

## QTi 1X14/24/21/39 GII

QUICKTRONIC INTELLIGENT | ECG for FL 16 mm



### Product family features

- Supply voltage: 220...240 V
- Line voltage: 198...264 V
- Line frequency: 0 Hz | 50 Hz | 60 Hz
- Lamp start with optimum filament preheating
- Lifetime: > 100,000 h (for T = 65 °C at T<sub>2</sub>)
- Energy Efficiency Index EEI: A2 BAT
- Automatic shutdown of defective lamps and at end of life (EoL T.2)
- Safety: to EN 61347-2-3
- Lamp operation: to EN 60929

### Product family benefits

- Long lamp life
- No adverse effect from frequent on/off switching
- Automatic restart after lamp replacement
- Perfect lamp start for applications with motion sensors
- VDE/VDE EMC certified system
- Very high energy efficiency due to cut-off technology

### Areas of application

- Emergency lighting systems acc. to EN 50172 / DIN VDE 0108-100
- Industry
- Open-plan offices, corridors and storage rooms
- Public buildings
- Sports halls and factories
- Strip lighting
- Suitable for emergency lighting (DC operation)
- Modernization of existing systems
- Suitable for luminaires of protection classes I and II

## 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	176...276 V
Maximum output power	39 W
Efficiency in full-load	91 % <sup>1)</sup>
Operating frequency	42...85 kHz
Max. ECG no. on circuit breaker 10 A (B)	17 <sup>2)</sup>
Max. ECG no. on circuit breaker 16 A (B)	28 <sup>2)</sup>
Inrush current	24 A

<sup>1)</sup> at 230 V, 50 Hz

<sup>2)</sup> Type B

#### Light technical data

Starting time	1.0 s <sup>1)</sup>
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<sup>1)</sup> If there is a temporary interruption in the power supply (< 0.5 s), the lamp will start within 0.3 s

#### Dimensions & weight



Length	360.0 mm
Width	30.0 mm
Height	21.0 mm
Mounting hole spacing, length	350.0 mm
Product weight	210.25 g

#### Temperatures & operating conditions

Ambient temperature range	-20...+50 °C
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## Product datasheet

<b>Permitted rel. humidity during operation</b>	5...85 % <sup>1)</sup>
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<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  $T_{point}$  / 10% failure rate

### Expected Lifetime

Product name	Lamp group				
QTi 1X14/24/21/39 GII	HE 14 W	ECG ambient temperature [ta]	40	50	60
		Temperature at tc-point [°C]	45	55	65
		Lifetime [h]	100000	100000	100000
	HE 21 W	ECG ambient temperature [ta]	40	50	60
		Temperature at tc-point [°C]	45	55	65
		Lifetime [h]	100000	100000	100000
	HO 24 W	ECG ambient temperature [ta]	40	50	60
		Temperature at tc-point [°C]	50	60	65
		Lifetime [h]	100000	100000	90000
	HO 39 W	ECG ambient temperature [ta]	40	50	60
		Temperature at tc-point [°C]	50	60	65
		Lifetime [h]	100000	100000	80000

### Additional product data

<b>Suitable for lamp power (1 lamp)</b>	14...39 W
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### Capabilities

<b>Suitable for fixtures with prot. class</b>	I / II
<b>End of lamp life safety shutdown</b>	EOL T.2
<b>Max. cable length to lamp/LED module</b>	2.0 m / 1.0 m
<b>Dimmable</b>	No
<b>Intended for no-load operation</b>	No

### Certificates & standards

<b>Approval marks – approval</b>	VDE / VDE-EMC / ENEC 10 / CE
<b>EEI – Energy Label</b>	A2 BAT
<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



## Product datasheet















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### Additional product information

- In order to achieve good radio interference suppression:1. Keep the cable between ECG and lamp as short as possible.2. The single lamp wires must be routed as close as possible to each other, whereas the lines of the different lamp ends must be routed separately.

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### Download Data

File	
	User instruction QUICKTRONIC QT <sub>i</sub> T5
	Addon Technical Information 502689_Frequent switching Quicktronic
	Product Datasheet 502688_ECG lifetime - QUICKTRONIC non DIM
	Certificates 334970_EMC-Marks approval
	Certificates 334971_ENEC-Marks approval
	Certificates 335097_INOTEC
	Certificates 335169_Manufacturer's declaration &#150; LampECG combinations: Frequent switching
	Certificates 592319_EAC certificate for Quicktronics QT
	Certificates 504180_VDE-ENEC-Certificate QT <sub>i</sub>
	Certificates 504207_VDE-EMC-Certificate QT <sub>i</sub>
	Declarations of conformity QUICKTRONIC CE 3364256 190821
	CAD data 3-dim 321772_QT <sub>i</sub> GII
	CAD data 3-dim 321773_QT <sub>i</sub> GII
	CAD data PDF 321774_QT <sub>i</sub> GII

## Product datasheet

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### Ecodesign regulation information:

Separate control gear and light sources must be disposed of at certified disposal companies in accordance with Directive 2012/19/EU (WEEE) in the EU and with Waste Electrical and Electronic Equipment (WEEE) Regulations 2013 in the UK. For this purpose, collection points for recycling centres and take-back systems (CRSO) are available from retailers or private disposal companies, which accept separate control gear and light sources free of charge. In this way, raw materials are conserved and materials are recycled.

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### Logistical Data

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4008321383334	QTi 1X14/24/21/39 GII	Shipping carton box 20	392 mm x 98 mm x 165 mm	6.34 dm <sup>3</sup>	4424.79 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.

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### Disclaimer

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

## QTi 1X14/24/21/39 GII

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Product name	Lamp group	Nominal current	Nominal wattage + Power loss	Power factor $\lambda$ [PIM]	Luminous flux at 35 °C	Number of lighting outlets
QTi 1X14/24/21/39 GII	DULUX F 36 W	0.15 A	34.00 W	0.96	2750 lm	1
	DULUX L 36 W	0.15 A	34.00 W	0.96	2750 lm	1
	DULUX L 40 W	0.19 A	44.00 W	0.98	3500 lm	1
	FC 22 W	0.15 A	25.00 W	0.94 c	1800 lm	1
	FC 40 W	0.19 A	43.00 W	0.96	3200 lm	1
	HE 13 W ES	0.07 A	15.00 W	0.91 c	1150 lm	1
	HE 14 W	0.08 A	16.00 W	0.92 c	1200 lm	1
	HE 19 W ES	0.10 A	22.00 W	0.94 c	1800 lm	1
	HE 21 W	0.11 A	24.00 W	0.94 c	1900 lm	1
	HE 25 W ES	0.13 A	29.00 W	0.95	2500 lm	1
	HE 28 W	0.15 A	33.00 W	0.99	2700 lm	1
	HE 32 W ES	0.16 A	36.00 W	0.96	3150 lm	1
	HE 35 W	0.18 A	39.00 W	0.97	3300 lm	1
	HE 35 W XT	0.18 A	39.00 W	0.97	3300 lm	1
	HO 24 W	0.12 A	26.00 W	0.96	1750 lm	1
	HO 39 W	0.18 A	41.00 W	0.98	3100 lm	1
	L 18 W	0.09 A	19.00 W	0.93 c	1350 lm	1

## Product datasheet

Product name	Lamp group	Nominal current	Nominal wattage + Power loss	Power factor $\lambda$ [PIM]	Luminous flux at 35 °C	Number of lighting outlets
	L 36 W	0.09 A	35.00 W	0.96	3350 lm	1
	L 38 W	0.09 A	35.00 W	0.96	3300 lm	1