



October  
2018

Light is reliable

OPTOTRONIC® LED drivers for  
indoor and outdoor applications

Flexible and versatile constant-current and constant-voltage drivers

Light is OSRAM

**OSRAM**





OSRAM OPTOTRONIC® LED drivers:

## Multifaceted and flexible: effective LED lighting for your success

Whether it's innovative or classic design, constant current or constant voltage, DALI-2 or 1...10V, indoor or outdoor lighting – we have the LED driver to meet your needs. The diverse OPTOTRONIC® portfolio from OSRAM Digital Lighting Systems has the optimum solution for an extremely broad range of requirements, bringing you energy-saving LED applications with high light quality, long operating life and exceptional reliability.

### Greater design flexibility for more compact luminaires: OSRAM OPTOTRONIC® Compact constant-current LED drivers

Due to the general trend toward miniaturization in lighting, today's customers want ever smaller luminaires, but no compromise on performance. Our compact LED drivers give you more options and greater flexibility, particularly for LED spotlights and downlights. They can easily be retrofitted with cable clamps at any time.

#### The most important novelties:

- OTi DALI LED driver with NFC interface for mains-voltage-free programming
- OTi DALI 10/700 NFC; short, 31 x 21 mm slim DALI driver, 2.5V...45V
- OT FIT LED drivers suitable for emergency lighting, with a height of only 22.5 mm (LP version), with EL quality label

The following overviews provide decision-relevant data regarding driver output power, efficiency, permissible number of drivers on a 16 A (type B) automatic circuit breaker, current ripple, lifetime, EL compatibility or cable clamp installation.

All OPTOTRONIC® LED drivers and details can be found at: [www.osram.com/optotronic](http://www.osram.com/optotronic)

### Fully in line with the current market requirements:

#### OSRAM OPTOTRONIC® Linear constant-current LED drivers

Our linear LED drivers are perfect for a wide range of luminaires and lighting applications, especially in office and industrial scenarios.

#### The most important novelties:

- Tunable White constant-current DALI LED drivers (DT8) for HCL and Tunable White applications
- Long-life, reliable DALI industry drivers with a product guarantee of 8 years
- DEXAL LED drivers with easy and cost-efficient interface for the connection of various sensors and radio modules, allowing for the exchange of luminaire-relevant data
- ON/OFF SELV LED driver family OT FIT 25 to 75 W, four currents selectable
- Low-cost linear ELEMENT LED drivers as SELV and non-isolated version from 18 to 60 W

#### Other novelties:

- Upgrade of OTi DALI 35...90 (G3) with higher efficiency, DALI-2 standard, AM dimming and reduced inrush current
- Many of the new drivers can be programmed easily without mains voltage via NFC interface
- All new and upgraded drivers allow amplitude dimming across the entire dimming range

#### High level of functionality:

#### OSRAM OPTOTRONIC® Outdoor LED drivers

We supply particularly efficient and robust LED drivers for your luminaires and lighting applications in outdoor areas, with flexible current settings. Tailored to your needs and easy to install!

#### Important updates of the range:

- **New:** OT 4DIMLT2 G2 – can be programmed via NFC with Tuner4TRONIC® Field app, up to 8 kV, Driver Guard, suitable for emergency lighting, EL quality label
- **New:** OT 1DIMLT2 G1 – can be programmed via NFC with Tuner4TRONIC® Field app, up to 10 kV, Driver Guard
- General: with all new OPTOTRONIC® outdoor families, the current ripple is less than 5 %

#### Smart efficiency modification:

#### OSRAM OPTOTRONIC® constant-voltage LED drivers

LED drivers with an output voltage of 12 V and 24 V are the perfect choice for implementing modular and flexibly scalable LED systems.

#### The most important novelties:

- 24 V OTi DALI, 50/80 W, device type 6, 1-4 channel, and OTi DALI 160/220-240/24 1-2 CH
- 24 V OTi DALI ... TW, 50/80/160 W, DALI Version-1 and DT8 for Tunable White and HCL applications
- 1...4 channel dimmer OT BLE DIM 12-24 with Bluetooth interface, for Casambi control software
- Two new OPTOTRONIC® Outdoor 24 V families:
  - Dimmable 1...10 V – OT 20/40/60/100/250 DIM P
  - ON/OFF – OT 20/40/60/100/250 P





Compact OSRAM OPTOTRONIC® 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	Max. ECG no. on circuit breaker 16A (B) <sup>5)</sup> [%]	Efficiency (max.) [%]	Ripple (100Hz) [%]	Dimmable	Dimensions (LxWxH) [mm]	Ambient temperature range [°C]	T <sub>c</sub> max. [°C]	Lifetime [h]	EL Emergency Lighting <sup>3)</sup>	Protection class*	IP protection	Certificates & approvals <sup>4)</sup>	Cable clamp kit	Standard pack [pcs.]
	DALI SELV	OTI DALI 10/220...240/700 NFC	4052899562639	220...240	1.5...10	2.5...45	150...700	> 0.95	130	up to 82	< 1	DALI-2	124x31x21	-20...+50	75	50k <sup>1)/100k<sup>2)</sup></sup>	Yes	II	IP20	CE, ENEC, VDE, EMC, MM, EL, CCC (in prep.)	N-STYLE (in prep.)	20
		OTI DALI 15/220...240/1A0 LT2 NFC	4052899548190	220...240	3...18	7.5...54	150...1050	> 0.95	130	up to 88	< 1	DALI-2	95x53x30	-20...+50	75	50k <sup>1)/100k<sup>2)</sup></sup>	Yes	II	IP20	CE, ENEC, VDE, EMC, MM, EL, CCC (in prep.)	F-STYLE	20
		OTI DALI 25/220...240/700 LT2 NFC	4052899548213	220...240	7...27	12...54	180...700	> 0.95	80	up to 88	< 1	DALI-2	103x67x29.5	-20...+50	75	50k <sup>1)/100k<sup>2)</sup></sup>	Yes	II	IP20	CE, ENEC, VDE, EMC, MM, EL, CCC (in prep.)	B-STYLE, ...TL	20
		OTI DALI 35/220...240/1A0 LT2 NFC	4052899548237	220...240	15...35	15...54	350...1050	> 0.95	55	up to 88	< 1	DALI-2	103x67x29.5	-20...+50	75	50k <sup>1)/100k<sup>2)</sup></sup>	Yes	II	IP20	CE, ENEC, VDE, EMC, MM, EL, CCC (in prep.)	B-STYLE, ...TL	20
		OTI DALI 50/220...240/1A4 LT2F NFC	4052899548251	220...240	22...55	15...54	600...1400	> 0.95	20	up to 92	< 1	DALI-2	110x75x25	-20...+50	80	50k <sup>1)/100k<sup>2)</sup></sup>	Yes	II	IP20	CE, ENEC, VDE, EMC, EL, CCC (in prep.)	A-STYLE, ...TL	20
		OTI DALI 15/220...240/1A0 LT2	4052899324879	220...240	3...18	7.5...54	150...1050	> 0.95	130	up to 88	< 1	DALI-1	95x53x30	-20...+50	75	50k <sup>1)/100k<sup>2)</sup></sup>	Yes	II	IP20	CE, ENEC, VDE, EMC, MM, EL, CCC, BIS	F-STYLE	20
		OTI DALI 25/220...240/700 LT2	4052899488144	220...240	7...27	12...54	180...700	> 0.95	80	up to 88	< 1	DALI-2	103x67x29.5	-20...+50	75	50k <sup>1)/100k<sup>2)</sup></sup>	Yes	II	IP20	CE, ENEC, VDE, EMC, MM, EL, CCC, EAC, BIS	B-STYLE, ...TL	20
		OTI DALI 35/220...240/1A0 LT2	4052899488168	220...240	15...35	15...54	350...1050	> 0.95	55	up to 88	< 1	DALI-2	103x67x29.5	-20...+50	75	50k <sup>1)/100k<sup>2)</sup></sup>	Yes	II	IP20	CE, ENEC, VDE, EMC, MM, EL, CCC, EAC, BIS	B-STYLE, ...TL	20
	Phase-cut (PC) SELV	OTe 10/220...240/700 PC	4052899105300	220...240	5...10	7...14	700	> 0.95	160	up to 79	35	Phase-cut	95x53x25	-20...+55	80	35k <sup>1)/50k<sup>2)</sup></sup>	No	II	IP20	CE, ENEC, VDE, F, MM, CCC	E-STYLE	20
		OTe 13/220...240/350 PC	4052899105324	220...240	6.5...13.5	18...38	350	> 0.95	130	up to 82	25	Phase-cut	95x53x25	-20...+55	85	35k <sup>1)/50k<sup>2)</sup></sup>	No	II	IP20	CE, ENEC, VDE, F, MM, CCC	E-STYLE	20
		OTe 18/220...240/350 PC	4052899105348	220...240	9.5...19	27...54	350	> 0.95	84	up to 84	< 35	Phase-cut	95x53x30	-20...+55	75	35k <sup>1)/50k<sup>2)</sup></sup>	No	II	IP20	CE, ENEC, VDE, F, MM, CCC	E-STYLE	20
		OTe 18/220...240/500 PC	4052899105362	220...240	9...18	18...36	500	> 0.95	84	up to 84	< 35	Phase-cut	95x53x30	-20...+55	75	35k <sup>1)/50k<sup>2)</sup></sup>	No	II	IP20	CE, ENEC, VDE, F, MM, CCC	E-STYLE	20
		OTe 25/220...240/700 PC	4052899105386	220...240	12.5...25	18...36	700	> 0.95	65	up to 85	< 35	Phase-cut	95x53x30	-20...+50	75	35k <sup>1)/50k<sup>2)</sup></sup>	No	II	IP20	CE, ENEC, VDE, F, MM, CCC	E-STYLE	20
		OTe 35/220...240/700 PC	4008321825520	220...240	19...35	27...50	700	> 0.95	50	up to 85	< 35	Phase-cut	153x54x36	-20...+45	75	35k <sup>1)/50k<sup>2)</sup></sup>	No	II**	IP20	CE, ENEC, VDE, F, MM, CCC	cable clamp included	10
	OT FIT LT2 LP SELV (Window) Low profile	OT FIT 15/220...240/500 LT2 LP	4052899490673	220...240	4.5...17.5	15...50	150...500	> 0.95	60	up to 84	< 5	No	103x67x22.5	-20...+50	75	50k <sup>1)/100k<sup>2)</sup></sup>	Yes	II	IP20	CE, ENEC, VDE, EMC, F, MM, EL, CCC	B-STYLE LP TL	20
		OT FIT 25/220...240/700 LT2 LP	4052899490697	220...240	8...26.5	15...50	300...700	> 0.95	30	up to 86	< 5	No	103x67x22.5	-20...+50	75	50k <sup>1)/100k<sup>2)</sup></sup>	Yes	II	IP20	CE, ENEC, VDE, EMC, F, MM, EL, CCC	B-STYLE LP TL	20
		OT FIT 40/220...240/1A0 LT2 LP	4052899490734	220...240	13...40	15...50	500...1050	> 0.97	30	up to 87	< 5	No	103x67x22.5	-20...+45	75	50k <sup>1)/100k<sup>2)</sup></sup>	Yes	II	IP20	CE, ENEC, VDE, EMC, F, MM, EL, CCC	B-STYLE LP TL	20
	OT FIT LT2 SELV (Window)	OT FIT 15/220...240/500 LT2 S	4052899956995	220...240	4.5...17.5	15...50	150...500	> 0.95	60	up to 84	< 1	No	97x43x29.5	-20...+50	75	50k <sup>1)/100k<sup>2)</sup></sup>	No	II	IP20	CE, ENEC, VDE, EMC, RCM, CCC	D-STYLE	20
		OT FIT 25/220...240/700 LT2 S	4052899957008	220...240	8...26.5	15...50	300...700	> 0.95	30	up to 86	< 1	No	97x43x29.5	-20...+50	75	50k <sup>1)/100k<sup>2)</sup></sup>	No	II	IP20	CE, ENEC, VDE, EMC, RCM, CCC	D-STYLE	20
		OT FIT 40/220...240/1A0 LT2 S	4052899957015	220...240	13...40	15...50	500...1050	> 0.97	30	up to 87	< 1	No	97x43x29.5	-20...+40	75	50k <sup>1)/100k<sup>2)</sup></sup>	No	II	IP20	CE, ENEC, VDE, EMC, RCM, CCC	D-STYLE	20
	OT FIT CS G2 SELV (DIP switch)	OT FIT 20/220...240/500 CS G2	4052899435612	220...240	6.5...21	25...42	250/350/450/500	0.98	50	up to 87	< 5	No	97x43x29.5	-20...+50	80	50k <sup>2)</sup>	No	II	IP20	CE, ENEC, RCM, CCC	D-STYLE	20
		OT FIT 30/220...240/700 CS G2	4052899435636	220...240	11.5...29.4	23...42	500/600/650/700	0.98	25	up to 89	< 5	No	97x43x29.5	-20...+50	80	50k <sup>2)</sup>	No	II	IP20	CE, ENEC, RCM, CCC	D-STYLE	20
		OT FIT 40/220...240/1A0 CS G2	4052899435650	220...240	20...44	25...42	800/900/950/1050	0.98	25	up to 90	< 5	No	97x43x29.5	-20...+50	80	50k <sup>2)</sup>	No	II	IP20	CE, ENEC, RCM, CCC	D-STYLE	20
	ELEMENT SELV	ELEMENT LD 8/220...240/180	4052899947078	220...240	4...8	21...42	180	0.85	80	up to 88	< 40	No	115x45x25	-10...+50	70	30k <sup>1)</sup>	No	II	IP20	CE, ENEC, RCM, CCC	integrated	20
		ELEMENT LD 15/220...240/350	4052899947085	220...240	7.4...14.7	21...42	350	0.95	50	> 87	< 40	No	115x45x25	-10...+50	75	30k <sup>1)</sup>	No	II	IP20	CE, ENEC, RCM, CCC	integrated	20
		ELEMENT LD 20/220...240/500	4052899947092	220...240	11...21	21...42	500	0.98	60	> 87	< 40	No	115x45x25	-10...+45	85	30k <sup>1)</sup>	No	II	IP20	CE, ENEC, RCM, CCC	integrated	20
		ELEMENT LD 30/220...240/700	4052899947108	220...240	15...30	21...42	700	0.98	40	> 90	< 40	No	103x67x29.5	-10...+50	75	30k <sup>1)</sup>	No	II	IP20	CE, ENEC, RCM, CCC	integrated	20
		ELEMENT LD 38/220...240/900	4052899947115	220...240	19...38	21...42	900	0.98	30	> 90	< 40	No	103x67x29.5	-10...+50	80	30k <sup>1)</sup>	No	II	IP20	CE, ENEC, RCM, CCC	integrated	20
		ELEMENT LD 45/220...240/1A0	4052899947122	220...240	22...45	21...42	1050	0.98	25	> 90	< 40	No	103x67x29.5	-10...+50	80	30k <sup>1)</sup>	No	II	IP20	CE, ENEC, RCM, CCC	integrated	20
ELEMENT LD 60/220...240/1A4	4052899947139	220...240	29...59	21...42	1400	0.98	20	up to 90	< 40	No	110x75x29.5	-10...+50	85	30k <sup>1)</sup>	No	II	IP20	CE, ENEC, RCM, CCC	integrated	20		

	<b>Product name</b> OT cable clamp A-STYLE <b>Product number</b> 4052899089570 <b>Dimensions (LxWxH) [mm]</b> 35x65x25 <b>Standard pack [pcs.]</b> 20		<b>Product name</b> OT cable clamp A-STYLE TL <b>Product number</b> 4052899325982 <b>Dimensions (LxWxH) [mm]</b> 90x92x25 <b>Standard pack [pcs.]</b> 20		<b>Product name</b> OT cable clamp B-STYLE <b>Product number</b> 4052899077881 <b>Dimensions (LxWxH) [mm]</b> 35x58x29.5 <b>Standard pack [pcs.]</b> 10		<b>Product name</b> OT cable clamp B-STYLE TL <b>Product number</b> 4052899948051 <b>Dimensions (LxWxH) [mm]</b> 50x67x22 <b>Standard pack [pcs.]</b> 20		<b>Product name</b> OT cable clamp B-STYLE LP TL <b>Product number</b> 4052899530997 <b>Dimensions (LxWxH) [mm]</b> 50x67x22 <b>Standard pack [pcs.]</b> 20		<b>Product name</b> OT cable clamp D-STYLE <b>Product number</b> 4052899077904 <b>Dimensions (LxWxH) [mm]</b> 38.5x33x29.5 <b>Standard pack [pcs.]</b> 40		<b>Product name</b> OT cable clamp E-STYLE <b>Product number</b> 4052899167896 <b>Dimensions (LxWxH) [mm]</b> 38x53x25 <b>Standard pack [pcs.]</b> 20
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1) At max. T<sub>c</sub> temperature, max. failure rate of 10 %  
 2) Operating at 10 °C lower than max. T<sub>c</sub>, max. failure rate of 10 %  
 3) DC voltage range 176 V...276 V  
 4) For current status of certificates and approvals, see product datasheet online.  
 5) General information: The rated MCB current must not be exceeded. The load of the miniature circuit breakers due to the mains input currents of the connected drivers must always be calculated in advance.

\* 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.  
 \*\* OTe 35/220...240/700 PC is only suitable for protection class II luminaires.



All details on relevant guarantees (3 or 7 years) and the general requirements can be found at:  
[www.osram.com/guarantee](http://www.osram.com/guarantee)

Fast and simple programming without mains voltage.



More information on the Tuner4TRONIC® software can be found at:  
[www.osram.com/t4t](http://www.osram.com/t4t)



**Product name**  
OT cable clamp F-STYLE  
**Product number**  
4052899325555  
**Dimensions (LxWxH) [mm]**  
39.2x53x30  
**Standard pack [pcs.]**  
20

NEW  
NEW  
NEW  
NEW  
NEW

NEW  
NEW  
NEW

Phase-out  
Phase-out  
Phase-out  
Phase-out



**OSRAM 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	Max. ECG no. on circuit breaker 16A (B) <sup>9)</sup> [%]	Efficiency (max.) [%]	Ripple (100Hz) [%]	Dimmable	Dimensions (L x W x H) [mm]	Ambient temperature range [°C]	T <sub>c</sub> max. [°C]	Lifetime [h]	DC-compatible	Protection class *	IP protection	Certificates & approvals <sup>9)</sup>	Standard pack [pcs.]	
4DIM	OT 4DIMLT2 G2 NFC	OT 20/170...240/1A0 4DIMLT2 G2 CE	4052899981928	220...240	2...22	10...38	SELV	200...1050	> 0.99	36	87	< 5	4DIM DALI-2/StepDIM/AstroDIM/MainsDIM	123x79x33	-40...+60	75	50k <sup>1)</sup> /100k <sup>2)</sup>	Yes	I/II	IP20	CE, CCC, ENEC, VDE, VDE-EMC, EAC, EL	20
		OT 40/170...240/1A0 4DIMLT2 G2 CE	4052899981935	220...240	3...40	15...56	SELV	200...1050	> 0.99	28	90	< 5	4DIM DALI-2/StepDIM/AstroDIM/MainsDIM	123x79x33	-40...+60	80	50k <sup>1)</sup> /100k <sup>2)</sup>	Yes	I/II	IP20	CE, CCC, ENEC, VDE, VDE-EMC, EAC, EL	20
		OT 75/170...240/1A0 4DIMLT2 G2 CE	4052899981942	220...240	7...75	35...115	SELV	200...1050	> 0.99	12	93	< 5	4DIM DALI-2/StepDIM/AstroDIM/MainsDIM	133x77x40	-40...+55	80	50k <sup>1)</sup> /100k <sup>2)</sup>	Yes	I/II	IP20	CE, CCC, ENEC, VDE, VDE-EMC, EAC, EL	20
		OT 110/170...240/1A0 4DIMLT2 G2 CE	4052899981959	220...240	16...110	80...220	Double	200...1050	> 0.99	11	93	< 5	4DIM DALI-2/StepDIM/AstroDIM/MainsDIM	150x90x40	-40...+55	85	50k <sup>1)</sup> /100k <sup>2)</sup>	Yes	I/II	IP20	CE, CCC, ENEC, VDE, VDE-EMC, EAC, EL	10
4DIM	OT 4DIMLT2 E	OT 40/120...277/1A0 4DIMLT2 E	4052899925182	120...277	7...40	18...56	SELV	350...1050	> 0.95	17	88.5	< 15	4DIM DALI/StepDIM/AstroDIM/MainsDIM	123x79x33	-40...+60	80	50k <sup>1)</sup> /100k <sup>2)</sup>	Yes	I/II	IP20	CE, ENEC, UR, VDE, VDE-EMC, CCC	20
		OT 60/170...240/1A0 4DIMLT2 E	4052899925199	220...240	11...60	30...115	SELV	350...1050	> 0.95	12	90.5	< 15	4DIM DALI/StepDIM/AstroDIM/MainsDIM	133x77x40	-40...+60	85	50k <sup>1)</sup> /100k <sup>2)</sup>	Yes	I/II	IP20	CE, ENEC, VDE, VDE-EMC, CCC	20
		OT 90/170...240/1A0 4DIMLT2 E	4052899925205	220...240	20...90	57...186	Double	350...1050	> 0.95	12	91.5	< 15	4DIM DALI/StepDIM/AstroDIM/MainsDIM	133x77x40	-40...+55	90	50k <sup>1)</sup> /100k <sup>2)</sup>	Yes	I/II	IP20	CE, ENEC, VDE, VDE-EMC, CCC	20
		OT 165/170...240/1A0 4DIMLT2 E	4052899925212	220...240	32...165	90...285	Double	350...1050	> 0.95	8	92	< 15	4DIM DALI/StepDIM/AstroDIM/MainsDIM	170x100x40	-40...+55	85	50k <sup>1)</sup> /100k <sup>2)</sup>	Yes	I/II	IP20	CE, ENEC, VDE, VDE-EMC, CCC	20
2DIM	OT 2DIMLT2 NFC	OT 50/120...277/800 2DIMLT2 P	4052899173781	120...277	11...50	30...115	SELV	350...800	> 0.95	17	86	< 30	2DIM 0-10V/AstroDIM	168x50x30	-40...+55	85	50k <sup>1)</sup> /100k <sup>3)</sup>	-	I/II	IP64	CE, ENEC, UR, CCC	20
		OT 50/120...277/1A2 2DIMLT2 P	4052899173804	120...277	12...50	20...55	SELV	600...1250	> 0.95	17	86	< 30	2DIM 0-10V/AstroDIM	168x50x30	-40...+55	80	50k <sup>1)</sup> /100k <sup>3)</sup>	-	I/II	IP64	CE, ENEC, UR, CCC	20
		OT 100/120...277/800 2DIMLT2 P	4052899253414	120...277	45...100	50...186	Double	350...800	> 0.95	10	90	< 25	2DIM 0-10V/AstroDIM	168x68x38	-40...+55	85	50k <sup>1)</sup> /100k <sup>3)</sup>	-	I/II	IP64	CE, ENEC, UR, CCC	20
		OT 110/120...277/1A4 2DIMLT2 P	4052899253438	120...277	45...110	35...85	SELV	600...1400	> 0.95	10	90	< 25	2DIM 0-10V/AstroDIM	168x68x38	-40...+55	85	50k <sup>1)</sup> /100k <sup>3)</sup>	-	I/II	IP64	CE, ENEC, UR, CCC	20
1DIM	OT 1DIMLT2 G1 NFC	OT 20/170...240/1A0 1DIMLT2 G1 CE	4052899517400	220...240	2...22	10...38	SELV	200...1050	> 0.99	36	87	< 5	1DIM AstroDIM	123x79x33	-40...+60	75	50k <sup>1)</sup> /100k <sup>2)</sup>	-	I/II	IP20	CE, CCC, ENEC, VDE, VDE-EMC, EAC	20
		OT 40/170...240/1A0 1DIMLT2 G1 CE	4052899517424	220...240	3...40	15...56	SELV	200...1050	> 0.99	28	90	< 5	1DIM AstroDIM	123x79x33	-40...+60	80	50k <sup>1)</sup> /100k <sup>2)</sup>	-	I/II	IP20	CE, CCC, ENEC, VDE, VDE-EMC, EAC	20
		OT 75/170...240/1A0 1DIMLT2 G1 CE	4052899541092	220...240	7...75	35...115	SELV	200...1050	> 0.99	12	93	< 5	1DIM AstroDIM	133x77x40	-40...+55	80	50k <sup>1)</sup> /100k <sup>2)</sup>	-	I/II	IP20	CE, CCC, ENEC, VDE, VDE-EMC, EAC	20
		OT 110/170...240/1A0 1DIMLT2 G1 CE	4052899541115	220...240	16...110	80...220	Double	200...1050	> 0.99	11	93	< 5	1DIM AstroDIM	150x90x40	-40...+55	85	50k <sup>1)</sup> /100k <sup>2)</sup>	-	I/II	IP20	CE, CCC, ENEC, VDE, VDE-EMC, EAC	10
1DIM	OT 1DIMA P7	OT 60/220...240/1A4 1DIMA P7	4052899495012	220...240	30...60	36...86	Double	400...1400	> 0.97	14	88	< 5	1DIM AstroDIM	138x82x37	-40...+55	85	50k <sup>1)</sup> /100k <sup>2)</sup>	-	I/II	IP67	CE, ENEC, CCC	20
		OT 100/220...240/1A4 1DIMA P7	4052899495036	220...240	50...100	61...144	Double	400...1400	> 0.98	8	90	< 5	1DIM AstroDIM	174.4x68.6x37	-40...+55	85	50k <sup>1)</sup> /100k <sup>2)</sup>	-	I	IP67	CE, ENEC, CCC	10
		OT 150/220...240/1A4 1DIMA P7	4052899495050	220...240	75...150	91...214	Basic	400...1400	> 0.97	5	92	< 5	1DIM AstroDIM	214.4x68.6x37	-40...+55	85	50k <sup>1)</sup> /100k <sup>2)</sup>	-	I	IP67	CE, ENEC, CCC	10
		OT 200/220...240/1A4 1DIMA P7	4052899495074	220...240	100...200	121...286	Basic	400...1400	> 0.98	3	93	< 5	1DIM AstroDIM	226.2x68.6x37	-40...+55	90	50k <sup>1)</sup> /100k <sup>2)</sup>	-	I	IP67	CE, ENEC, CCC	10
ON/OFF	OT P5	OT 50/120...277/700 P5	4052899259003	120...277	17...50	24...74	SELV	700	> 0.95	13	87	< 30	No	168x50x30	-40...+55	80	50k <sup>1)</sup> /80k <sup>4)</sup>	-	I	IP65	CE, CCC	20
		OT 100/120...277/700 P5	4052899259065	120...277	50...100	55...152	Double	700	> 0.95	7	90	< 30	No	168x60x39	-40...+55	85	50k <sup>1)</sup> /80k <sup>4)</sup>	-	I	IP65	CE, CCC	20
		OT 180/120...277/700 P5	4052899259027	120...277	80...180	115...257	Basic	700	> 0.95	7	90	< 30	No	251x60x38	-40...+55	90	50k <sup>1)</sup> /80k <sup>4)</sup>	-	I	IP65	CE, CCC	20
		OT 250/120...277/700 P5	4052899259041	120...277	125...250	180...357	Basic	700	> 0.95	9	92	< 30	No	267x89x55	-40...+50	75	50k <sup>1)</sup> /80k <sup>4)</sup>	-	I	IP65	CE, CCC	20
ON/OFF (high current)	OT P5	OT 100/220...240/4A2 P5	4052899410657	220...240	24...100	24...48	SELV	2100...4200	> 0.99	8	88	< 25	No	212.5x68x42.5	-40...+55	85	50k <sup>1)</sup> /100k <sup>4)</sup>	-	I	IP65	CE, CCC	10
		OT 150/220...240/4A9 P5	4052899410671	220...240	60...150	30...60	SELV	2450...4900	> 0.98	4	90	< 25	No	242.5x68x42.6	-40...+55	85	50k <sup>1)</sup> /100k <sup>4)</sup>	-	I	IP65	CE, CCC	10
		OT 200/220...240/5A6 P5	4052899410695	220...240	70...200	35...70	SELV	2800...5600	> 0.98	4	91	< 25	No	252.5x68x42.6	-40...+50	85	50k <sup>1)</sup> /100k <sup>4)</sup>	-	I	IP65	CE, CCC	10

More information on the Tuner4TRONIC® software can be found at: [www.osram.com/t4t](http://www.osram.com/t4t)

1) At max. T<sub>c</sub> temperature, max. failure rate of 10 %  
 2) Operating at 13 °C lower than max. T<sub>c</sub>, max. failure rate of 10 %  
 3) Operating at 15 °C lower than max. T<sub>c</sub>, max. failure rate of 10 %  
 4) Operating at 10 °C lower than max. T<sub>c</sub>, max. failure rate of 10 %  
 5) For current status of certificates and approvals, see product datasheet online.  
 6) General information: The rated MCB current must not be exceeded. The load of the miniature circuit breakers due to the mains input currents of the connected drivers must always be calculated in advance.

\* 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.

**Disclaimer:**  
 For complete electrical information, please refer to the individual datasheet.

Operating

Tuning

Low

DALI-2

StepDIM

MainsDIM

LEDset2

Driver Guard

Luminaire

Constant

Surge

EL

AstroDIM

Presence

NFC

Thermal

Configuration

Monitoring

CE

RoHS

**4DIM**

**OPTOTRONIC® 4DIM/DALI-2**  
**Constant current, programmable**

- 4DIM functionality in one device (StepDIM, AstroDIM, MainsDIM, DALI)
- Fast programming without mains voltage via NFC (4DIM G2 only)
- Driver Guard for advanced thermal management (4DIM G2 only)
- Very high efficiency and reliability
- High surge protection: up to 10kV (protection class I and II)
- Vibration- and humidity-protected (varnished, IP20)
- Output current range: up to 1,050 mA
- Overtemperature protection via external NTC and LEDset2 interface
- Suitable for protection class I and II luminaires
- In-field programming using Tuner4TRONIC® Field app (4DIM G2 only)

Operating

Surge

AstroDIM

Thermal

Constant

0-10V

LEDset2

CE

RoHS

**2DIM**

**OPTOTRONIC® 2DIM/0-10V**  
**Constant current, programmable**

- 2DIM functionality in one device (AstroDIM, 0-10V)
- High efficiency and reliability
- High surge protection: up to 6kV (protection class I and II)
- High ingress protection (IP64)
- Output current range: up to 1,400 mA
- Fast programming without mains voltage
- Isolated 0-10V interface for unidirectional telemanagement systems
- Overtemperature protection with external NTC or LEDset2 interface
- Suitable for protection class I and II luminaires

Operating

Tuning

AstroDIM

LEDset2

Driver Guard

Luminaire

Constant

Surge

NFC

Thermal

Configuration

CE

RoHS

**1DIM**

**OPTOTRONIC® 1DIM/AstroDIM**  
**Constant current, programmable**

- AstroDIM functionality
- Fast programming without mains voltage via NFC
- Driver Guard for advanced thermal management (IP20 family only)
- High efficiency and reliability
- High surge protection: up to 10kV
- High ingress protection (IP20/IP67)
- Output current range: up to 1,400 mA
- Overtemperature protection via external NTC and LEDset2 interface (IP20 family only)
- Suitable for protection class I and II luminaires (IP20 family only)
- In-field programming using Tuner4TRONIC® Field app (IP20 family only)

Surge

CE

**ON/OFF**

**OPTOTRONIC® ON/OFF (IP65)**  
**Constant current**

- High efficiency and reliability
- High surge protection: up to 6kV
- Great flexibility due to wide operating temperature range of -40...55/60 °C (OT 200... -40...50 °C)
- High ingress protection (IP65)
- Integrated overtemperature protection

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

Application area	Product name	GTIN (EAN)	Nominal input voltage [V]	Max. out-put power [W]	Output voltage [V]	Rated current [mA] ± 5 %	Power factor	Max. ECG no. on circuit breaker 16A (B) <sup>3)</sup> [%]	Efficiency (max.) [%]	Dimmable	Dimensions (L x W x H) [mm]	Ambient temperature range [°C]	T <sub>c</sub> max. [°C]	Lifetime [h]	Protection class*	IP protection	Certificates & approvals <sup>3)</sup>	Standard pack [pcs.]	
Indoor	OTI DALI 50/220...240/24 1...4 CH	4052899452916	220...240	50	24	2.08	0.98	15	92	DALI-2	346x32x22	-20...+45	70	30k <sup>1)</sup> /50k <sup>2)</sup>	II	IP20	CE, ENEC 10, VDE, VDE-EMC, RCM, EAC, CCC, EL, BIS	20	
	OTI DALI 80/220...240/24 1...4 CH	4052899452893	220...240	80	24	3.33	0.98	10	93	DALI-2	346x32x22	-20...+45	75	30k <sup>1)</sup> /50k <sup>2)</sup>	II	IP20	CE, ENEC 10, VDE, VDE-EMC, RCM, EAC, CCC, EL, BIS	20	
	OTI DALI 160/220...240/24 1...2 CH	4052899986305	220...240	160	24	6.67	0.99	8	93	DALI-2	300x50x35	-20...+45	90	30k <sup>1)</sup> /50k <sup>2)</sup>	II	IP20	CE, ENEC 10, VDE, EMC, EAC, CCC, EL, BIS	20	
	OTI DALI 50/220...240/24 TW	4052899490772	220...240	50	24	2.08	0.98	15	92	DALI DT8 <sup>4)</sup>	346x32x22	-20...+45	70	30k <sup>1)</sup> /50k <sup>2)</sup>	II	IP20	CE, ENEC 10, VDE, VDE-EMC, RCM, EAC, CCC, EL, BIS	20	
	OTI DALI 80/220...240/24 TW	4052899490758	220...240	80	24	3.33	0.98	10	98	DALI DT8 <sup>4)</sup>	346x32x22	-20...+45	75	30k <sup>1)</sup> /50k <sup>2)</sup>	II	IP20	CE, ENEC 10, VDE, VDE-EMC, RCM, EAC, CCC, EL, BIS	20	
	OTI DALI 160/220...240/24 TW	4052899986312	220...240	160	24	6.67	0.99	8	93	DALI DT8 <sup>4)</sup>	300x50x35	-20...+45	90	30k <sup>1)</sup> /50k <sup>2)</sup>	II	IP20	CE, ENEC 10, VDE, EMC, EAC, CCC, EL, BIS	20	
	OT 20/220...240/24	4050300618111	220...240	20	24	0.83	0.8	68	83	No		109x50x35	-20...+45	70	30k <sup>1)</sup> /50k <sup>2)</sup>	II	IP20	CE, ENEC, VDE, VDE, EMC, RCM	20
	OT 50/220...240/24	4052899905566	220...240	50	24	2.08	0.95	19	85	No		242x40x16	-20...+45	95	30k <sup>1)</sup> /50k <sup>2)</sup>	II	IP20	CE, ENEC, CB, RCM, MM	20
	OT 75/220...240/24	4050300817477	220...240	75	24	3.13	0.97	11	90	No		220x46.2x43.6	-20...+50	80	30k <sup>1)</sup> /50k <sup>2)</sup>	II	IP20	CE, ENEC, VDE, VDE, EMC, RCM, EAC	10
	ELEMENT 30/220...240/24	4052899463776	220...240	30	24	1.25	> 0.9	28	86	No		140x45x28	-20...+45	85	30k <sup>1)</sup> /50k <sup>2)</sup>	II	IP20	CE, CB	20
	ELEMENT 60/220...240/24	4052899463790	220...240	60	24	2.50	> 0.9	16	86	No		239x46x30	-20...+50	85	30k <sup>1)</sup> /50k <sup>2)</sup>	II	IP20	CE, CB	20
	ELEMENT 90/220...240/24	4052899463813	220...240	90	24	3.75	> 0.9	11	87	No		230x60x35	-20...+50	85	30k <sup>1)</sup> /50k <sup>2)</sup>	II	IP20	CE, CB	20
<b>Dimmer</b>																			
Indoor	OT BLE DIM 12...24	4052899557833	12...24	240	12...24	10	-	-	98	BLE	172x42x20	-20...+45	65	50k	III	IP20	CE	20	
	OT DMX RGBW DIM 12...24	4052899557949	10...24	172	12...24	7.6	-	-	96	DMX	172x42x20	-20...+50	70	50k	III	IP20	CE, UR	20	
	OTI DALI DIM	4008321061195	10...24	120	10...24	5...10	-	-	97	DALI-1	172x42x20	-20...+50	60	30k <sup>1)</sup> /50k <sup>2)</sup>	II	IP20	CE, RCM, EAC, UR	20	
	OT DIM	4050300943459	10...24	120	10...24	5...10	-	-	96	1...10 V	172x42x20	-20...+50	80	30k <sup>1)</sup> /50k <sup>2)</sup>	II	IP20	CE, UR, VDE, VDE-EMC	20	
Outdoor	OT 20/220...240/24 DIM P	4052899545809	220...240	20	24.2	0.83	0.95	77	83	1...10 V	178x43x25	-30...+55	85	50k	II	IP66	ENEC, RCM, EAC, CCC	20	
	OT 40/220...240/24 DIM P	4052899545823	220...240	40	24.2	1.67	0.95	57	85	1...10 V	208x43x26	-30...+55	90	50k	II	IP66	ENEC, RCM, EAC, CCC	20	
	OT 60/220...240/24 DIM P	4052899545847	220...240	60	24.2	2.50	0.95	34	87	1...10 V	208x43x26	-30...+55	90	50k	II	IP66	ENEC, RCM, EAC, CCC	20	
	OT 100/220...240/24 DIM P	4052899545861	220...240	100	24.2	4.17	0.95	16	90	1...10 V	240x50x34	-30...+55	80	50k	I	IP66	ENEC, RCM, EAC, CCC	10	
	OT 130/220...240/24 DIM P	4052899545885	220...240	130	24.2	5.83	0.95	13	90.5	1...10 V	220x63x37	-30...+55	80	50k	I	IP66	ENEC, RCM, EAC, CCC	10	
	OT 250/220...240/24 DIM P	4052899545908	220...240	250	24.2	10.42	0.95	8	92	1...10 V	265x68x40	-30...+55	85	50k	I	IP66	ENEC, RCM, EAC, CCC	10	
	OT 20/220...240/24 P	4052899545922	220...240	20	24.2	0.83	0.95	77	93	No		178x43x25	-30...+55	85	50k	II	IP66	ENEC, RCM, EAC, CCC	20
	OT 40/220...240/24 P	4052899545946	220...240	40	24.2	1.67	0.95	57	85	No		208x43x26	-30...+55	90	50k	II	IP66	ENEC, RCM, EAC, CCC	20
	OT 60/220...240/24 P	4052899545960	220...240	60	24.2	2.50	0.95	34	87	No		208x43x26	-30...+50	90	50k	II	IP66	ENEC, RCM, EAC, CCC	20
	OT 100/220...240/24 P	4052899545984	220...240	100	24.2	4.17	0.95	16	90	No		240x50x34	-30...+55	80	50k	I	IP66	ENEC, RCM, EAC, CCC	10
	OT 130/220...240/24 P	4052899546004	220...240	130	24.2	5.83	0.95	13	90.5	No		220x63x37	-30...+55	80	50k	I	IP66	ENEC, RCM, EAC, CCC	10
	OT 250/220...240/24 P	4052899546028	220...240	250	24.2	10.42	0.95	8	92	No		265x68x40	-30...+55	85	50k	I	IP66	ENEC, RCM, EAC, CCC	10
	OT 6/200...240/24 CE	4008321113269	200...240	6	24	0.25	0.98	48	80	No		51x50x22	-20...+50	70	30k <sup>1)</sup> /50k <sup>2)</sup>	II	IP65	CE, ENEC, VDE, CB	50
	OTe 120/220...240/24 E	4008321645715	220...240	120	24	5.00	0.95	8	90	No		258x51x45	-10...+50	70	30k <sup>1)</sup> /50k <sup>2)</sup>	I	IP64	CE, CB, CCC, BIS	10
	OT 15/220...240/12 P	4052899905559	220...240	15	12	1.25	> 0.5	51	80	No		237x20x22	-25...+55	80	30k <sup>1)</sup> /50k <sup>2)</sup>	II	IP66	CE, ENEC, CB, CCC, EAC	50
	OT 30/220...240/12 P	4052899905542	220...240	30	12	2.5	> 0.95	21	85	No		220x40x22	-25...+55	80	30k <sup>1)</sup> /50k <sup>2)</sup>	II	IP66	CE, ENEC, CB, CCC, RCM, EAC, BIS	30
	OT 60/220...240/12 P	4008321790811	220...240	60	12	5	> 0.98	17	86	No		180x50x34	-25...+55	80	30k <sup>1)</sup> /50k <sup>2)</sup>	II	IP67	CE, ENEC, CB, CCC, RCM, EAC, BIS	10
	OT 120/220...240/12 P	4008321790835	220...240	120	12	10	0.98	10	88	No		241x60x39	-25...+55	80	30k <sup>1)</sup> /50k <sup>2)</sup>	I	IP67	CE, ENEC, CB, CCC, RCM, EAC, BIS	10
OTe 60/110...277/12 E	4008321794338	110...277	60	12	5	> 0.95	12	≥ 85	No		241x43x30	-25...+55	80	30k <sup>1)</sup> /50k <sup>2)</sup>	I	IP64	CE, CB, CCC, MM, BIS	10	
OTe 120/110...277/12 E	4008321821263	110...277	120	12	10	> 0.95	6	≥ 85	No		258x51.2x44.5	-25...+55	80	30k <sup>1)</sup> /50k <sup>2)</sup>	I	IP64	CE, CB, CCC, MM, BIS	10	



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<sub>c</sub> temperature, max. failure rate of 10 %
- 2) Operating at 10 °C lower than max. T<sub>c</sub>, max. failure rate of 10 %
- 3) For current status of certificates and approvals, see product datasheet online.
- 4) Device Type 8
- 5) General information: The rated MCB current must not be exceeded. The load of the miniature circuit breakers due to the mains input currents of the connected drivers must always be calculated in advance.

- \* 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.

Find more product-specific information at:

- OPTOTRONIC®: [www.osram.com/optotronic](http://www.osram.com/optotronic)
- LEDset: [www.osram.com/ledset](http://www.osram.com/ledset)
- DALI: [www.osram.com/dali](http://www.osram.com/dali)
- Tuner4TRONIC®: [www.osram.com/t4t](http://www.osram.com/t4t)



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

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**OSRAM GmbH**  
**Headquarters Germany**  
Phone: +49 89 6213-0  
E-mail: contact@osram.com

**OSRAM a.s Office Austria**  
Phone: +43 1 250 24  
E-mail: info@osram.at

**OSRAM Benelux B.V.**  
**Netherlands**  
Phone: +31 (0) 88 750 8800  
E-mail: osram@osram.nl

**Belgium**  
Phone: +32 (0) 2 588 49 51  
E-mail: osram@osram.be

**OSRAM Sales EOOD Bulgaria**  
Phone: +359 32 348 110  
E-mail: sales-sofia@osram.com

**OSRAM d.o.o. Croatia**  
Phone: +385 1 3032-023  
E-mail: osram@osram.hr

**OSRAM Ceska republika s.r.o.**  
**Czech Republic**  
Phone: +42 0 554 793 111  
E-mail: osram@osram.cz

**OSRAM A/S Denmark**  
Phone: +45 43 30 20 40

**OSRAM Oy Finland**  
Phone: +358 9 8493 2200  
E-mail: asiakaspalvelu@osram.fi

**Baltic DS/OSRAM Oy Finland:**  
**Estonia, Latvia and Lithuania**  
Phone: +358 9 8493 2200  
E-mail: customerservice@osram.fi

**OSRAM Lighting Middle East FZE**  
**Dubai – United Arab Emirates**  
Phone: +971 4 523 1777  
E-mail: ds-mea@osram.com

**OSRAM Lighting SASU France**  
Phone: +33 3 68 41 89 33  
E-mail: oem@osram.fr

**OSRAM Limited Great Britain**  
Phone: +44 1925 273 360  
E-mail: oem@osram.com

**OSRAM a.s. Magyarországi**  
**Fióktelepe Hungary**  
Phone: +36 1 225 30 55  
E-mail: info@osram.hu

**OSRAM SpA Società Riunite**  
**OSRAM Edison Clerici Italy**  
Phone: +39 02 424 91  
E-mail: oemcentroservizi@osram.com

**OSRAM Lighting AS Norway**  
Phone: +47 40 00 40 14

**OSRAM North Africa S.a.r.l.**  
E-mail: contact@osram.com

**OSRAM (Pty.) Ltd. South Africa**  
Phone: +27 10 221 40 00

**OSRAM Sp. z.o.o. Poland**  
Phone: +48 22 376 57 00  
E-mail: biuro.pl@osram.pl

**OSRAM LDA**  
**Portugal, Açores, Madeira**  
Phone: +351 21 033 22 10  
E-mail: osram@osram.pt

**OSRAM OOO Russia DS**  
Phone: +7 (499) 649-7070  
E-mail: ds-russia@osram.com

**OSRAM Romania S.R.L.**  
Phone: +40 (21) 232 85 61  
E-mail: osram\_ro@osram.com

**OSRAM, a.s. Slovak Republic**  
Phone: +421 35 64 64 473  
E-mail: contact@osram.com

**OSRAM a.s. Slovenia**  
Phone: +43 1 250 24  
E-mail: info@osram.at

**OSRAM Lighting S.L. Spain**  
Phone: +34 91 491 52 17  
E-mail: marketing-ds@osram.com

**OSRAM AB Sweden**  
Phone: +46 128 70 400  
E-mail: info@osram.se

**OSRAM Lighting AG Switzerland**  
Phone: +41 52 555 25 55  
E-mail: info.ch@osram.com

**OSRAM Teknolojileri Ticaret A.S.**  
**Turkey**  
Phone: +90 212 703 43 00  
E-mail: contact@osram.com

**OSRAM GmbH**

Headquarters Germany:

Marcel-Breuer-Strasse 6  
80807 Munich, Germany  
Phone +49 89 6213-0  
Fax +49 89 6213-2020  
www.osram.com

**OSRAM**