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Product data sheet: B NLC DALI EL-T CONV for HubSense®

Bluetooth NLC Converter
For DALI Emergency luminaires

Product family benefits

DiiA D4I certified
Design freedom due to compact size
Easy to integrate in luminaire
Minimize internal wiring in combination with DEXAL drivers

Areas of application

Offices
Schools
Warehouse
Factories
Retails
Sports Hall

Benefits

Regular and emergency DALI luminaire controlled by a unique ecosystem

Time back-up

Fast and easy provisioning

Schedule Functional and Duration test

Immediate test result for maintenance

Works with OSRAM Hubsense

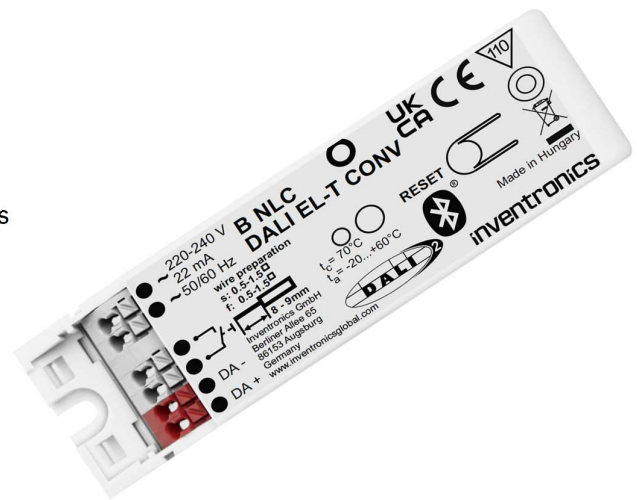**Approval marks**

CE, (SRRC) CE, Bluetooth, DALI,

Housing material: plastic

Product Features

- Schedule and trigger the functional and duration tests

- Time synchronization function in case of mains power off

- Support for Self-contained emergency (part 202)

- Small dimensions for built-in installations

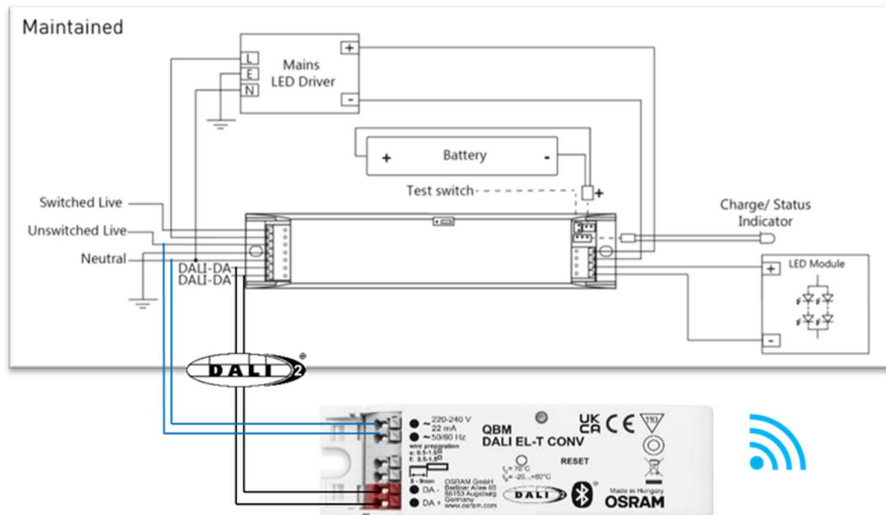- Battery status (if present)

- Failure reports

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Electrical Specifications

	Item	Value	Unit	Remarks
INPUT/ OUTPUT	Rated voltage	220 - 240	VAac	
	Mains frequency	50/60	Hz	
	Peak input current	30	mA	
	System wattage	1.90	W	
	Radio frequency	2.4	GHz	
	Max Tx Power	+8	dBm	2.512 mW
	Wireless protocol			Bluetooth NLC provided by SILVAIR
	Range	15	m	Line of sight
CAPABILITIES	Control interface			Qualified Bluetooth mesh
	Number of connected drivers	32	max	DALI-2 LED drivers
	Guaranteed supply current	82	mA	PIR and Light sensor
	Maximum supplied current	250	mA	
	Stand by power	<0.5	W	
	Dimmable	yes		
	Dimming interface	DALI-2		
	Backup time (clock function)	72	Hours	In case of mains power off (device must be tuned on first for 27h)
	Installations			In Luminaire (independent possible ->see accessory)
	Reset			Manual by button
	LEDs indicator			Blue: network status
ENVIRONMENT	Ambient temperature range t_a	-20 …+60	°C	
	Maximum case temperature t_c	70	°C	(50,000 hrs lifetime at max. Ta = 50°C / Tc = 60°C)
	Max. case temp. in fault condition	110	°C	
	Storage temperature range	-20 …+70	°C	
	Operating humidity	0 …85	%	
	Storage humidity	0 ... 95	%	Not condensing
	Environment rating	Indoor		
	IP rating	IP 20		
	Expected lifetime	50'000	h	Ta=60°C or Tc=70°C
DIMENSIONS AND WEIGHT	Length	108	mm	
	Width	30	mm	
	Height	21	mm	
	Product weight	44	mm	
	Wire preparation length, input side	8 … 9	mm	
	Cable cross section, input side	0.5…1.5	mm²	
	Wire preparation length, input side	8 … 9	mm	
	Cable cross section, input side	0.5…1.5	mm²	
STANDRDS	**CE** **LVD:** EN61347-2-11 **EMC:** EN 301 489-1 EN 301 489-17 EN 50581 EN 62479 EN 300 328 **DALI 2:** EN IEC 62386-101, EN IEC 62386-103 **RoHS & REACH compliance**			The QBM DALI EL-T Converter can only be used in Type-S EM Automatic Test Systems (ATS types defined by EN62034, Annex B). QBM DALI EL-T Device can only be used in combination with DALI DT1 Certified luminaires with self-test capabilities which are compliant with EN62034
	SRRC, CE, DALI-2			

Warning: Multiple emergency luminaires will be exposed to duration test on the exact same moment in time. Consequently, batteries of multiple emergency luminaires will be discharged simultaneously increasing safety risks in case of emergency situations that could happen right after duration testing.
It is recommended to make sure that duration tests are configured so that tests conducted by the ATS (Automatic Test Systems) are not made on two adjacent luminaires at the same time.

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Installation Tips

Compatibility list

Product name	Manufacturer
XYLUX LR4/D1	Mackwell
MIDI55/3W/D1	Mackwell
EMpowerLED 1W PRO EZ-3	Tridonic
Tridonic EMpower PROset E1D	Tridonic
Tridonic EMpower PROset E3D	Tridonic
SYLSAFE IP65 LED	Sylvania
RouteLED DALI	Concord
SylSafe XSpot OA R EM3 NM DA	Sylvania
Emergency Pack Dali 50V-200V	Sylvania

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Additional product information

- By integrating the device into a casing, the wireless range could be affected by metal surfaces. Therefore, the wireless range needs to be verified after integration.
- The device could be reset to factory default by pressing the button (cfr User Instruction)
- The status LED of the device indicates following Network status
> Blue LED Indicator:
> • Success connection: LED indicator flashes 2s at once
> • No connections: LED indicator flashes 0.3s at once
> Reset to factory settings:
> LED indicator flashes 1s at once, then quickly flashes and disappears
- The device has passed successfully the SILVAIR Testing process.
- The device can be put into operation using the OSRAM HubSense Commissioning Tool (https://platform.hubsense.eu), subject to prior acceptance of the Terms of Use and the Privacy Policy.
- OSRAM may terminate or suspend the use of the HubSense Commissioning Tool at any time and for any or no reason in its sole discretion, even if access and use is continued to be allowed to others.
- The device complies with Bluetooth mesh Standard v1.0. It can also be used in 3rd party Bluetooth mesh network, that complies with this standard and that supports the mesh models of this device, and with certain 3rd party commissioning tools, that support the mesh models of this device. In order to ensure correct interoperability a verification with the 3rd party network components and the 3rd party commissioning tool is necessary in advance. Please contact OSRAM (support@hubsense.eu) to receive the actual list of supported models for this device.
- OSRAM shall have no liability for any 3rd party commissioning tool and does not make any representations, express or implied, about the availability and/or performance of such commissioning tool.
- OSRAM shall have no liability for and does not make any representations, express or implied, about the connectivity of OSRAM qualified Bluetooth mesh products with any other products, that have passed the SILVAIR Testing process

ordering information

Product type	EAN10
B NLC DALI EL-T CONV	6977078990622

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