

QTi 1X28/54/35/49 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 T₂)
- 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	54 W
Efficiency in full-load	92 % ¹⁾
Operating frequency	42...85 kHz
Max. ECG no. on circuit breaker 10 A (B)	17 ²⁾
Max. ECG no. on circuit breaker 16 A (B)	28 ²⁾
Inrush current	24 A

¹⁾ at 230 V, 50 Hz

²⁾ Type B

Light technical data

Starting time	1.0 s ¹⁾
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¹⁾ 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	235.00 g

Temperatures & operating conditions

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

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

Lifespan

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

Expected Lifetime

Product name	Lamp group				
QTi 1X28/54/35/49 GII	HE 28 W	ECG ambient temperature [ta]	40	50	60
		Temperature at tc-point [°C]	45	55	65
		Lifetime [h]	100000	100000	100000
	HE 35 W	ECG ambient temperature [ta]	40	50	60
		Temperature at tc-point [°C]	45	55	65
		Lifetime [h]	100000	100000	100000
	HO 49 W	ECG ambient temperature [ta]	40	50	60
		Temperature at tc-point [°C]	50	55	65
		Lifetime [h]	100000	100000	90000
	HO 54 W	ECG ambient temperature [ta]	40	50	60
		Temperature at tc-point [°C]	50	60	70
		Lifetime [h]	100000	100000	80000

Additional product data

Suitable for lamp power (1 lamp)	28...54 W
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Capabilities

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

Certificates & standards

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

Product datasheet

Protection class	II
Type of protection	IP20

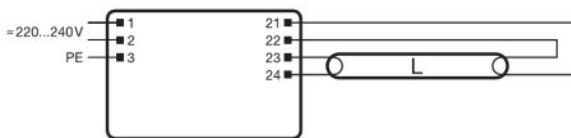
Logistical data

Commodity code	850410809000
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Environmental information

Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACH)	
Date of Declaration	14-04-2022
Primary Article Identifier	4008321383358
Candidate List Substance 1	Lead
CAS No. of substance 1	7439-92-1
Safe Use Instruction	The identification of the Candidate List substance is sufficient to allow safe use of the article.
Declaration No. in SCIP database	f9abf8f4-64d4-455f-a8d0-085dc52ab19d

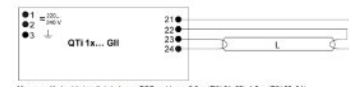
Wiring Diagram



QUICKTRONIC® QT*i* T5

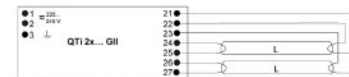
	QT1 1x16/2x17/18 GII	QT1 1x28/2x34/35 GII	QT1 1x35/2x38 GII	QT1 2x41/2x41/39 GII	QT1 2x28/2x34/35 GII	QT1 2x41/2x41/39 GII
1000 lm	135 mA	125 mA	84 mA	84 mA	84 mA	84 mA
1000 lm	8 mA	8 mA	8 mA	8 mA	8 mA	8 mA
1000 lm	0.20 A	0.20 A	0.13 A	0.13 A	0.13 A	0.13 A
1000 lm	$\leq 100 \mu s$	$\leq 24 \mu s$	$\leq 100 \mu s$	$\leq 100 \mu s$	$\leq 100 \mu s$	$\leq 100 \mu s$

QT1 1x16/2x17/18 GII, QT1 1x28/2x34/35 GII, QT1 1x35/2x38 GII



Max. permitted cable length in between ECG and lamp: 2.0 m (PIN 21; 22); 1.0 m (PIN 23; 24)

QT1 2x41/2x41/39 GII, QT1 2x28/2x34/35 GII, QT1 2x38/38/38 GII



Max. permitted cable length in between ECG and lamp: 2.0 m (PIN 21; 22; 25); 1.0 m (PIN 24; 25; 26; 27)

QT1 2x... GII
①) Max. cable length between ECG and lamp. Limited by the manufacturer's performance general advice under IEC 60969-10000.
 ②) Reference: see www.osram.com/quicktronic/quicktronic-de/quicktronic

OSRAM

319619_QTi 1x..
















592500_EAC QTi T5

Product datasheet

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.

Download Data

File	
	User instruction QUICKTRONIC QT _i T5
	Addon Technical Information 502689_Frequent switching Quicktronic
	Product Datasheet 321453_ATI QT _i 1X28543549 GII (G+GB)
	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 – LampECG combinations: Frequent switching
	Certificates 592319_EAC certificate for Quicktronics QT
	Certificates 504180_VDE-ENEC-Certificate QT _i
	Certificates 504207_VDE-EMC-Certificate QT _i
	Declarations of conformity QUICKTRONIC CE 3364256 190821
	CAD data 3-dim 321772_QT _i GII
	CAD data 3-dim 321773_QT _i GII
	CAD data PDF 321774_QT _i GII

Product datasheet

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.

Logistical Data

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4008321383358	QTi 1X28/54/35/49 GII	Shipping carton box 20	392 mm x 98 mm x 165 mm	6.34 dm ³	4919.99 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.

Disclaimer

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

QTi 1X28/54/35/49 GII

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Product name	Lamp group	Nominal current	Nominal wattage + Power loss	Power factor λ [PIM]	Luminous flux at 35 °C	Number of lighting outlets
QTi 1X28/54/35/49 GII	DULUX L 28 W HE	0.14 A	31.00 W	0.95	2700 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	0.93 c	1275 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	32.00 W	0.95	2600 lm	1
	HE 32 W ES	0.16 A	36.00 W	0.96	3150 lm	1
	HE 35 W	0.17 A	38.00 W	0.97	3300 lm	1
	HE 35 W XT	0.17 A	38.00 W	0.97	3300 lm	1
	HO 49 W	0.24 A	53.00 W	0.97	4300 lm	1
	HO 50 W ES	0.23 A	54.00 W	0.98	4450 lm	1
	HO 54 W	0.26 A	58.00 W	0.97	4450 lm	1
	L 58 W	0.24 A	55.00 W	0.99	5000 lm	1