



Light is a smart network

Digital infrastructure with DEXAL[®]

LED drivers with DEXAL[®] interface enable the easy connection of sensors and RF modules as well as the bidirectional data exchange within the luminaire.



Light is OSRAM

OSRAM

DEXAL® – for digital infrastructure in buildings

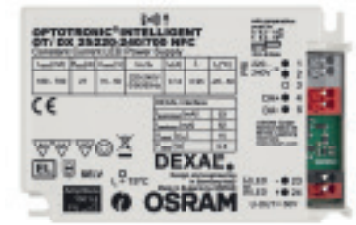
LED drivers with DEXAL® interface are the centerpiece of a digital ceiling that connects luminaires with integrated sensors and RF modules to set up a close-meshed, radio-based network. DEXAL® supplies RF modules and sensors with power and enables the bidirectional data exchange within the luminaire.

The RF module eventually transmits the data to the management system, where it is processed and analyzed. This connection of luminaires with the IoT opens up completely new possibilities for the integration of different subsystems within buildings and thus for their automated and optimized use.

OPTOTRONIC® DEXAL® Linear and Compact LED drivers



Linear	L	W	H
OTi 30/50	360 mm	30 mm	25.4 mm
OTi DX 35/75	360 mm	30 mm	21 mm
OTi DX 100/150	424 mm	30 mm	21 mm



Compact	L	W	H
OTi DX 25	103 mm	67 mm	29.5 mm
OTi DX 35	103 mm	67 mm	29.5 mm
OTi DX 50	110 mm	75 mm	25 mm

Product reference	GTIN (EAN)	Hz	V _N	V _{OUT}	I _[mA]	Ripple 100 Hz	W	⏏	T _a	W
Linear										
OTi 30/120-277/1A0 DX L	4052899345829	0/50/60	120...277	10...56	150...1050	< 1 %*	10...30	SELV	-30...+50	1...100 %
OTi 50/120-277/1A4 DX L	4052899345836	0/50/60	120...277	10...56	600...1400	< 1 %*	15...50	SELV	-30...+50	1...100 %
OTi DX 35/220-240/400 D NFC L	4052899590380	0/50/60	220...240	54...240	75...400	≤ 4 %	4...38	**	-25...+60	1...100 %
OTi DX 75/220-240/600 D NFC L	4052899590403	0/50/60	220...240	54...240	120...600	≤ 4 %	7...75	**	-25...+55	1...100 %
OTi DX 100/220-240/700 D NFC IND L	4062172050883	0/50/60	220...240	64...300	200...700	< 1 %	23...100	**	-40...+70	1...100 %
OTi DX 150/220-240/850 D NFC IND L	4062172050920	0/50/60	220...240	64...300	250...850	< 1 %	43...150	**	-40...+65	1...100 %
Compact										
OTi DX 25/220-240/700 NFC	4062172017947	0/50/60	220...240	15...50	180...700	< 3 %	7...27	SELV	-25...+50	1...100 %
OTi DX 35/220-240/1A0 NFC	4062172017961	0/50/60	220...240	15...50	350...1050	< 3 %	14...35	SELV	-25...+50	1...100 %
OTi DX 50/220-240/1A4 NFC	4062172061865	0/50/60	220...240	15...54	600...1400	< 3 %	22...55	SELV	-25...+50	1...100 %

* For output currents above 450 mA, PWM dimming with 460 Hz for lower currents

** Non-isolated

DALI/DEXAL® Bus Power Supply



	L	W	H
DALI PS 100 LI	108 mm	30 mm	21 mm

Product reference	GTIN (EAN)	Hz	V _N	I _[mA]	W	⏏	T _a
DALI PS 100 LI	4052899583221	0/50/60	220...240	100	3	Basic	-30...+60

- DALI bus power supply up to 100 mA
- Suitable for the power supply of DEXAL®-compatible sensors and RF modules
- Suitable for applications where no DEXAL® driver is available

DEXAL® – for smart connected street and industry lighting

The DEXAL® interface provides a future-proof solution for outdoor and industrial applications (highbay). In addition to the interface, this driver family offers a 24 V supply for larger power consumers such as radar sensors or RF modules with wider ranges. This combination interface is standardized in the Zhaga Book 18, allowing the development of luminaires that are compatible with numerous

system components. When setting up a wireless network, each luminaire can be used as a network node for a smart urban infrastructure. Even in case of upgrades or new wireless technology standards, the luminaires can be adapted at any time – without complete luminaire replacement.

OPTOTRONIC® DEXAL® Outdoor LED drivers



	L	W	H
OT DX 40	133 mm	77 mm	40 mm
OT DX 75	150 mm	90 mm	40 mm
OT DX 110/165	170 mm	100 mm	40 mm

Product reference

GTIN (EAN)



OT DX 40/220-240/1A0 DIMA LT2 E	4052899999664	0/50/60	220...240	15...56	200...1050	< 5 %	3...40	SELV	-40...+55	10...100 %
OT DX 75/220-240/1A0 DIMA LT2 E	4052899999671	0/50/60	220...240	35...110	200...1050	< 5 %	7...75	SELV	-40...+55	10...100 %
OT DX 110/220-240/1A0 DIMA LT2 E	4052899999688	0/50/60	220...240	80...220	200...1050	< 5 %	16...110	Double	-40...+55	10...100 %
OT DX 165/220-240/1A0 DIMA LT2 E	4052899999695	0/50/60	220...240	130...260	200...1050	< 5 %	26...165	Double	-40...+55	10...100 %

Benefit from plug-and-play solutions for smart networks



Lower wiring effort inside the luminaire



Less required luminaire space



Easy connection to different radio and sensor-based partner control systems



Lower system standby consumption



Less validation testing on luminaire level and shorter final production test



Advanced luminaire data*
(power, energy, operating hours etc.)

* See DEXAL® specifications Generation 1 and 2

Our partners for indoor applications

With the signet “Works with OSRAM DEXAL®”, our partners demonstrate to their customers the compatibility of their products with the OSRAM OPTOTRONIC® DEXAL® LED driver range. The following overview only shows a selection of our partners. A complete overview can be found at www.osram.com/dexal



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