









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) [%]	Dimmable	Dimensions (L x W x H) [mm]	Ambient temperature range [°C]	T <sub>c</sub> max. [°C]	Lifetime [h]	EL Emergency Lighting <sup>5)</sup>	Protection class	IP protection	Certificates & approvals <sup>6)</sup>	Cable clamp kit	Standard pack [pcs.]
	DALI – SELV	OTi DALI 15/220...240/1A4 LT2	4052899 <b>324879</b>	220...240	3...18	7.5...54	150-1050	> 0.95	up to 88	< 1	DALI**	95 x 53 x 30	-20...+50	75	50 k <sup>1)</sup> /100 k <sup>2)</sup>	Yes	II	IP20	CE, ENEC, VDE, EMC, MM, EL, CCC	F-STYLE	20
		OTi DALI 25/220...240/700 LT2	4052899 <b>488144</b>	220...240	7...27	12...54	180-700	> 0.95	up to 88	< 1	DALI**	103 x 67 x 29.5	-20...+50	75	50 k <sup>1)</sup> /100 k <sup>2)</sup>	Yes	II	IP20	CE, ENEC, VDE, EMC, F, MM, EL, CCC, EAC	B-STYLE, ...TL	20
		OTi DALI 35/220...240/1A0 LT2	4052899 <b>488168</b>	220...240	15...35	15...54	350-1050	> 0.95	up to 88	< 1	DALI**	103 x 67 x 29.5	-20...+50	75	50 k <sup>1)</sup> /100 k <sup>2)</sup>	Yes	II	IP20	CE, ENEC, VDE, EMC, F, MM, EL, CCC, EAC	B-STYLE, ...TL	20
		OTi DALI 50/220...240/1A4 LT2 FAN	4052899 <b>488182</b>	220...240	22...55	15...54	600-1400	> 0.95	up to 92	< 1	DALI**	110 x 75 x 25	-20...+50	80	50 k <sup>1)</sup> /100 k <sup>2)</sup>	Yes	II	IP20	CE, ENEC, VDE, EMC, F, MM, EL, CCC, EAC	A-STYLE, ...TL	20
	Phase-cut (PC) – SELV	OTe 10/220...240/700 PC	4052899 <b>105300</b>	220...240	5...10	7...14	700	> 0.95	up to 79	35	Phase cut	95 x 53 x 25	-20...+55	80	35 k <sup>1)</sup> /50 k <sup>2)</sup>	No	II	IP20	CE, ENEC, VDE, F, MM, CCC	E-STYLE	20
		OTe 13/220...240/350 PC	4052899 <b>105324</b>	220...240	6.5...13.5	18...38	350	> 0.95	up to 82	25	Phase cut	95 x 53 x 25	-20...+55	85	35 k <sup>1)</sup> /50 k <sup>2)</sup>	No	II	IP20	CE, ENEC, VDE, F, MM, CCC	E-STYLE	20
		OTe 18/220...240/350 PC	4052899 <b>105348</b>	220...240	9.5...19	27...54	350	> 0.95	up to 84	< 35	Phase cut	95 x 53 x 30	-20...+55	75	35 k <sup>1)</sup> /50 k <sup>2)</sup>	No	II	IP20	CE, ENEC, VDE, F, MM, CCC	E-STYLE	20
		OTe 18/220...240/500 PC	4052899 <b>105362</b>	220...240	9...18	18...36	500	> 0.95	up to 84	< 35	Phase cut	95 x 53 x 30	-20...+55	75	35 k <sup>1)</sup> /50 k <sup>2)</sup>	No	II	IP20	CE, ENEC, VDE, F, MM, CCC	E-STYLE	20
		OTe 25/220...240/700 PC	4052899 <b>105386</b>	220...240	12.5...25	18...36	700	> 0.95	up to 85	< 35	Phase cut	95 x 53 x 30	-20...+50	75	35 k <sup>1)</sup> /50 k <sup>2)</sup>	No	II	IP20	CE, ENEC, VDE, F, MM, CCC	E-STYLE	20
		OTe 35/220...240/700 PC	400832 <b>1825520</b>	220...240	19...35	27...50	700	> 0.95	up to 85	< 35	Phase cut	153 x 54 x 36	-20...+45	75	35 k <sup>1)</sup> /50 k <sup>2)</sup>	No	II***	IP20	CE, ENEC, VDE, F, MM, CCC		10
	OT FIT LT2 – LP– SELV (Window) Low profile	OT FIT 15/220-240/500 LT2 S	4052899 <b>490673</b>	220...240	4.5...17.5	15...50	150...500	> 0.95	up to 84	< 5	No	103 x 67 x 22.5	-20...+50	75	50 k <sup>1)</sup> /100 k <sup>2)</sup>	Yes	II	IP20	CE, ENEC, VDE, EMC, F, MM, EL, CCC	B-STYLE LP.TL	20
		OT FIT 25/220-240/700 LT2 S	4052899 <b>490697</b>	220...240	8...26.5	15...50	300...700	> 0.95	up to 86	< 5	No	103 x 67 x 22.5	-20...+50	75	50 k <sup>1)</sup> /100 k <sup>2)</sup>	Yes	II	IP20	CE, ENEC, VDE, EMC, F, MM, EL, CCC	B-STYLE LP.TL	20
		OT FIT 40/220-240/1A0 LT2 S	4052899 <b>490734</b>	220...240	13...40	15...50	500...1050	> 0.97	up to 87	< 5	No	103 x 67 x 22.5	-20...+40	75	50 k <sup>1)</sup> /100 k <sup>2)</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	4052899 <b>956995</b>	220...240	4.5...17.5	15...50	150...500	> 0.95	up to 84	< 1	No	97 x 43 x 29.5	-20...+50	75	50 k <sup>1)</sup> /100 k <sup>2)</sup>	No	II	IP20	CE, ENEC, VDE, EMC, RCM, CCC	D-STYLE	20
		OT FIT 25/220-240/700 LT2 S	4052899 <b>957008</b>	220...240	8...26.5	15...50	300...700	> 0.95	up to 86	< 1	No	97 x 43 x 29.5	-20...+50	75	50 k <sup>1)</sup> /100 k <sup>2)</sup>	No	II	IP20	CE, ENEC, VDE, EMC, RCM, CCC	D-STYLE	20
		OT FIT 40/220-240/1A0 LT2 S	4052899 <b>957015</b>	220...240	13...40	15...50	500...1050	> 0.97	up to 87	< 1	No	97 x 43 x 29.5	-20...+40	75	50 k <sup>1)</sup> /100 k <sup>2)</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	4052899 <b>435612</b>	220...240	6.5...21	25...42	250/350/450/500	0.98	up to 87	< 5	No	97 x 43 x 29.5	-20...+50	80	50 k <sup>2)</sup>	No	II	IP20	CE, ENEC, RCM, CCC	D-STYLE	20
		OT FIT 30/220...240/700 CS G2	4052899 <b>435636</b>	220...240	11.5...29.4	23...42	500/600/650/700	0.98	up to 89	< 5	No	97 x 43 x 29.5	-20...+50	80	50 k <sup>2)</sup>	No	II	IP20	CE, ENEC, RCM, CCC	D-STYLE	20
		OT FIT 40/220...240/1A0 CS G2	4052899 <b>435650</b>	220...240	20...44	25...42	800/900/950/1050	0.98	up to 90	< 5	No	97 x 43 x 29.5	-20...+50	80	50 k <sup>2)</sup>	No	II	IP20	CE, ENEC, RCM, CCC	D-STYLE	20
	OT FIT – SELV	OT FIT 15/220...240/350 CS	4052899 <b>919426</b>	220...240	7...19	27...54	250/300/350	> 0.95	up to 83	< 5	No	103 x 67 x 29.5	-25...+50	75	50 k <sup>1)</sup> /100 k <sup>2)</sup>	Yes	II	IP20	CE, ENEC, VDE, EMC, F, MM, EL, CCC	B-STYLE, ...TL	20
		OT FIT 25/220...240/500 CS	4052899 <b>919419</b>	220...240	11...27	27...54	400/450/500	> 0.95	up to 85	< 5	No	103 x 67 x 29.5	-25...+50	75	50 k <sup>1)</sup> /100 k <sup>2)</sup>	Yes	II	IP20	CE, ENEC, VDE, EMC, F, MM, EL, CCC	B-STYLE, ...TL	20
		OT FIT 35/220...240/700 CS	4052899 <b>919402</b>	220...240	15...37.5	27...54	550/600/700	> 0.95	up to 87	< 5	No	103 x 67 x 29.5	-25...+50	75	50 k <sup>1)</sup> /100 k <sup>2)</sup>	Yes	II	IP20	CE, ENEC, VDE, EMC, F, MM, EL, CCC	B-STYLE, ...TL	20
		OT FIT 50/220...240/1A0 CS	4052899 <b>166318</b>	220...240	27...54	27...54	800/900/1050	> 0.95	up to 89	6	No	103 x 67 x 29.5	-25...+50	75	50 k <sup>1)</sup> /100 k <sup>2)</sup>	Yes	II	IP20	CE, ENEC, VDE, EMC, F, MM, EL, CCC	B-STYLE, ...TL	20
	OT ECO – SELV	OTe 25/220...240/420 CS	4052899 <b>917538</b>	220...240	8...23	27...54	290/350/420	> 0.95	up to 85	20 <sup>3)</sup>	No	97 x 43 x 29.5	-20...+50	75	35 k <sup>1)</sup> /50 k <sup>4)</sup>	No	II	IP20	CE, ENEC, VDE, EMC, F, MM, CCC, EAC	D-STYLE	20
		OTe 25/220...240/700 CS	4052899 <b>917545</b>	220...240	9...25	18...36	500/600/700	> 0.95	up to 85	25 <sup>3)</sup>	No	97 x 43 x 29.5	-20...+50	80	35 k <sup>1)</sup> /50 k <sup>4)</sup>	No	II	IP20	CE, ENEC, VDE, EMC, F, MM, CCC, EAC	D-STYLE	20
		OTe 35/220...240/700 CS	4052899 <b>917569</b>	220...240	13...37	27...54	500/600/700	> 0.95	up to 87	25 <sup>3)</sup>	No	103 x 67 x 29.5	-20...+50	75	35 k <sup>1)</sup> /50 k <sup>4)</sup>	No	II	IP20	CE, ENEC, VDE, EMC, F, MM, CCC, EAC	B-STYLE, ...TL	20
		OTe 35/220...240/700 CS S	4052899 <b>917552</b>	220...240	13...37	27...54	500/600/700	> 0.95	up to 87	25 <sup>3)</sup>	No	110 x 43 x 29.5	-20...+50	80	35 k <sup>1)</sup> /50 k <sup>4)</sup>	No	II	IP20	CE, ENEC, VDE, EMC, F, MM, CCC		20
		OTe 35/220...240/1A0 CS	4052899 <b>917668</b>	220...240	14...36	17...34	800/925/1050	> 0.95	up to 87	30 <sup>3)</sup>	No	103 x 67 x 29.5	-20...+50	80	35 k <sup>1)</sup> /50 k <sup>4)</sup>	No	II	IP20	CE, ENEC, VDE, EMC, F, MM, CCC	B-STYLE, ...TL	20
		OTe 35/220...240/1A0 CS S	4052899 <b>917651</b>	220...240	14...36	17...34	800/925/1050	> 0.95	up to 87	25 <sup>3)</sup>	No	110 x 43 x 29.5	-20...+50	80	35 k <sup>1)</sup> /50 k <sup>4)</sup>	No	II	IP20	CE, ENEC, VDE, EMC, F, MM, CCC		20
		OTe 50/220...240/1A0 CS	4052899 <b>917576</b>	220...240	22...56	27...54	800/925/1050	> 0.95	up to 87	20 <sup>3)</sup>	No	103 x 67 x 29.5	-20...+50	85	35 k <sup>1)</sup> /50 k <sup>4)</sup>	No	II	IP20	CE, ENEC, VDE, EMC, F, MM, CCC, EAC	B-STYLE, ...TL	20
		OTe 50/220...240/1A4 CS	4052899 <b>917583</b>	220...240	21...50	18...36	1150/1250/1400	> 0.95	up to 87	25 <sup>3)</sup>	No	103 x 67 x 29.5	-20...+50	80	35 k <sup>1)</sup> /50 k <sup>4)</sup>	No	II	IP20	CE, ENEC, VDE, EMC, F, MM, CCC	B-STYLE, ...TL	20
	ELEMENT – SELV	OTe 50/220...240/1A0 CS FAN	4052899 <b>919396</b>	220...240	22...56	27...54	700/900/1050	> 0.95	up to 88	30 <sup>3)</sup>	No	103 x 67 x 29.5	-20...+50	85	35 k <sup>1)</sup> /50 k <sup>4)</sup>	No	II	IP20	CE, ENEC, VDE, EMC, F, MM, CCC	B-STYLE, ...TL	20
		Element LD 8/220...240/180	4052899 <b>947078</b>	220...240	4...8	21...42	180	0.85	up to 88	< 40	No	115 x 45 x 25	-10...+50	70	30 k <sup>1)</sup>	No	II	IP20	CE, ENEC, RCM, CCC	integrated	20
		Element LD 15/220...240/350	4025899 <b>947085</b>	220...240	7.4...14.7	21...42	350	0.95	> 87	< 40	No	115 x 45 x 25	-10...+50	75	30 k <sup>1)</sup>	No	II	IP20	CE, ENEC, RCM, CCC	integrated	20
		Element LD 20/220...240/500	4052899 <b>947092</b>	220...240	11...21	21...42	500	0.98	> 87	< 40	No	115 x 45 x 25	-10...+45	85	30 k <sup>1)</sup>	No	II	IP20	CE, ENEC, RCM, CCC	integrated	20
		Element LD 30/220...240/700	4052899 <b>947108</b>	220...240	15...30	21...42	700	0.98	> 90	< 40	No	103 x 67 x 29.5	-10...+50	75	30 k <sup>1)</sup>	No	II	IP20	CE, ENEC, RCM, CCC	integrated	20
		Element LD 38/220...240/900	4052899 <b>947115</b>	220...240	19...38	21...42	900	0.98	> 90	< 40	No	103 x 67 x 29.5	-10...+50	80	30 k <sup>1)</sup>	No	II	IP20	CE, ENEC, RCM, CCC	integrated	20
		Element LD 45/220...240/1A0	4052899 <b>947122</b>	220...240	22...45	21...42	1050	0.98	> 90	< 40	No	103 x 67 x 29.5	-10...+50	80	30 k <sup>1)</sup>	No	II	IP20	CE, ENEC, RCM, CCC	integrated	20
		Element LD 60/220...240/1A4	4052899 <b>947139</b>	220...240	29...59	21...42	1400	0.98	up to 90	< 40	No	110 x 75 x 29.5	-10...+50	85	30 k <sup>1)</sup>	No	II	IP20	CE, ENEC, RCM, CCC	integrated	20



**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 TL  
**Product number** 4052899**948051**  
**Dimensions (L x W x H) [mm]** 75 x 92 x 29.5  
**Standard pack [pcs.]** 20



**Product name** OT cable clamp D-STYLE  
**Product number** 4052899**077904**  
**Dimensions (L x W x H) [mm]** 38.5 x 33 x 29.5  
**Standard pack [pcs.]** 40



**Product name** OT cable clamp E-STYLE  
**Product number** 4052899**167896**  
**Dimensions (L x W x H) [mm]** 38 x 53 x 25  
**Standard pack [pcs.]** 20



**Product name** OT cable clamp F-STYLE  
**Product number** 4052899**325555**  
**Dimensions (L x W x H) [mm]** 39.2 x 53 x 30  
**Standard pack [pcs.]** 20

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>



Linear OSRAM OPTOTRONIC® constant-current LED drivers, indoor

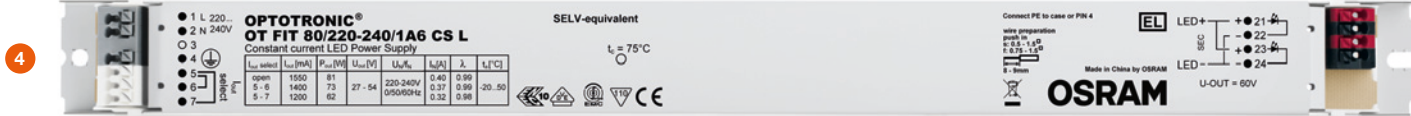
	Product family/ Isolation	Product name	GTIN (EAN)	Nominal input volt- age [V]	Output power [W]	Output voltage [V]	Rated current [mA] ± 5%	Power factor	Efficiency (max.) [%]	Ripple (100Hz) [%]	Dimm- able	Dimensions (L x W x H) [mm]	Ambient temperature range [°C]	T <sub>c</sub> max. [°C]	Lifetime [h]	EL Emergency Lighting <sup>3)</sup>	Protec- tion class*	IP pro- tection	Certificates & approbations <sup>4)</sup>	Standard pack [pcs.]
High-light	DALI – SELV	OTi DALI 35/220...240/700 LT2 L	4052899 <b>245389</b>	220...240	4...37	20...54	200...700	> 0.95	up to 89	< 1	DALI**	360x30x21	-25...+60	75	50 k <sup>1)/100 k<sup>2)</sup></sup>	Yes	I	IP20	CE, ENEC, VDE, EMC, EL, CCC	20
		<b>1</b> OTi DALI 50/220...240/1A4 LT2 L	4052899 <b>028098</b>	220...240	12...54	20...54	600...1400	> 0.95	up to 88	< 1	DALI**	360x30x21	-25...+50	75	50 k <sup>1)/100 k<sup>2)</sup></sup>	Yes	I	IP20	CE, ENEC, VDE, EMC, EL, CCC	20
		OTi DALI 80/220...240/1A6 LT2 L	4052899 <b>028074</b>	220...240	12...80	20...54	600...1550	> 0.95	up to 90	< 1	DALI**	360x30x21	-25...+50	80	50 k <sup>1)/100 k<sup>2)</sup></sup>	Yes	I	IP20	CE, ENEC, VDE, EMC, EL, CCC	20
		OTi DALI 80/220...240/2A1 LT2 L	4052899 <b>028050</b>	220...240	32...80	20...54	1000...2100	> 0.95	up to 90	< 1	DALI**	360x30x21	-25...+50	80	50 k <sup>1)/100 k<sup>2)</sup></sup>	Yes	I	IP20	CE, ENEC, VDE, EMC, EL, CCC	20
	DALI – „non-isolated“	<b>2</b> OTi DALI 35/220...240/400 D LT2 UF L	4052899 <b>957022</b>	220...240	4...38	54...240	75...400	> 0.98	up to 93	≤ 1	DALI***	360x30x11	-25...+60	75	50 k <sup>1)/100 k<sup>2)</sup></sup>	Yes	I	IP20	CE, ENEC, VDE, EMC	20
		<b>2</b> OTi DALI 75/220...240/700 D LT2 UF L	4052899 <b>957046</b>	220...240	8...75	54...240	250...700	> 0.98	up to 93	≤ 1	DALI***	360x30x11	-25...+50	75	50 k <sup>1)/100 k<sup>2)</sup></sup>	Yes	I	IP20	CE, ENEC, VDE, EMC	20
		OTi DALI 35/220...240/400 D LT2 L (G3)	4052899 <b>494220</b>	220...240	4...38	54...240	75...400	> 0.95	up to 92	≤ 1	DALI***	280x30x21	-25...+60	75	50 k <sup>1)/100 k<sup>2)</sup></sup>	Yes	I	IP20	CE, ENEC, VDE, EMC, EL, EAC	20
		OTi DALI 60/220...240/550 D LT2 L (G3)	4052899 <b>494206</b>	220...240	6.4...60	54...240	120...550	> 0.95	up to 93	≤ 1	DALI***	280x30x21	-25...+60	75	50 k <sup>1)/100 k<sup>2)</sup></sup>	Yes	I	IP20	CE, ENEC, VDE, EMC, EL	20
		<b>3</b> OTi DALI 90/220...240/700 D LT2 L (G3)	4052899 <b>494244</b>	220...240	13.5...90	54...240	250...700	> 0.95	up to 93	≤ 1	DALI***	280x30x21	-25...+50	75	50 k <sup>1)/100 k<sup>2)</sup></sup>	Yes	I	IP20	CE, ENEC, VDE, EMC, EL	20
		OTi DALI 90/220...240/1A0 LT2 L (G3)	4052899 <b>494268</b>	220...240	13.5...90	54...240	250...1000	> 0.95	up to 94	≤ 1	DALI***	280x30x21	-25...+50	75	50 k <sup>1)/100 k<sup>2)</sup></sup>	Yes	I	IP20	CE, ENEC, VDE, EMC, EL	20
Low-light	OT FIT – SELV	OT FIT 35/220...240/700 CS L	4052899 <b>032828</b>	220...240	13.5...35	27...54	500/600/700	> 0.95	up to 86	< 10	No	280x30x21	-25...+50	75	50 k <sup>1)/100 k<sup>2)</sup></sup>	Yes	I	IP20	CE, ENEC, VDE, EMC, EL, CCC	20
		OT FIT 50/220...240/1A0 CS L	4052899 <b>032804</b>	220...240	23...55	27...54	800/925/1050	> 0.95	up to 86	< 10	No	280x30x21	-25...+50	75	50 k <sup>1)/100 k<sup>2)</sup></sup>	Yes	I	IP20	CE, ENEC, VDE, EMC, EL, CCC	20
		<b>4</b> OT FIT 80/220...240/1A6 CS L	4052899 <b>032781</b>	220...240	32...83	27...54	1200/1400/1550	> 0.95	up to 87	< 10	No	360x30x21	-25...+50	75	50 k <sup>1)/100 k<sup>2)</sup></sup>	Yes	I	IP20	CE, ENEC, VDE, EMC, EL, CCC	20
		OT FIT 35/220...240/700 CS L (G2)	4052899 <b>522534</b>	220...240	13.5...35.7	27...51	500/600/650/700	> 0.95	up to 86	< 5	No	280x30x21	-25...+50	80	50 k <sup>1)/100 k<sup>2)</sup></sup>	Yes	I	IP20	CE, ENEC, VDE, EMC, EL	20
		OT FIT 55/220...240/1050 CS L (G2)	4052899 <b>522558</b>	220...240	21.6...53.6	27...51	800/900/975/1050	> 0.95	up to 89	< 5	No	280x30x21	-25...+50	80	50 k <sup>1)/100 k<sup>2)</sup></sup>	Yes	I	IP20	CE, ENEC, VDE, EMC, EL	20
		OT FIT 75/220...240/1400 CS L (G2)	4052899 <b>458451</b>	220...240	29.7...71.4	28...51	1100/1200/1300/1400	> 0.95	up to 87	< 5	No	280x30x21	-25...+50	80	50 k <sup>1)/100 k<sup>2)</sup></sup>	Yes	I	IP20	CE, ENEC, VDE, EMC, EL	20
	OT FIT – „non-isolated“	<b>5</b> OT FIT 35/220...240/350 D LT2 L	4052899 <b>478411</b>	220...240	4.1...35	54...216	75-350	> 0.95	< 92	≤ 1	No	210x30x21	-25...+60	75	50 k <sup>1)/100 k<sup>2)</sup></sup>	Yes	I	IP20	CE, ENEC, VDE, EMC, EL	20
		OT FIT 75/220...240/550 D LT2 L	4052899 <b>478435</b>	220...240	6.8...75	54...216	125 - 550	> 0.95	< 93	≤ 1	No	210x30x21	-25...+60	75	50 k <sup>1)/100 k<sup>2)</sup></sup>	Yes	I	IP20	CE, ENEC, VDE, EMC, EL	20
		OT FIT 120/220...240/750 D LT2 L	4052899 <b>497900</b>	220...240	13.5...120	54...216	250 - 750	> 0.95	< 93	≤ 1	No	210x30x21	-25...+60	75	50 k <sup>1)/100 k<sup>2)</sup></sup>	Yes	I	IP20	CE, ENEC, VDE, EMC, EL	20
	OT FIT – „non-isolated“	<b>6</b> OT FIT 30/220...240/125 D L	4052899 <b>222557</b>	220...240	7...27	54...216	125	> 0.95	up to 90	< 10	No	210x30x21	-15...+50	75	50 k <sup>1)/100 k<sup>2)</sup></sup>	Yes	I	IP20	CE, ENEC, VDE, EMC, EL, CCC	20
		OT FIT 50/220...240/250 D L	4052899 <b>222571</b>	220...240	14...54	54...216	250	> 0.97	up to 90	< 10	No	210x30x21	-15...+50	75	50 k <sup>1)/100 k<sup>2)</sup></sup>	Yes	I	IP20	CE, ENEC, VDE, EMC, EL, CCC	20
		OT FIT 50/220...240/300 D L	4052899 <b>462694</b>	220...240	16...53	54...175	300	> 0.97	up to 90	< 10	No	210x30x21	-15...+50	75	50 k <sup>1)/100 k<sup>2)</sup></sup>	Yes	I	IP20	CE, ENEC, VDE, EMC, EL, CCC	20
		OT FIT 50/220...240/350 D L	4052899 <b>222595</b>	220...240	19...53	54...150	350	> 0.97	up to 90	< 10	No	210x30x21	-15...+50	75	50 k <sup>1)/100 k<sup>2)</sup></sup>	Yes	I	IP20	CE, ENEC, VDE, EMC, EL, CCC	20

360 mm x 30 mm x 21 mm



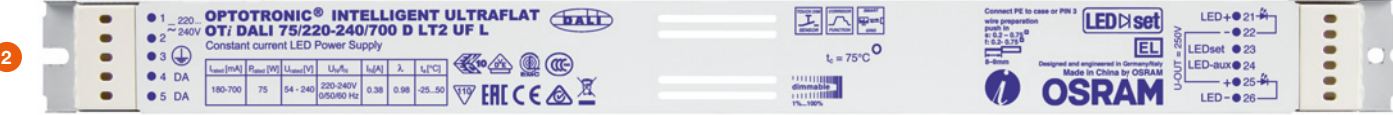
OTi DALI 50/220...240/1A4 LT2 L

360 mm x 30 mm x 21 mm



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

360 mm x 30 mm x 11 mm



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

High-light



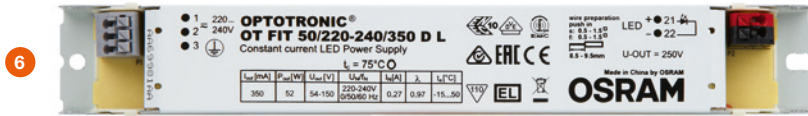
Ultraflat – 11 mm

280 mm x 30 mm x 21 mm



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

210 mm x 30 mm x 21 mm



OT FIT 50/220...240 D 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<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 %

\* 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.



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](http://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 @ 100Hz (< 10 %).



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

OPTOTRONIC® constant-current LED drivers, outdoor

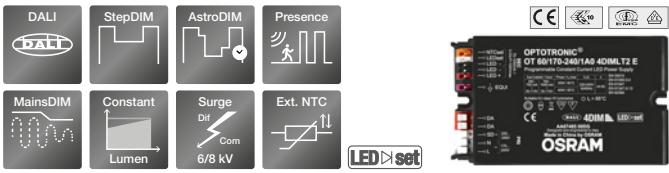
Product family	Product name	GTIN (EAN)	Nominal input voltage [V]	Output power [W]	Output voltage [V]	Type of isolation	Rated current [mA] ± 5 %	Power factor	Efficiency (max.) [%]	Ripple (100Hz) [%]	Dimmable	Dimensions (L x W x H) [mm]	Ambient temperature range [°C]	T <sub>c</sub> max. [°C]	Lifetime [h]	DC-com-patible	Protec-tion class *	IP pro-tection	Certificates & approbations <sup>5)</sup>	Standard pack [pcs.]
OT 4DIMLT2 E	OT 40/120...277/1A0 4DIMLT2 E	4052899 <b>925182</b>	120...277	7...40	18...56	SELV	350...1050	> 0.95	88.5	< 15	4DIM DALI/StepDIM/AstroDIM/MainsDIM	123 x 79 x 33	-40...+60	80	50 k <sup>1)</sup> /100 k <sup>2)</sup>	Yes	I/II	IP20	CE/ENEC/UR/VDE/VDE-EMC/CCC	20
	OT 60/170...240/1A0 4DIMLT2 E	4052899 <b>925199</b>	220...240	11...60	30...115	SELV	350...1050	> 0.95	90.5	< 15	4DIM DALI/StepDIM/AstroDIM/MainsDIM	133 x 77 x 40	-40...+60	85	50 k <sup>1)</sup> /100 k <sup>2)</sup>	Yes	I/II	IP20	CE/ENEC/UR/VDE/VDE-EMC/CCC	20
	OT 90/170...240/1A0 4DIMLT2 E	4052899 <b>925205</b>	220...240	20...90	57...186	Double	350...1050	> 0.95	91.5	< 15	4DIM DALI/StepDIM/AstroDIM/MainsDIM	133 x 77 x 40	-40...+55	90	50 k <sup>1)</sup> /100 k <sup>2)</sup>	Yes	I/II	IP20	CE/ENEC/UR/VDE/VDE-EMC/CCC	20
	OT 165/170...240/1A0 4DIMLT2 E	4052899 <b>925212</b>	220...240	32...165	90...285	Double	350...1050	> 0.95	92.0	< 15	4DIM DALI/StepDIM/AstroDIM/MainsDIM	170 x 100 x 40	-40...+55	85	50 k <sup>1)</sup> /100 k <sup>2)</sup>	Yes	I/II	IP20	CE/ENEC/UR/VDE/VDE-EMC/CCC	20
OT 2DIMLT2	OT 50120...277800 2DIMLT2 P	4052899 <b>173781</b>	120...277	11...50	30...115	SELV	350...800	> 0.95	86.0	< 30	2DIM 1-10V/AstroDIM	168 x 50 x 30	-40...+55	85	50 k <sup>1)</sup> /100 k <sup>3)</sup>	–	I/II	IP64	CE/ENEC/UR/CCC	20
	OT 50/120...277/1A2 2DIMLT2 P	4052899 <b>173804</b>	120...277	12...50	20...55	SELV	600...1250	> 0.95	86.0	< 30	2DIM 1-10V/AstroDIM	168 x 50 x 30	-40...+55	80	50 k <sup>1)</sup> /100 k <sup>3)</sup>	–	I/II	IP64	CE/ENEC/UR/CCC	20
	OT 100/120...277/800 2DIMLT2 P	4052899 <b>253414</b>	120...277	45...100	50...186	Double	350...800	> 0.95	90.0	< 25	2DIM 1-10V/AstroDIM	168 x 68 x 38	-40...+55	85	50 k <sup>1)</sup> /100 k <sup>3)</sup>	–	I/II	IP64	CE/ENEC/UR/CCC	20
	OT 110/120...277/1A4 2DIMLT2 P	4052899 <b>253438</b>	120...277	45...110	35...85	SELV	600...1400	> 0.95	90.0	< 25	2DIM 1-10V/AstroDIM	168 x 68 x 38	-40...+55	85	50 k <sup>1)</sup> /100 k <sup>3)</sup>	–	I/II	IP64	CE/ENEC/UR/CCC	20
OT	OT 50/120...277/700 P5	4052899 <b>259003</b>	120...277	17...50	24...74	SELV	700	> 0.95	≥ 87.0	< 30	No	168 x 50 x 30	-40...+55	80	50 k <sup>1)</sup> /80 k <sup>4)</sup>	–	I	IP65	CE, CCC	20
	OT 100/120...277/700 P5	4052899 <b>259065</b>	120...277	50...100	55...152	Double	700	> 0.95	90.0	< 30	No	168 x 60 x 39	-40...+55	85	50 k <sup>1)</sup> /80 k <sup>4)</sup>	–	I	IP65	CE, CCC	20
	OT 180/120...277/700 P5	4052899 <b>259027</b>	120...277	80...180	115...257	Basic	700	> 0.95	90.0	< 30	No	251 x 60 x 38	-40...+55	90	50 k <sup>1)</sup> /80 k <sup>4)</sup>	–	I	IP65	CE, CCC	20
OT (high current)	OT 100/220...240/4A2 P5	4052899 <b>410657</b>	220...240	24...100	24...48	SELV	2100...4200	> 0.99	88.0	< 25	No	212.5 x 68 x 42.5	-40...+55	85	50 k <sup>1)</sup> /100 k <sup>4)</sup>	–	I	IP65	CE, CCC	10
	OT 150/220...240/4A9 P5	4052899 <b>410671</b>	220...240	60...150	30...60	SELV	2450...4900	> 0.98	90.0	< 25	No	242.5 x 68 x 42.6	-40...+55	85	50 k <sup>1)</sup> /100 k <sup>4)</sup>	–	I	IP65	CE, CCC	10
	OT 200/220...240/5A6 P5	4052899 <b>410695</b>	220...240	70...200	35...70	SELV	2800...5600	> 0.98	91.0	< 25	No	252.5 x 68 x 42.6	-40...+50	85	50 k <sup>1)</sup> /100 k <sup>4)</sup>	–	I	IP65	CE, CCC	10
	OT 250/120...277/700 P5	4052899 <b>259041</b>	120...277	125...250	180...357	Basic	700	> 0.95	92.0	< 30	No	267 x 89 x 55	-40...+50	75	50 k <sup>1)</sup> /80 k <sup>4)</sup>	–	I	IP65	CE, CCC	20

NEW

NEW

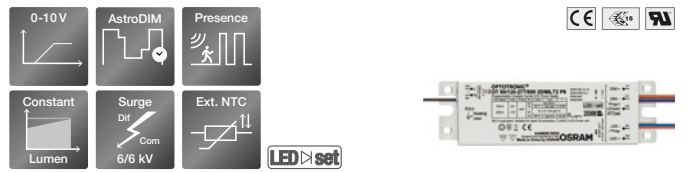
NEW

NEW



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 8 kV (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



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

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

\* 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 data sheet.



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





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

Application area	Product name	GTIN (EAN)	Nominal input voltage [V]	Max. out-put power [W]	Output voltage [V]	Rated current [mA] ± 5 %	Power factor	Efficiency (max.) [%]	Dimmable	Dimensions (L x W x H) [mm]	Ambient temperature range [°C]	T <sub>c</sub> max. [°C]	Lifetime [h]	Protec-tion class*	IP pro-tection	Certificates & approbations <sup>3)</sup>	Standard pack [pcs.]
Indoor	OT 8/200...240/24	4008321 <b>040169</b>	200...240	8	24	0.33	0.5	75	No	80 x 40 x 22	-20...+50	80	30 k <sup>1)</sup> /50 k <sup>2)</sup>	II	IP20	CE, ENEC, VDE, EMC	50
	OT 20/220...240/24	4050300 <b>618111</b>	220...240	20	24	0.83	0.8	83	No	109 x 50 x 35	-20...+45	70	30 k <sup>1)</sup> /50 k <sup>2)</sup>	II	IP20	CE, ENEC, VDE, VDE, EMC, RCM	20
	<b>1</b> OT 50/220...240/24	4052899 <b>905566</b>	220...240	50	24	2.08	0.95	85	No	242 x 40 x 16	-20...+45	95	30 k <sup>1)</sup> /50 k <sup>2)</sup>	II	IP20	CE, ENEC, CB, RCM, MM	20
	OT 75/220...240/24	4050300 <b>817477</b>	220...240	75	24	3.13	0.97	90	No	220 x 46.2 x 43.6	-20...+50	80	30 k <sup>1)</sup> /50 k <sup>2)</sup>	II	IP20	CE, ENEC, VDE, VDE, EMC, RCM, EAC	10
	<b>2</b> OTi DALI 50/220...240/24 1...4 CH	4052899 <b>452923</b>	220...240	50	24	2.08	0.98	92	DALI	346 x 32 x 22	-20...+45	70	30 k <sup>1)</sup> /50 k <sup>2)</sup>	II	IP20	CE, ENEC 10, VDE, VDE-EMC, RCM, EAC, CCC, BIS	20
	OTi DALI 50/220...240/24 TW	4052899 <b>490772</b>	220...240	50	24	2.08	0.98	92	DALI	346 x 32 x 22	-20...+45	70	30 k <sup>1)</sup> /50 k <sup>2)</sup>	II	IP20	CE, ENEC 10, VDE, VDE-EMC, RCM, EAC, CCC, BIS	20
	OTi DALI 80/220...240/24 1...4 CH	4052899 <b>452909</b>	220...240	80	24	3.33	0.98	93	DALI	346 x 32 x 22	-20...+45	75	30 k <sup>1)</sup> /50 k <sup>2)</sup>	II	IP20	CE, ENEC 10, VDE, VDE-EMC, RCM, EAC, CCC, BIS	20
	OTi DALI 80/220...240/24 TW	4052899 <b>490758</b>	220...240	80	24	3.33	0.98	98	DALI	346 x 32 x 22	-20...+45	75	30 k <sup>1)</sup> /50 k <sup>2)</sup>	II	IP20	CE, ENEC 10, VDE, VDE-EMC, RCM, EAC, CCC, BIS	20
	<b>3</b> OTi DALI DIM	4008321 <b>1061195</b>	10...24	120	10...24	5...10	–	97	DALI	172 x 42 x 20	-20...+50	60	30 k <sup>1)</sup> /50 k <sup>2)</sup>	II	IP20	CE, RCM, EAC, UR	20
	OT DMX RGB DIM	4008321 <b>160829</b>	10...24	144	10...24	6...12	–	97	DMX	172 x 42 x 20	-20...+50	80	30 k <sup>1)</sup> /50 k <sup>2)</sup>	II	IP20	CE, RCM, UR	20
	OT DIM	4050300 <b>943459</b>	10...24	120	10...24	5...10	–	96	1...10V	172 x 42 x 20	-20...+50	80	30 k <sup>1)</sup> /50 k <sup>2)</sup>	II	IP20	CE/UR/VDE/VDE-EMC	20
	<b>4</b> ELEMENT 30/220...240/24	4052899 <b>463776</b>	220...240	30	24	1.25	> 0.9	86	No	140 x 45 x 28	-20...+45	85	30 k <sup>1)</sup> /50 k <sup>2)</sup>	II	IP20	CE, CB	20
	ELEMENT 60/220...240/24	4052899 <b>463790</b>	220...240	60	24	2.50	> 0.9	86	No	239 x 46 x 30	-20...+50	85	30 k <sup>1)</sup> /50 k <sup>2)</sup>	II	IP20	CE, CB	20
	ELEMENT 90/220...240/24	4052899 <b>463813</b>	220...240	90	24	3.75	> 0.9	87	No	230 x 60 x 35	-20...+50	85	30 k <sup>1)</sup> /50 k <sup>2)</sup>	II	IP20	CE, CB	20
Outdoor	<b>5</b> OT 6/200...240/24 CE	4008321 <b>113269</b>	200...240	6	24	0.25	0.98	80	No	51 x 50 x 22	-20...+50	70	30 k <sup>1)</sup> /50 k <sup>2)</sup>	II	IP65	CE, ENEC, VDE, CB	50
	OT 30/220...240/24 P	4052899 <b>043497</b>	220...240	30	24	1.25	0.98	85	No	220 x 40 x 22	-25...+55	80	30 k <sup>1)</sup> /50 k <sup>2)</sup>	II	IP66	CE, ENEC, CB, RCM, BIS	30
	OT 50/220...240/24 P	4052899 <b>043510</b>	220...240	50	24	2.08	0.98	86	No	220 x 40 x 22	-25...+55	90	30 k <sup>1)</sup> /50 k <sup>2)</sup>	II	IP66	CE, ENEC, CB, RCM	30
	OT 75/220...240V/24 E	4008321 <b>362476</b>	220...240	75	24	3.13	0.95	89	No	241 x 43 x 30	-20...+60	85	30 k <sup>1)</sup> /50 k <sup>2)</sup>	I	IP64	CE, ENEC, VDE, VDE, EMC, CB, RCM	10
	OT 80/220...240/24 P	4008321 <b>1981684</b>	220...240	80	24	3.33	0.95	87	No	250 x 50 x 34	-25...+55	80	30 k <sup>1)</sup> /50 k <sup>2)</sup>	II	IP67	CE, ENEC, CB, MM, RCM, EAC, BIS	10
	OT 120/220...240/24 P	4008321 <b>1981707</b>	220...240	120	24	5.00	0.95	90	No	250 x 60 x 39	-25...+55	80	30 k <sup>1)</sup> /50 k <sup>2)</sup>	I	IP67	CE, ENEC, CB, MM, RCM, EAC, BIS	10
	OTe 120/220...240/24 E	4008321 <b>645715</b>	220...240	120	24	5.00	0.95	90	No	258 x 51 x 45	-10...+50	70	30 k <sup>1)</sup> /50 k <sup>2)</sup>	I	IP64	CE, CB, CCC, BIS	10
	<b>6</b> OT 240/220...240/24 P	4008321 <b>1981721</b>	220...240	240	24	10.00	0.95	93	No	250 x 80 x 39	-25...+55	80	30 k <sup>1)</sup> /50 k <sup>2)</sup>	I	IP67	CE, ENEC, CB, MM, RCM, EAC, BIS	8
	OT 80/220...240/24 DIM P	4008321 <b>1981677</b>	220...240	80	24	3.33	0.95	87	1...10V	250 x 50 x 34	-25...+55	80	30 k <sup>1)</sup> /50 k <sup>2)</sup>	II	IP67	CE, ENEC, CB, MM, RCM, EAC, BIS	10
	OT 120/220...240/24 DIM P	4008321 <b>1981691</b>	220...240	120	24	5.00	0.95	89	1...10V	250 x 60 x 39	-25...+55	80	30 k <sup>1)</sup> /50 k <sup>2)</sup>	I	IP67	CE, ENEC, CB, MM, RCM, EAC, BIS	10
	OT 240/220...240/24 DIM P	4008321 <b>1981714</b>	220...240	240	24	10.00	0.95	92	1...10V	250 x 80 x 39	-25...+55	80	30 k <sup>1)</sup> /50 k <sup>2)</sup>	I	IP67	CE, ENEC, CB, MM, RCM, EAC, BIS	8
	<b>7</b> OT 15/220...240/12 P	4052899 <b>905559</b>	220...240	15	12	1.25	> 0.5	80	No	237 x 20 x 22	-25...+55	80	30 k <sup>1)</sup> /50 k <sup>2)</sup>	II	IP66	CE, ENEC, CB, CCC, EAC	50
	OT 30/220...240/12 P	4052899 <b>905542</b>	220...240	30	12	2.50	> 0.95	85	No	220 x 40 x 22	-25...+55	80	30 k <sup>1)</sup> /50 k <sup>2)</sup>	II	IP66	CE, ENEC, CB, CCC, RCM, EAC, BIS	30
	OT 60/220...240/12 P	4008321 <b>790811</b>	220...240	60	12	5.00	> 0.98	86	No	180 x 50 x 34	-25...+55	80	30 k <sup>1)</sup> /50 k <sup>2)</sup>	II	IP67	CE, ENEC, CB, CCC, RCM, EAC, BIS	10
	OT 60/220...240/12 DIM P	4052899 <b>947054</b>	220...240	60	12	5.00	> 0.98	86	1...10V	211 x 50 x 34	-30...+50	75	30 k <sup>1)</sup> /50 k <sup>2)</sup>	II	IP67	CE, ENEC, CB, EAC	10
	OT 120/220...240/12 P	4008321 <b>790835</b>	220...240	120	12	10.00	0.98	88	No	241 x 60 x 39	-25...+55	80	30 k <sup>1)</sup> /50 k <sup>2)</sup>	I	IP67	CE, ENEC, CB, CCC, RCM, EAC, BIS	10
	OTe 60/110...277/12 E	4008321 <b>794338</b>	110...277	60	12	5.00	> 0.95	≥ 85	No	241 x 43 x 30	-25...+55	80	30 k <sup>1)</sup> /50 k <sup>2)</sup>	I	IP64	CE, CB, CCC, MM, BIS	10
	<b>8</b> OTe 120/110...277/12 E	4008321 <b>1821263</b>	110...277	120	12	10.00	> 0.95	≥ 85	No	258 x 51.2 x 44.5	-25...+55	80	30 k <sup>1)</sup> /50 k <sup>2)</sup>	I	IP64	CE, CB, CCC, MM, BIS	10

1



2



3



4



5



6



7



8



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

OT 240/220...240/24 P

OT 15/220...240/12 P

OTe 120/110-277/12 E



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

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)

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 %  
\* 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