

## PRODUCT DATASHEET

### QTi 2X21/39 DIM

QUICKTRONIC INTELLIGENT DIM T5 | ECG dimmable 1...10 V for FL 16 mm



#### AREAS OF APPLICATION

- Suitable for emergency installations
- Industry
- Open-plan offices, corridors and storage rooms
- Public buildings
- Suitable for luminaires of protection class I

#### PRODUCT FAMILY BENEFITS

- Same luminous flux with direct and alternating current
- Perfect lamp start for applications with motion sensors
- Dimming of amalgam lamps without flickering or reduced lifespan
- Very high efficiency thanks to cut-off technology
- Automatic restart after lamp replacement
- ECGs comply with MINERGIE standard due to very low standby consumption
- Configurable emergency power characteristics

#### PRODUCT FAMILY FEATURES

- Control via 1...10 V interface
- Supply voltage: 220...240 V
- Line frequency: 0 Hz | 50 Hz | 60 Hz
- Line voltage: 198...264 V
- Dimming range: 1...100 % luminous flux
- Lamp start: within 0.6 s
- Lifetime: > 100,000 h (for  $T = 65\text{ °C}$  at  $T_c$ )
- Automatic shutdown of defective lamps and at end of life (EoL T.2)
- Energy Efficiency Index EEI: A1 BAT
- Overtemperature protection: Thermal management at high  $t_c$  temperatures

- Safety: to EN 61347-2-3
- Lamp operation: to EN 60929
- RI suppression: to EN 55015:2006+A1:2007+A2:2009/CISPR 15
- Line harmonics according to EN 61000-3-2
- Immunity according to EN 61547

**TECHNICAL DATA**

Electrical data

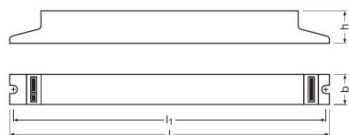
<b>Input voltage AC</b>	198...264 V
<b>Nominal voltage</b>	220...240 V
<b>Mains frequency</b>	50...60 Hz
<b>Input voltage DC</b>	154...276 V
<b>Operating frequency</b>	44...120 kHz
<b>Max. ECG no. on circuit breaker 10 A (B)</b>	8 <sup>1)</sup>
<b>Max. ECG no. on circuit breaker 16 A (B)</b>	13 <sup>1)</sup>
<b>Inrush current</b>	45 A

<sup>1)</sup> Type B

Light technical data

<b>Starting time</b>	0.6 s
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Dimensions & weight



<b>Length</b>	423.0 mm
<b>Width</b>	30.0 mm
<b>Height</b>	21.0 mm
<b>Mounting hole spacing, length</b>	415.0 mm
<b>Product weight</b>	370.00 g
<b>Wire preparation length, input side</b>	8.0...9.0 mm <sup>1)</sup>
<b>Wire preparation length, output side</b>	8.0...9.0 mm <sup>1)</sup>
<b>Cable cross-section, output side</b>	0.5...1.5 / 0.5...1.0 mm <sup>2</sup> <sup>2)</sup>
<b>Cable cross-section, input side</b>	0.5...1.5 / 0.5...1.0 mm <sup>2</sup> <sup>2)</sup>

- 1) Combi wiring
- 2) Solid leads / Flexible

Temperatures & operating conditions

<b>Ambient temperature range</b>	+10...+50 °C
<b>Permitted rel. humidity during operation</b>	5...85 % <sup>1)</sup>

<sup>1)</sup> Maximum 56 days/year at 85 %

Lifespan

<b>ECG lifetime</b>	100000 h <sup>1)</sup>
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<sup>1)</sup> At  $T_{case} = 65^{\circ}C$  at  $T_c$  point / 10% failure rate

Capabilities

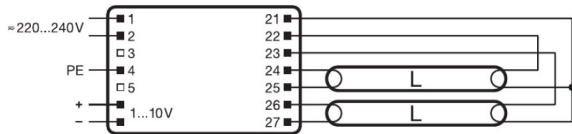
<b>Dimming interface</b>	1...10 V
<b>Dimming range</b>	1...100 % <sup>1)</sup>
<b>Dimmable</b>	Yes
<b>Overload protection</b>	Automatic switch off, reversible
<b>Overheating protection</b>	Power reduction and switch off at $T > 75^{\circ}C$ at the tc point
<b>Suitable for emergency lighting</b>	Yes
<b>Suitable for fixtures with prot. class</b>	I
<b>End of lamp life safety shutdown</b>	EOL T.2

<sup>1)</sup> Luminous flux

Certificates & standards












<b>Approval marks – approval</b>	VDE / VDE-EMC / EL / EAC / RCM / CCC
<b>Standards</b>	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
<b>EEL – Energy Label</b>	A1 BAT
<b>Protection class</b>	I
<b>Type of protection</b>	IP20











Wiring Diagram



Wiring diagram

DOWNLOAD DATA

File	
	Addon Technical Information 502689_Frequent switching Quicktronic
	Addon Technical Information 502785_ECG lifetime - QUICKTRONIC (DALI) DIM
	Product Datasheet 321500_ATI QT <sub>i</sub> 2X2139220-240 DIM (G+GB)
	Brochures 335514_Applications and luminaires solutions
	Certificates 554891_EAC PT family
	Certificates 334953_EMC-Marks approval
	Certificates 335097_INOTEC
	Certificates 335125_ENECVDE-Marks approval
	Certificates 335135_Manufacturer's declaration &#150; Burning-in of fluorescent lamps
	Certificates 335153_Manufacturer's declaration &#150; Low stand-by
	Certificates 335154_Manufacturer's declaration &#150; EN 55015:2006+A1:2007 (300 MHz)

	Certificates 335169_Manufacturer's declaration &#150; 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 592412_EAC QTi T5 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	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4050300870694	Unpacked 1	- x - x -	370.00 g	
4050300870700	Shipping carton box 20	455 mm x 98 mm x 163 mm	7640.00 g	7.27 dm <sup>3</sup>

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.

**DISCLAIMER**

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

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Product name	Lamp group	Nominal current	Nominal wattage + Power loss	Luminous flux at 35 °C	Number of lighting outlets
QTi 2X21/39 DIM	DULUX L 22 W HE	0.21 A	45.00 W	2000 lm	2
	DULUX L 40 W	0.36 A	82.00 W	3500 lm	2
	DULUX L 40 W CONSTANT	0.36 A	82.00 W	3500 lm	2
	FC 40 W	0.36 A	82.00 W	3100 lm	2
	HE 21 W	0.21 A	45.00 W	1900 lm	2
	HE 21 W SLS	0.21 A	45.00 W	1900 lm	2
	HO 39 W	0.36 A	82.00 W	3100 lm	2
	HO 39 W CONSTANT	0.36 A	82.00 W	3400 lm	2
	HO 39 W SLS	0.36 A	80.00 W	3100 lm	2
	L 70 W	0.56 A	128.00 W	6200 lm	2