

## QTi 1X21/39 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 datasheet

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### 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 °C at T<sub>c</sub>)
- 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<sub>c</sub> 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

# Product datasheet

## 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)	17 <sup>1)</sup>
Max. ECG no. on circuit breaker 16 A (B)	28 <sup>1)</sup>
Inrush current	24 A

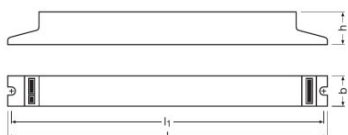
<sup>1)</sup> Type B

### Light technical data

Starting time	0.6 s <sup>1)</sup>
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<sup>1)</sup> Optimized preheat start

### Dimensions & weight



Length	360.0 mm
Width	30.0 mm
Height	21.0 mm
Mounting hole spacing, length	350.0 mm
Product weight	276.00 g
Cable cross-section, output side	0.5...1.5 / 0.5...1.0 mm <sup>2</sup> <sup>1)</sup>
Cable cross-section, input side	0.5...1.5 / 0.5...1.0 mm <sup>2</sup> <sup>1)</sup>

<sup>1)</sup> Solid leads / Flexible

### Temperatures & operating conditions

Ambient temperature range	+10...+50 °C
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## Product datasheet

Permitted rel. humidity during operation	5...85 % <sup>1)</sup>
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<sup>1)</sup> Maximum 56 days/year at 85 %

### Lifespan

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

### Additional product data

Suitable for lamp power (1 lamp)	21...39 W
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### Capabilities

Dimming interface	1...10 V
Dimming range	1...100 % <sup>1)</sup>
Dimmable	Yes
Overheating protection	Power reduction and switch off at $T > 75^{\circ}\text{C}$ at the tc point
Suitable for emergency lighting	Yes
Suitable for fixtures with prot. class	I
End of lamp life safety shutdown	EOL T.2
Max. cable length to lamp/LED module	1.0 m / 1.5 m

<sup>1)</sup> Luminous flux

### Certificates & standards

Approval marks – approval	VDE / VDE-EMC / EL / EAC / 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
EEI – Energy Label	A1 BAT
Protection class	I
Type of protection	IP20

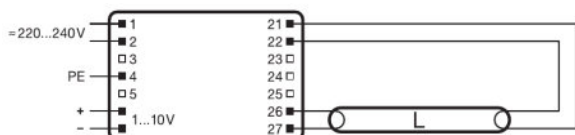
### Logistical data

Commodity code	850410809000
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## Product datasheet

### Wiring Diagram

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### Wiring diagram










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### Download Data

File	
	Addon Technical Information 502689_Frequent switching Quicktronic
	Addon Technical Information 502785_ECG lifetime - QUICKTRONIC (DALI) DIM
	Product Datasheet 321496_ATI QT <sub>i</sub> 1X2139220-240 DIM (G+GB)
	Certificates 334953_EMC-Marks approval
	Certificates 335097_INOTEC
	Certificates QTI DALI VDE 40021252 210920
	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

## Product datasheet

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	Certificates 592319_EAC certificate for Quicktronics QT
	Certificates 504208_VDE-EMC-CERTIFICATE QTI DALI DIM
	Declarations of conformity 334771_Declaration of conformity
	Installation/Operation notice 334142_Technical guide - ECGs for T5-lamps
	Operating instructions 592412_EAC QTi T5 DIM
	CAD data 3-dim 313432_360x30x21 1881281
	CAD data 3-dim 313433_360x30x21 1881281
	CAD data 3-dim 313453_360x30x21 1881281
	CAD data PDF 313406_360x30x21 1881281

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## Logistical Data

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4050300870564	QTi 1X21/39 DIM	Shipping carton box 20	392 mm x 98 mm x 165 mm	6.34 dm <sup>3</sup>	6319.99 g

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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.

## QTi 1X21/39 DIM

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

Product name	Lamp group	Nominal current	Nominal wattage + Power loss	Luminous flux at 35 °C	Number of lighting outlets
QTi 1X21/39 DIM	DULUX L 40 W	0.18 A	41.80 W	3500 lm	1
	FC 40 W	0.18 A	42.00 W	3100 lm	1
	HE 21 W	0.11 A	23.10 W	1900 lm	1
	HO 39 W	0.18 A	41.80 W	3100 lm	1