMC, F, MM, EL, CCC	B-STYLE L, TL	20
No	103x67x22.5	-20...+50	75	50 k ^{1)/100 k²⁾}	Yes	II	IP20	CE, ENEC, VDE, EMC, F, MM, EL, CCC	B-STYLE L, TL	20
No	103x67x22.5	-20...+40	75	50 k ^{1)/100 k²⁾}	Yes	II	IP20	CE, ENEC, VDE, EMC, F, MM, EL, CCC	B-STYLE L, TL	20
No	97x43x29.5	-20...+50	75	50 k ^{1)/100 k²⁾}	No	II	IP20	CE, ENEC, VDE, EMC, RCM, CCC	D-STYLE	20
No	97x43x29.5	-20...+50	75	50 k ^{1)/100 k²⁾}	No	II	IP20	CE, ENEC, VDE, EMC, RCM, CCC	D-STYLE	20
No	97x43x29.5	-20...+40	75	50 k ^{1)/100 k²⁾}	No	II	IP20	CE, ENEC, VDE, EMC, RCM, CCC	D-STYLE	20
No	97x43x29.5	-20...+50	80	50 k ²⁾	No	II	IP20	CE, ENEC, RCM, CCC	D-STYLE	20
No	97x43x29.5	-20...+50	80	50 k ²⁾	No	II	IP20	CE, ENEC, RCM, CCC	D-STYLE	20
No	97x43x29.5	-20...+50	80	50 k ²⁾	No	II	IP20	CE, ENEC, RCM, CCC	D-STYLE	20
No	103x67x29.5	-25...+50	75	50 k ^{1)/100 k²⁾}	Yes	II	IP20	CE, ENEC, VDE, EMC, F, MM, EL, CCC	B-STYLE, ...TL	20
No	103x67x29.5	-25...+50	75	50 k ^{1)/100 k²⁾}	Yes	II	IP20	CE, ENEC, VDE, EMC, F, MM, EL, CCC	B-STYLE, ...TL	20
No	103x67x29.5	-25...+50	75	50 k ^{1)/100 k²⁾}	Yes	II	IP20	CE, ENEC, VDE, EMC, F, MM, EL, CCC	B-STYLE, ...TL	20
No	103x67x29.5	-25...+50	75	50 k ^{1)/100 k²⁾}	Yes	II	IP20	CE, ENEC, VDE, EMC, F, MM, EL, CCC	B-STYLE, ...TL	20
No	97x43x29.5	-20...+50	75	35 k ^{1)/50 k⁴⁾}	No	II	IP20	CE, ENEC, VDE, EMC, F, MM, CCC, EAC	D-STYLE	20
No	97x43x29.5	-20...+50	80	35 k ^{1)/50 k⁴⁾}	No	II	IP20	CE, ENEC, VDE, EMC, F, MM, CCC, EAC	D-STYLE	20
No	103x67x29.5	-20...+50	75	35 k ^{1)/50 k⁴⁾}	No	II	IP20	CE, ENEC, VDE, EMC, F, MM, CCC, EAC	B-STYLE, ...TL	20
No	110x43x29.5	-20...+50	80	35 k ^{1)/50 k⁴⁾}	No	II	IP20	CE, ENEC, VDE, EMC, F, MM, CCC		20
No	103x67x29.5	-20...+50	80	35 k ^{1)/50 k⁴⁾}	No	II	IP20	CE, ENEC, VDE, EMC, F, MM, CCC	B-STYLE, ...TL	20
No	110x43x29.5	-20...+50	80	35 k ^{1)/50 k⁴⁾}	No	II	IP20	CE, ENEC, VDE, EMC, F, MM, CCC		20
No	103x67x29.5	-20...+50	85	35 k ^{1)/50 k⁴⁾}	No	II	IP20	CE, ENEC, VDE, EMC, F, MM, CCC, EAC	B-STYLE, ...TL	20
No	103x67x29.5	-20...+50	80	35 k ^{1)/50 k⁴⁾}	No	II	IP20	CE, ENEC, VDE, EMC, F, MM, CCC	B-STYLE, ...TL	20
No	103x67x29.5	-20...+50	85	35 k ^{1)/50 k⁴⁾}	No	II	IP20	CE, ENEC, VDE, EMC, F, MM, CCC	B-STYLE, ...TL	20
No	115x45x25	-10...+50	70	30 k ¹⁾	No	II	IP20	CE, ENEC, RCM, CCC	integrated	20
No	115x45x25	-10...+50	75	30 k ¹⁾	No	II	IP20	CE, ENEC, RCM, CCC	integrated	20
No	115x45x25	-10...+45	85	30 k ¹⁾	No	II	IP20	CE, ENEC, RCM, CCC	integrated	20
No	103x67x29.5	-10...+50	75	30 k ¹⁾	No	II	IP20	CE, ENEC, RCM, CCC	integrated	20
No	103x67x29.5	-10...+50	80	30 k ¹⁾	No	II	IP20	CE, ENEC, RCM, CCC	integrated	20
No	103x67x29.5	-10...+50	80	30 k ¹⁾	No	II	IP20	CE, ENEC, RCM, CCC	integrated	20
No	103x67x29.5	-10...+50	80	30 k ¹⁾	No	II	IP20	CE, ENEC, RCM, CCC	integrated	20
No	110x75x29.5	-10...+50	85	30 k ¹⁾	No	II	IP20	CE, ENEC, RCM, CCC	integrated	20

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Phase-out Sept. 2017

Phase-out Sept. 2017

Phase-out Sept. 2017

Phase-out Sept. 2017

Phase-out Sept. 2017

Phase-out Sept. 2017



OT cable clamp
B-STYLE TL
4052899**530997**
50x67x22



Product name
OT cable clamp
D-STYLE
Product number
4052899**077904**
Dimensions (L x W x H) [mm]
38.5x33x29.5
Standard pack [pcs.]
40



Product name
OT cable clamp
E-STYLE
Product number
4052899**167896**
Dimensions (L x W x H) [mm]
38x53x25
Standard pack [pcs.]
20



Product name
OT cable clamp
F-STYLE
Product number
4052899**325555**
Dimensions (L x W x H) [mm]
39.2x53x30
Standard pack [pcs.]
20



All details on relevant guarantees (3 or 5 years) and the general requirements can be found at:
www.osram.com/guarantee



All OPTOTRONIC® OTI DALI, OTI and OT FIT constant-current LED drivers stand for a high quality of light thanks to a low ripple @ 100Hz (< 10 %)



More information on the Tuner4TRONIC® software can be found on the back and at: www.osram.com/t4t

Linear OSRAM OPTOTRONIC® constant-current LED drivers, indoor

	Product family/ Isolation	Product name	GTIN (EAN)	Nominal input volt- age [V]	Output power [W]	Output voltage [V]	Rated current [mA] ± 5%	Power factor	Efficiency (max.) [%]
High-light	DALI – SELV	OTi DALI 35/220...240/700 LT2 L	4052899 245389	220...240	4...37	20...54	200...700	> 0.95	up to 89
		1 OTi DALI 50/220...240/1A4 LT2 L	4052899 028098	220...240	12...54	20...54	600...1400	> 0.95	up to 88
		OTi DALI 80/220...240/1A6 LT2 L	4052899 028074	220...240	12...80	20...54	600...1550	> 0.95	up to 90
		OTi DALI 80/220...240/2A1 LT2 L	4052899 028050	220...240	32...80	20...54	1000...2100	> 0.95	up to 90
	DALI – „non-isolated“	2 OTi DALI 35/220...240/400 D LT2 UF L	4052899 957022	220...240	4...38	54...240	75...400	> 0.98	up to 93
		2 OTi DALI 75/220...240/700 D LT2 UF L	4052899 957046	220...240	8...75	54...240	250...700	> 0.98	up to 93
		OTi DALI 35/220...240/400 D LT2 L (G3)	4052899 494220	220...240	4...38	54...240	75...400	> 0.95	up to 92
		OTi DALI 60/220...240/550 D LT2 L (G3)	4052899 494206	220...240	6.4...60	54...240	120...550	> 0.95	up to 93
		3 OTi DALI 90/220...240/1A0 LT2 L (G3)	4052899 494268	220...240	13.5...90	54...240	250...1000	> 0.95	up to 94
	OT FIT – SELV	OT FIT 35/220...240/700 CS L	4052899 032828	220...240	13.5...35	27...54	500/600/700	> 0.95	up to 86
		OT FIT 50/220...240/1A0 CS L	4052899 032804	220...240	23...55	27...54	800/925/1050	> 0.95	up to 86
		4 OT FIT 80/220...240/1A6 CS L	4052899 032781	220...240	32...83	27...54	1200/1400/1550	> 0.95	up to 87
		OT FIT 35/220...240/700 CS L (G2)	4052899 522534	220...240	13.5...35.7	27...51	500/600/650/700	> 0.95	up to 86
		OT FIT 55/220...240/1050 CS L (G2)	4052899 522558	220...240	21.6...53.6	27...51	800/900/975/1050	> 0.95	up to 89
		OT FIT 75/220...240/1400 CS L (G2)	4052899 522572	220...240	29.7...71.4	28...51	1100/1200/1300/1400	> 0.95	up to 87
	OT FIT – „non-isolated“	5 OT FIT 35/220...240/350 D LT2 L	4052899 478411	220...240	4.1...35	54...216	75-350	> 0.95	< 92
		OT FIT 75/220...240/550 D LT2 L	4052899 478435	220...240	6.8...75	54...216	125 - 550	> 0.95	< 93
		OT FIT 120/220...240/750 D LT2 L	4052899 497900	220...240	13.5...120	54...216	250 - 750	> 0.95	< 93
	OT FIT – „non-isolated“	6 OT FIT 30/220...240/125 D L	4052899 222557	220...240	7...27	54...216	125	> 0.95	up to 90
		OT FIT 50/220...240/250 D L	4052899 222571	220...240	14...54	54...216	250	> 0.97	up to 90
		OT FIT 50/220...240/300 D L	4052899 462694	220...240	16...53	54...175	300	> 0.97	up to 90
		OT FIT 50/220...240/350 D L	4052899 222595	220...240	19...53	54...150	350	> 0.97	up to 90

360 mm x 30 mm x 21 mm



OTi DALI 50/220...240/1A4 LT2 L

360 mm x 30 mm x 11 mm



OTi DALI 75/220...240/700 D LT2 UF L

Ultraflat – 11 mm

280 mm x 30 mm x 21 mm



OTi DALI 90/220...240V/1A0 LT2 L



Tuner4TRONIC®

Software suite for OEM use to configure all programmable OPTOTRONIC®, QUICKTRONIC® and POWERTRONIC® drivers in the luminaire manufacturing process.

- Best suited for programming in luminaire manufacturing
- For quick manual as well as automatic programming
- Works with DALI magic and OT Programmer hardware
- Easily enables pre-parameterization, also when using the pre-parameterization service from OSRAM

1) At max. T_c temperature, max. failure rate of 10 %

2) Operating at 10 °C lower than max. T_c, max. failure rate of 10 %

* 1. If the LED driver complies with protection class I, it is suitable for protection class I luminaires.

2. If the LED driver complies with protection class II, it is suitable for protection class I and class II luminaires.

** Hybrid dimming *** DALI Edition 2 version, AM-Dimming

3) DC-Voltage range 176 V...276 V

4) For current status of certificates and approvals, see product datasheet online



OSRAM DALI ECGs and DALI LED drivers strictly adhere to the DALI standard. They are compatible with control gears and BUS systems from established providers.



Touch DIM® LS/PD LI sensors implement presence- and daylight-dependent lighting control without an additional control unit.



OSRAM DALI control gears ensure optimum operation by monitoring energy consumption, lamp/module burn time, overvoltage and ECG operating temperature.

Ripple (100 Hz) [%]	Dimmable	Dimensions (L x W x H) [mm]	Ambient temperature range [°C]	T _c max. [°C]	Lifetime [h]	EL Emergency Lighting ³⁾	Protection class*	IP protection	Certificates & approvals ⁴⁾	Standard pack [pcs.]
< 1	DALI**	360x30x21	-25...+60	75	50 k ¹⁾ /100 k ²⁾	Yes	I	IP20	CE, ENEC, VDE, EMC, EL, CCC	20
< 1	DALI**	360x30x21	-25...+50	75	50 k ¹⁾ /100 k ²⁾	Yes	I	IP20	CE, ENEC, VDE, EMC, EL, CCC	20
< 1	DALI**	360x30x21	-25...+50	80	50 k ¹⁾ /100 k ²⁾	Yes	I	IP20	CE, ENEC, VDE, EMC, EL, CCC	20
< 1	DALI**	360x30x21	-25...+50	80	50 k ¹⁾ /100 k ²⁾	Yes	I	IP20	CE, ENEC, VDE, EMC, EL, CCC	20
≤ 1	DALI***	360x30x11	-25...+60	75	50 k ¹⁾ /100 k ²⁾	Yes	I	IP20	CE, ENEC, VDE, EMC	20
≤ 1	DALI***	360x30x11	-25...+50	75	50 k ¹⁾ /100 k ²⁾	Yes	I	IP20	CE, ENEC, VDE, EMC	20
≤ 1	DALI***	280x30x21	-25...+60	75	50 k ¹⁾ /100 k ²⁾	Yes	I	IP20	CE, ENEC, VDE, EMC, EL, EAC	20
≤ 1	DALI***	280x30x21	-25...+60	75	50 k ¹⁾ /100 k ²⁾	Yes	I	IP20	CE, ENEC, VDE, EMC, EL	20
≤ 1	DALI***	280x30x21	-25...+50	75	50 k ¹⁾ /100 k ²⁾	Yes	I	IP20	CE, ENEC, VDE, EMC, EL	20
< 10	No	280x30x21	-25...+50	75	50 k ¹⁾ /100 k ²⁾	Yes	I	IP20	CE, ENEC, VDE, EMC, EL, CCC	20
< 10	No	280x30x21	-25...+50	75	50 k ¹⁾ /100 k ²⁾	Yes	I	IP20	CE, ENEC, VDE, EMC, EL, CCC	20
< 10	No	360x30x21	-25...+50	75	50 k ¹⁾ /100 k ²⁾	Yes	I	IP20	CE, ENEC, VDE, EMC, EL, CCC	20
< 5	No	280x30x21	-25...+50	80	50 k ¹⁾ /100 k ²⁾	Yes	I	IP20	CE, ENEC, VDE, EMC, EL	20
< 5	No	280x30x21	-25...+50	80	50 k ¹⁾ /100 k ²⁾	Yes	I	IP20	CE, ENEC, VDE, EMC, EL	20
< 5	No	280x30x21	-25...+50	80	50 k ¹⁾ /100 k ²⁾	Yes	I	IP20	CE, ENEC, VDE, EMC, EL	20
≤ 1	No	280x30x21	-25...+60	75	50 k ¹⁾ /100 k ²⁾	Yes	I	IP20	CE, ENEC, VDE, EMC, EL	20
≤ 1	No	280x30x21	-25...+60	75	50 k ¹⁾ /100 k ²⁾	Yes	I	IP20	CE, ENEC, VDE, EMC, EL	20
≤ 1	No	360x30x21	-25...+60	75	50 k ¹⁾ /100 k ²⁾	Yes	I	IP20	CE, ENEC, VDE, EMC, EL	20
< 10	No	210x30x21	-15...+50	75	50 k ¹⁾ /100 k ²⁾	Yes	I	IP20	CE, ENEC, VDE, EMC, EL, CCC	20
< 10	No	210x30x21	-15...+50	75	50 k ¹⁾ /100 k ²⁾	Yes	I	IP20	CE, ENEC, VDE, EMC, EL, CCC	20
< 10	No	210x30x21	-15...+50	75	50 k ¹⁾ /100 k ²⁾	Yes	I	IP20	CE, ENEC, VDE, EMC, EL, CCC	20
< 10	No	210x30x21	-15...+50	75	50 k ¹⁾ /100 k ²⁾	Yes	I	IP20	CE, ENEC, VDE, EMC, EL, CCC	20

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360 mm x 30 mm x 21 mm



OT FIT 80/220...240/1A6 CS L

280 mm x 30 mm x 21 mm



OT FIT 35/220...240/350 D LT2 L

210 mm x 30 mm x 21 mm



OT FIT 50/220...240 D L



In all OSRAM DALI ECGs a directly adjustable lighting profile defines the extent to which brightness values are retained when a person leaves the room.



Due to this function, OSRAM DALI control gears automatically detect DC voltage. When DC voltage is detected, a certain luminous flux is implemented (emergency light).



All details on relevant guarantees (3 or 5 years) and the general requirements can be found at:
www.osram.com/guarantee



With this function, up to 20 DALI ECGs can easily be switched and dimmed by standard push-buttons.



The activated CLO function enables constant luminous flux over the complete LED lifetime. This also saves power and protects the LED modules.



All OPTOTRONIC® OTi DALI, OTi and OT FIT constant-current LED drivers stand for a high quality of light thanks to a low ripple @ 100 Hz (< 10 %).



Amplitude dimming technology enables mobile-camera-friendly dimming from 100 % to 1 % with lowest current ripple

OPTOTRONIC® constant-current LED drivers, outdoor

Product family	Product name	GTIN (EAN)	Nominal input voltage [V]	Output power [W]	Output voltage [V]	Type of isolation	Rated current [mA] ± 5 %	Power factor	Efficiency (max.) [%]	Ripple (100Hz) [%]
OT 4DIMLT2 E	OT 40/120...277/1A0 4DIMLT2 E	40528999 925182	120...277	7...40	18...56	SELV	350...1050	> 0.95	88.5	< 15
	OT 60/170...240/1A0 4DIMLT2 E	40528999 925199	220...240	11...60	30...115	SELV	350...1050	> 0.95	90.5	< 15
	OT 90/170...240/1A0 4DIMLT2 E	40528999 925205	220...240	20...90	57...186	Double	350...1050	> 0.95	91.5	< 15
	OT 165/170...240/1A0 4DIMLT2 E	40528999 925212	220...240	32...165	90...285	Double	350...1050	> 0.95	92.0	< 15
OT 2DIMLT2	OT 50/120...277/800 2DIMLT2 P	40528999 173781	120...277	11...50	30...115	SELV	350...800	> 0.95	86.0	< 30
	OT 50/120...277/1A2 2DIMLT2 P	40528999 173804	120...277	12...50	20...55	SELV	600...1250	> 0.95	86.0	< 30
	OT 100/120...277/800 2DIMLT2 P	40528999 253414	120...277	45...100	50...186	Double	350...800	> 0.95	90.0	< 25
	OT 110/120...277/1A4 2DIMLT2 P	40528999 253438	120...277	45...110	35...85	SELV	600...1400	> 0.95	90.0	< 25
OT	OT 50/120...277/700 P5	40528999 259003	120...277	17...50	24...74	SELV	700	> 0.95	≥ 87.0	< 30
	OT 100/120...277/700 P5	40528999 259065	120...277	50...100	55...152	Double	700	> 0.95	90.0	< 30
	OT 180/120...277/700 P5	40528999 259027	120...277	80...180	115...257	Basic	700	> 0.95	90.0	< 30
	OT 250/120...277/700 P5	40528999 259041	120...277	125...250	180...357	Basic	700	> 0.95	92.0	< 30
OT (high current)	OT 100/220...240/4A2 P5	40528999 410657	220...240	24...100	24...48	SELV	2100...4200	> 0.99	88.0	< 25
	OT 150/220...240/4A9 P5	40528999 410671	220...240	60...150	30...60	SELV	2450...4900	> 0.98	90.0	< 25
	OT 200/220...240/5A6 P5	40528999 410695	220...240	70...200	35...70	SELV	2800...5600	> 0.98	91.0	< 25



OPTOTRONIC® 4DIM/DALI Constant current, programmable

- 4DIM functionality in one device (StepDIM, AstroDIM, MainsDIM, DALI)
- Very high efficiency and reliability
- High surge protection: up to 8kV (protection class I or II)
- Great flexibility due to wide operating temperature range of -40...55 or 60 °C
- Vibration- and humidity-protected (varnished, IP20)
- Output current range: up to 1,050 mA
- Flexible current setting with multivendor LEDset2 interface (plug & play)
- Isolated DALI interface for bidirectional telemanagement systems
- Constant lumen function
- Overtemperature protection via external NTC and LEDset2 interface
- Suitable for protection class I and II luminaires

1) At max. T_c temperature, max. failure rate of 10 %

2) Operating at 13 °C lower than max. T_c, max. failure rate of 10 %

3) Operating at 15 °C lower than max. T_c, max. failure rate of 10 %

4) Operating at 10 °C lower than max. T_c, max. failure rate of 10 %

5) For current status of certificates and approvals, see product datasheet online

* 1. If the LED driver complies with protection class I, it is suitable for protection class I luminaires.

2. If the LED driver complies with protection class II, it is suitable for protection class I and class II luminaires.

Dimmable	Dimensions (L x W x H) [mm]	Ambient temperature range [°C]	T _c max. [°C]	Lifetime [h]	DC-com- patible	Protec- tion class *	IP pro- tection	Certificates & approbations ⁵⁾	Standard pack [pcs.]
4DIM DALI/StepDIM/AstroDIM/MainsDIM	123 x 79 x 33	-40...+60	80	50 k ¹⁾ /100 k ²⁾	Yes	I/II	IP20	CE/ENEC/UR/VDE/VDE-EMC/CCC	20
4DIM DALI/StepDIM/AstroDIM/MainsDIM	133 x 77 x 40	-40...+60	85	50 k ¹⁾ /100 k ²⁾	Yes	I/II	IP20	CE/ENEC/UR/VDE/VDE-EMC/CCC	20
4DIM DALI/StepDIM/AstroDIM/MainsDIM	133 x 77 x 40	-40...+55	90	50 k ¹⁾ /100 k ²⁾	Yes	I/II	IP20	CE/ENEC/UR/VDE/VDE-EMC/CCC	20
4DIM DALI/StepDIM/AstroDIM/MainsDIM	170 x 100 x 40	-40...+55	85	50 k ¹⁾ /100 k ²⁾	Yes	I/II	IP20	CE/ENEC/UR/VDE/VDE-EMC/CCC	20
2DIM 1-10V/AstroDIM	168 x 50 x 30	-40...+55	85	50 k ¹⁾ /100 k ³⁾	–	I/II	IP64	CE/ENEC/UR/CCC	20
2DIM 1-10V/AstroDIM	168 x 50 x 30	-40...+55	80	50 k ¹⁾ /100 k ³⁾	–	I/II	IP64	CE/ENEC/UR/CCC	20
2DIM 1-10V/AstroDIM	168 x 68 x 38	-40...+55	85	50 k ¹⁾ /100 k ³⁾	–	I/II	IP64	CE/ENEC/UR/CCC	20
2DIM 1-10V/AstroDIM	168 x 68 x 38	-40...+55	85	50 k ¹⁾ /100 k ³⁾	–	I/II	IP64	CE/ENEC/UR/CCC	20
No	168 x 50 x 30	-40...+55	80	50 k ¹⁾ /80 k ⁴⁾	–	I	IP65	CE, CCC	20
No	168 x 60 x 39	-40...+55	85	50 k ¹⁾ /80 k ⁴⁾	–	I	IP65	CE, CCC	20
No	251 x 60 x 38	-40...+55	90	50 k ¹⁾ /80 k ⁴⁾	–	I	IP65	CE, CCC	20
No	267 x 89 x 55	-40...+50	75	50 k ¹⁾ /80 k ⁴⁾	–	I	IP65	CE, CCC	20
No	212.5 x 68 x 42.5	-40...+55	85	50 k ¹⁾ /100 k ⁴⁾	–	I	IP65	CE, CCC	10
No	242.5 x 68 x 42.6	-40...+55	85	50 k ¹⁾ /100 k ⁴⁾	–	I	IP65	CE, CCC	10
No	252.5 x 68 x 42.6	-40...+50	85	50 k ¹⁾ /100 k ⁴⁾	–	I	IP65	CE, CCC	10

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OPTOTRONIC® 2DIM/0-10 V LED (IP64)

Constant current, programmable

- 2DIM functionality in one device (AstroDIM, 0-10 V)
- High efficiency and reliability
- High surge protection: up to 6 kV (protection class I or II)
- Great flexibility due to wide operating temperature range of -40...+55 °C
- High ingress protection (IP64)
- Output current range: up to 1,400 mA
- Fast programming without mains voltage
- Flexible current setting with multivendor LEDset2 interface (plug & play)
- Isolated 0-10 V interface for unidirectional telemanagement systems
- Constant lumen function
- Overtemperature protection with external NTC or LEDset2 interface
- Suitable for luminaires of protection classes I and II



OPTOTRONIC® ON/OFF (IP65)

Constant current

- High efficiency and reliability
- High surge protection: up to 6 kV (protection class I)
- Great flexibility due to wide operating temperature range of -40...+55 °C (OT 200...-40...+50 °C)
- High ingress protection (IP65)
- Integrated overtemperature protection

Disclaimer:

For complete electrical information, please refer to the individual data sheet.



More information on the Tuner4TRONIC® software can be found on the back and at:
www.osram.com/t4t

OSRAM constant-voltage LED drivers (24V/12V)

Application area	Product name	GTIN (EAN)	Nominal input voltage [V]	Max. out-put power [W]	Output power voltage [V]	Rated current [mA] ± 5 %	Power factor	Efficiency (max.) [%]	Dimmable
Indoor	OT 20/220...240/24	4050300 618111	220...240	20	24	0.83	0.8	83	No
	1 OT 50/220...240/24	4052899 905566	220...240	50	24	2.08	0.95	85	No
	OT 75/220...240/24	4050300 817477	220...240	75	24	3.13	0.97	90	No
	2 OTi DALI 50/220...240/24 1...4 CH	4052899 452916	220...240	50	24	2.08	0.98	92	DALI
	OTi DALI 80/220...240/24 1...4 CH	4052899 452893	220...240	80	24	3.33	0.98	93	DALI
	OTi DALI 50/220...240/24 TW	4052899 490772	220...240	50	24	2.08	0.98	92	DALI DT8 ⁴⁾
	OTi DALI 80/220...240/24 TW	4052899 490758	220...240	80	24	3.33	0.98	98	DALI DT8 ⁴⁾
	3 OTi DALI DIM	400832 1061195	10...24	120	10...24	5...10	–	97	DALI
	OT DMX RGB DIM	400832 1160829	10...24	144	10...24	6...12	–	97	DMX
	OT DIM	4050300 943459	10...24	120	10...24	5...10	–	96	1...10V
	4 ELEMENT 30/220...240/24	4052899 463776	220...240	30	24	1.25	> 0.9	86	No
	ELEMENT 60/220...240/24	4052899 463790	220...240	60	24	2.50	> 0.9	86	No
	ELEMENT 90/220...240/24	4052899 463813	220...240	90	24	3.75	> 0.9	87	No
Outdoor	OT 80/220...240/24 DIM P	400832 1981677	220...240	80	24	3.33	0.95	87	1...10V
	OT 120/220...240/24 DIM P	400832 1981691	220...240	120	24	5.00	0.95	89	1...10V
	OT 240/220...240/24 DIM P	400832 1981714	220...240	240	24	10.00	0.95	92	1...10V
	5 OT 6/200...240/24 CE	400832 1113269	200...240	6	24	0.25	0.98	80	No
	OT 30/220...240/24 P	4052899 043497	220...240	30	24	1.25	0.98	85	No
	OT 50/220...240/24 P	4052899 043510	220...240	50	24	2.08	0.98	86	No
	OT 75/220...240V/24 E	400832 362476	220...240	75	24	3.13	0.95	89	No
	6 OT 80/220...240/24 P	400832 1981684	220...240	80	24	3.33	0.95	87	No
	OT 120/220...240/24 P	400832 1981707	220...240	120	24	5.00	0.95	90	No
	OTe 120/220...240/24 E	400832 1645715	220...240	120	24	5.00	0.95	90	No
	OT 240/220...240/24 P	400832 1981721	220...240	240	24	10.00	0.95	93	No
	OT 60/220...240/12 DIM P	4052899 947054	220...240	60	12	5.00	> 0.98	86	1...10V
	7 OT 15/220...240/12 P	4052899 905559	220...240	15	12	1.25	> 0.5	80	No
	OT 30/220...240/12 P	4052899 905542	220...240	30	12	2.50	> 0.95	85	No
	OT 60/220...240/12 P	400832 1790811	220...240	60	12	5.00	> 0.98	86	No
	OT 120/220...240/12 P	400832 1790835	220...240	120	12	10.00	0.98	88	No
	OTe 60/110...277/12 E	400832 1794338	110...277	60	12	5.00	> 0.95	≥ 85	No
	8 OTe 120/110...277/12 E	400832 1821263	110...277	120	12	10.00	> 0.95	≥ 85	No



OT 50/220...240/24



OTi DALI 50/220...240/24 1...4 CH



OTi DALI DIM



ELEMENT 30/220...240/24



OT 6/200...240/24 CE



Tuner4TRONIC®

Software suite for OEM use to configure all programmable OPTOTRONIC®, QUICKTRONIC® and POWERTRONIC® drivers in the luminaire manufacturing process.

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- For quick manual as well as automatic programming
- Works with DALI magic and OT Programmer hardware
- Easily enables pre-parameterization, also when using the pre-parameterization service from OSRAM

Find more product-specific information at:

- OPTOTRONIC®: www.osram.com/optotronic
- LEDset: www.osram.com/ledset
- DALI: www.osram.com/dali
- Tuner4TRONIC®: www.osram.com/t4t

1) At max. T_c temperature, max. failure rate of 10 %

2) Operating at 10 °C lower than max. T_c, max. failure rate of 10 %

* 1. If the LED driver complies with protection class I, it is suitable for protection class I luminaires.

2. If the LED driver complies with protection class II, it is suitable for protection class I and class II luminaires.

3) For current status of certificates and approvals, see product datasheet online

4) Device Type Eight

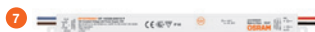
Dimensions (L x W x H) [mm]	Ambient temperature range [°C]	T _c max. [°C]	Lifetime [h]	Protec- tion class*	IP pro- tection	Certificates & approbations ³⁾	Standard pack [pcs.]
109x50x35	-20...+45	70	30 k ¹⁾ /50 k ²⁾	II	IP20	CE, ENEC, VDE, VDE, EMC, RCM	20
242x40x16	-20...+45	95	30 k ¹⁾ /50 k ²⁾	II	IP20	CE, ENEC, CB, RCM, MM	20
220x46.2x43.6	-20...+50	80	30 k ¹⁾ /50 k ²⁾	II	IP20	CE, ENEC, VDE, VDE, EMC, RCM, EAC	10
346x32x22	-20...+45	70	30 k ¹⁾ /50 k ²⁾	II	IP20	CE, ENEC 10, VDE, VDE-EMC, RCM, EAC, CCC, BIS	20
346x32x22	-20...+45	75	30 k ¹⁾ /50 k ²⁾	II	IP20	CE, ENEC 10, VDE, VDE-EMC, RCM, EAC, CCC, BIS	20
346x32x22	-20...+45	70	30 k ¹⁾ /50 k ²⁾	II	IP20	CE, ENEC 10, VDE, VDE-EMC, RCM, EAC, CCC, BIS	20
346x32x22	-20...+45	75	30 k ¹⁾ /50 k ²⁾	II	IP20	CE, ENEC 10, VDE, VDE-EMC, RCM, EAC, CCC, BIS	20
172x42x20	-20...+50	60	30 k ¹⁾ /50 k ²⁾	II	IP20	CE, RCM, EAC, UR	20
172x42x20	-20...+50	80	30 k ¹⁾ /50 k ²⁾	II	IP20	CE, RCM, UR	20
172x42x20	-20...+50	80	30 k ¹⁾ /50 k ²⁾	II	IP20	CE/UR/VDE/VDE-EMC	20
140x45x28	-20...+45	85	30 k ¹⁾ /50 k ²⁾	II	IP20	CE, CB	20
239x46x30	-20...+50	85	30 k ¹⁾ /50 k ²⁾	II	IP20	CE, CB	20
230x60x35	-20...+50	85	30 k ¹⁾ /50 k ²⁾	II	IP20	CE, CB	20
250x50x34	-25...+55	80	30 k ¹⁾ /50 k ²⁾	II	IP67	CE, ENEC, CB, MM, RCM, EAC, BIS	10
250x60x39	-25...+55	80	30 k ¹⁾ /50 k ²⁾	I	IP67	CE, ENEC, CB, MM, RCM, EAC, BIS	10
250x80x39	-25...+55	80	30 k ¹⁾ /50 k ²⁾	I	IP67	CE, ENEC, CB, MM, RCM, EAC, BIS	8
51x50x22	-20...+50	70	30 k ¹⁾ /50 k ²⁾	II	IP65	CE, ENEC, VDE, CB	50
220x40x22	-25...+55	80	30 k ¹⁾ /50 k ²⁾	II	IP66	CE, ENEC, CB, RCM, BIS	30
220x40x22	-25...+55	90	30 k ¹⁾ /50 k ²⁾	II	IP66	CE, ENEC, CB, RCM	30
241x43x30	-20...+60	85	30 k ¹⁾ /50 k ²⁾	I	IP64	CE, ENEC, VDE, VDE, EMC, CB, RCM	10
250x50x34	-25...+55	80	30 k ¹⁾ /50 k ²⁾	II	IP67	CE, ENEC, CB, MM, RCM, EAC, BIS	10
250x60x39	-25...+55	80	30 k ¹⁾ /50 k ²⁾	I	IP67	CE, ENEC, CB, MM, RCM, EAC, BIS	10
258x51x45	-10...+50	70	30 k ¹⁾ /50 k ²⁾	I	IP64	CE, CB, CCC, BIS	10
250x80x39	-25...+55	80	30 k ¹⁾ /50 k ²⁾	I	IP67	CE, ENEC, CB, MM, RCM, EAC, BIS	8
211x50x34	-30...+50	75	30 k ¹⁾ /50 k ²⁾	II	IP67	CE, ENEC, CB, EAC	10
237x20x22	-25...+55	80	30 k ¹⁾ /50 k ²⁾	II	IP66	CE, ENEC, CB, CCC, EAC	50
220x40x22	-25...+55	80	30 k ¹⁾ /50 k ²⁾	II	IP66	CE, ENEC, CB, CCC, RCM, EAC, BIS	30
180x50x34	-25...+55	80	30 k ¹⁾ /50 k ²⁾	II	IP67	CE, ENEC, CB, CCC, RCM, EAC, BIS	10
241x60x39	-25...+55	80	30 k ¹⁾ /50 k ²⁾	I	IP67	CE, ENEC, CB, CCC, RCM, EAC, BIS	10
241x43x30	-25...+55	80	30 k ¹⁾ /50 k ²⁾	I	IP64	CE, CB, CCC, MM, BIS	10
258x51.2x44.5	-25...+55	80	30 k ¹⁾ /50 k ²⁾	I	IP64	CE, CB, CCC, MM, BIS	10

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OT 240/220...240/24 P



OT 15/220...240/12 P



OTe 120/110-277/12 E



All details on relevant guarantees (3 or 5 years)
and the general requirements can be found at:
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