

PRODUCT DATASHEET

QTi DALI 2X35/49/80 DIM

QUICKTRONIC INTELLIGENT DALI DIM T5 | ECG dimmable DALI for FL 16 mm



AREAS OF APPLICATION

- Suitable for use in emergency lighting systems as per EN 50172/DIN VDE 0108-100
- Installation in emergency lighting systems according to IEC 61347-2-3, appendix J
- Industry
- Open-plan offices, corridors and storage rooms
- Public buildings
- Sports halls and factories
- Strip lighting
- Shop lighting
- Suitable for luminaires of protection class I

PRODUCT BENEFITS

- System+ Guarantee available
- Easy integration in luminaire thanks to same dimensions like DALI GI ECG
- TouchDIM function for easy and inexpensive dimming of several ECGs
- Same luminous flux with direct and alternating current
- Dimming of amalgam lamps without flickering or reduced lifespan
- Automatic restart after lamp replacement

DALI PRODUCT FEATURES

- Control via the DALI interface
- Compliance with the DALI Version-1 and IEC 60929
- Control input protected against overvoltage and polarity reversal (OSRAM ECG)

TOUCH DIM AND TOUCH DIM SENSOR FUNCTION

- Manual dimming without controller and with standard switches
- Including memory function (double click) and soft start

PRODUCT FEATURES

- Corridor function for direct connection of ECG to common motion sensor
- Corridor function with pre-programmed light program
- Touch DIM function for free parameterization of light value and turn on time
- Fit for SMART GRID for feedback of consumed mains power and lamp operating hours
- Fit for Emergency function for automatic detection of emergency lighting by ECG
- Very low standby power consumption: < 0.2 W (A1 BAT)
- Lifetime: > 100,000 h (for T = 65 °C at T_c)
- Very high number of switching cycles: up to 300,000
- Dimming range: 1...100 % (3...100 % with compact fluorescent lamp)
- POWER2LAMP function for optimal matching of ECG power to lamp during lamp lifetime
- Line frequency: 0 Hz, 50...60 Hz, rectified AC

TECHNICAL DATA

Electrical data

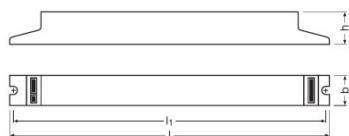
Input voltage AC	198...264 V
Nominal voltage	220...240 V
Mains frequency	50...60 Hz
Input voltage DC	154...276 V
Operating frequency	44...120 kHz
Max. ECG no. on circuit breaker 10 A (B)	5 ¹⁾
Max. ECG no. on circuit breaker 16 A (B)	9 ¹⁾
Power loss in stand-by mode	0.2 W
Inrush current	60 A

¹⁾ Type B

Light technical data

Starting time	0.6 s
----------------------	-------

Dimensions & weight



Length	423.0 mm
---------------	----------

Width	30.0 mm
Height	21.0 mm
Mounting hole spacing, length	415.0 mm
Product weight	370.00 g
Wire preparation length, input side	8.0...9.0 mm ¹⁾
Wire preparation length, output side	8.0...9.0 mm ¹⁾
Cable cross-section, output side	0.5...1.5 / 0.5...1.0 mm ² ²⁾
Cable cross-section, input side	0.5...1.5 / 0.5...1.0 mm ² ²⁾

¹⁾ Combi wiring

²⁾ Solid leads / Flexible

Temperatures & operating conditions

Ambient temperature range	+10...+50 °C
Permitted rel. humidity during operation	5...85 %

Lifespan

ECG lifetime	100000 h ¹⁾
---------------------	------------------------

¹⁾ At $T_{case} = 65^{\circ}\text{C}$ at T_c point / 10% failure rate

Expected Lifetime

Product name	Lamp group				
QTI DALI 2X35/49/80 DIM	HE 35 W	ECG ambient temperature [ta]	40	50	60
		Temperature at tc-point [°C]	50	60	70
		Lifetime [h]	100000	100000	100000
	HO 45 W ES	ECG ambient temperature [ta]	40	50	60
		Temperature at tc-point [°C]	50	60	70
		Lifetime [h]	100000	100000	100000
	HO 49 W	ECG ambient temperature [ta]	40	50	60
		Temperature at tc-point [°C]	50	60	70
		Lifetime [h]	100000	100000	100000
	HO 49 W CONSTANT	ECG ambient temperature [ta]	40	50	60
		Temperature at tc-point [°C]	50	60	70
		Lifetime [h]	100000	100000	100000
	HO 73 W ES	ECG ambient temperature [ta]	40	50	60
		Temperature at tc-point [°C]	60	70	75
		Lifetime [h]	100000	100000	80000
	HO 80 W	ECG ambient temperature [ta]	40	50	60
		Temperature at tc-point [°C]	60	70	75
		Lifetime [h]	100000	100000	80000
	HO 80 W CONSTANT	ECG ambient temperature [ta]	40	50	60
		Temperature at tc-point [°C]	60	70	75
		Lifetime [h]	100000	100000	80000
	HO 80 W XT	ECG ambient temperature [ta]	40	50	60
		Temperature at tc-point [°C]	60	70	75
		Lifetime [h]	100000	100000	80000

Capabilities

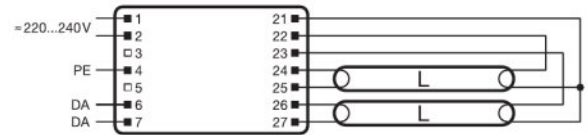
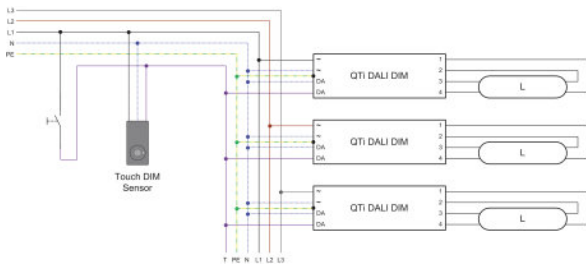
Dimming interface	DALI / Touch DIM / Touch DIM Sensor
Dimming range	1...100 % ¹⁾
Dimmable	Yes
Overload protection	Yes
Overheating protection	Power reduction and switch off at T > 75 °C at the tc point
Suitable for fixtures with prot. class	I
End of lamp life safety shutdown	EOL T.2

¹⁾ Luminous flux

Certificates & standards

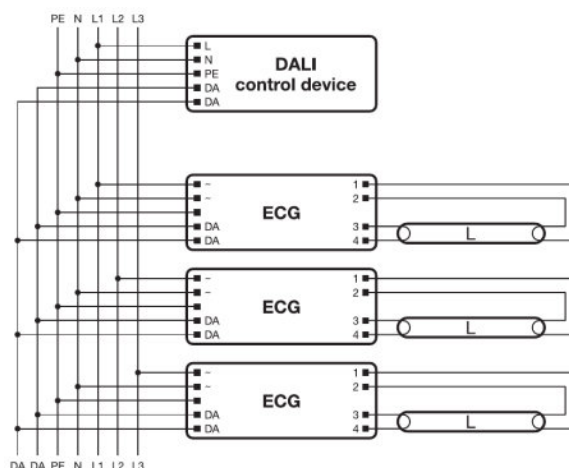
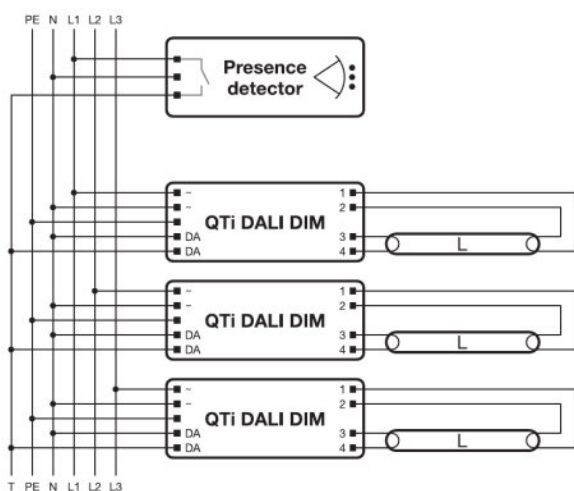
Approval marks – approval	VDE / VDE-EMC / ENEC 10 / EL / GOST / RCM / CCC
Standards	Acc. to EN 61347-2-3/Acc. to EN 60929/Acc. to EN 55015:2006 + A1:2007/Acc. to EN 61000-3-2/Acc. to EN 61547/Acc. to IEC 62386-101:Ed1/Acc. to IEC 62386-102:Ed1
EEI – Energy Label	A1 BAT
Protection class	I
Type of protection	IP20

Wiring Diagram



Wiring diagram













Wiring diagram










Wiring diagram

Wiring diagram

DOWNLOAD DATA

File	
	Addon Technical Information 502689_Frequent switching Quicktronic
	Addon Technical Information 502785_ECG lifetime - QUICKTRONIC (DALI) DIM
	Brochures 333874_Bochure – DALI partner
	Certificates 554891_EAC PT family
	Certificates 335097_INOTEC
	Certificates 335125_ENECVDE-Marks approval
	Certificates 335135_Manufacturer's declaration – Burning-in of fluorescent lamps
	Certificates 335153_Manufacturer's declaration – Low stand-by
	Certificates 335154_Manufacturer's declaration – EN 55015:2006+A1:2007 (300 MHz)
	Certificates 335169_Manufacturer's declaration – LampECG combinations: Frequent switching
	Certificates 504208_VDE-EMC-CERTIFICATE QTi DALI DIM
	Declarations of conformity 334957_Declaration of conformity

	Installation/Operation notice 334142_Technical guide - ECGs for T5-lamps
	Installation/Operation notice 493509_Technical application guide QUICKTRONIC Intelligent DALI DIM (GB)
	Operating instructions 592411_EAC QTi T5 DALI DIM
	CAD data 3-dim 313428_423x30x21 1881282
	CAD data 3-dim 313430_423x30x21 1881282
	CAD data 3-dim 313444_423x30x21 1881282
	CAD data PDF 313416_423x30x21 1881282

LOGISTICAL DATA

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4050300870441	QTi DALI 2X35/49/80 DIM	Shipping carton box 20	435 mm x 96 mm x 170 mm	7.10 dm ³	7642.00 g

The mentioned product code describes the smallest quantity unit which can be ordered. One shipping unit can contain one or more single products. When placing an order, for the quantity please enter single or multiples of a shipping unit.

REFERENCES / LINKS

For more information on the system guarantee and the terms and conditions of the guarantee visit

- ▶ www.ledvance.com/system-guarantee

DISCLAIMER

Subject to change without notice. Errors and omission excepted. Always make sure to use the most recent release.

QUICKTRONIC INTELLIGENT DALI DIM T5 | ECG dimmable DALI for FL 16 mm

Product name	Lamp group	Nominal current	Nominal wattage + Power loss	Luminous flux at 35 °C	Number of lighting outlets
QTi DALI 2X35/49/80 DIM	DULUX L 80 W	0.74 A	165.00 W	6000 lm	2
	DULUX L 80 W CONSTANT	0.74 A	165.00 W	6000 lm	2
	HE 35 W	0.34 A	74.00 W	3300 lm	2
	HE 35 W XT	0.34 A	74.00 W	3300 lm	2
	HO 45 W ES	0.45 A	101.00 W	4600 lm	2
	HO 49 W	0.46 A	101.00 W	4300 lm	2
	HO 49 W CONSTANT	0.46 A	101.00 W	4450 lm	2
	HO 73 W ES	0.72 A	165.00 W	6400 lm	2
	HO 80 W	0.74 A	165.00 W	6150 lm	2
	HO 80 W CONSTANT	0.74 A	165.00 W	6800 lm	2
	HO 80 W XT	0.74 A	165.00 W	6150 lm	2