QTi 4X14/24 DIM

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



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_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

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

Areas of application

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

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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
Maximum output power	4 x 24 W
Efficiency in full-load	94 % [1]
Operating frequency	40…100 kHz
Max. ECG no. on circuit breaker 10 A (B)	8 [2]
Max. ECG no. on circuit breaker 16 A (B)	13 [2]
Inrush current	45 A

[1] at 230 V, 50 Hz

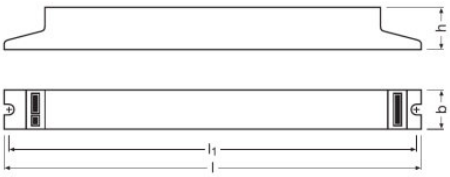
[2] Type B

Light technical data

Starting time	0.6 s [1]

[1] Optimized preheat start

Dimensions & weight



Length	360.0 mm
Width	40.0 mm
Height	21.0 mm
Mounting hole spacing, length	350.0 mm
Product weight	397.00 g
Cable cross-section, output side	0.5…1.5 / 0.5…1.0 mm² [1]
Cable cross-section, input side	0.5…1.5 / 0.5…1.0 mm² [1]

[1] Solid leads / Flexible

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Temperatures & operating conditions

Ambient temperature range	+10…+50 °C
Permitted rel. humidity during operation	5…85 % [1)]

[1)] Maximum 56 days/year at 85 %

Lifespan

ECG lifetime	100000 h [1)]

[1)] At T_{case} = 65°C at T_c point / 10% failure rate

Additional product data

Suitable for lamp power (4 lamps)	14…24 W

Capabilities

Dimming interface	1…10 V
Dimming range	1…100 % [1)]
Dimmable	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
Max. cable length to lamp/LED module	1.0 m
Intended for no-load operation	No

[1)] Luminous flux

Certificates & standards

Approval marks – approval	VDE / VDE-EMC / EL / EAC / RCM / CCC
Standards	Acc. to EN 55015; EN 55022/Acc. to EN 61547/Acc. to EN 61000-3-2
EEI – Energy Label	A1 BAT
Protection class	I
Type of protection	IP20

Logistical data

Commodity code	85041080900

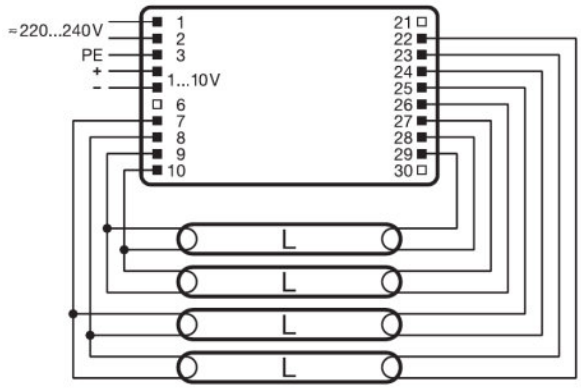
Environmental information

Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACh)	
Date of Declaration	21-07-2023
Primary Article Identifier	4008321069993

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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	12980ffa-8acc-4e8e-b001-5b978bf0ec35

Wiring Diagram



319623_QTi 4x... DIM

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
	Addon Technical Information 502689_Frequent switching Quicktronic
	Addon Technical Information 502785_ECG lifetime - QUICKTRONIC (DALI) DIM
	Product Datasheet 321505_ATI QTi 4x1424220-240 DIM (G+GB)

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	Certificates 334953_EMC-Marks approval
	Certificates 335097_INOTEC
	Certificates QTI DALI VDE 40021252 210920
	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 592319_EAC certificate for Quicktronics QT
	Certificates 504208_VDE-EMC-CERTIFICATE QTI DALI DIM
	Declarations of conformity QUICKTRONIC DIM CE 3364258 060923
	Operating instructions 592412_EAC QTi T5 DIM
	CAD data 3-dim 321639_QTi 4x1424220-240 DIM
	CAD data 3-dim 321640_QTi 4x1424220-240 DIM
	CAD data 3-dim 321641_QTi 4x1424220-240 DIM
	CAD data PDF 321637_QTi 4x1424220-240 DIM

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

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Logistical Data

4008321069993	QTi 4X14/24 DIM	Shipping carton box 20	380 mm x 206 mm x 96 mm	7.51 dm^3	8213.00 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.

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	Power factor λ [PIM]	Luminous flux at 35 °C	Number of lighting outlets
QTi 4X14/24 DIM	DULUX F 24 W	0.43 A	97.60 W	0.99	1800 lm	4
	DULUX L 24 W	0.43 A	98.00 W	0.99	1800 lm	4
	FC 22 W	0.43 A	98.00 W	0.99	1750 lm	4
	HE 14 W	0.27 A	60.40 W	0.97	1200 lm	4
	HO 24 W	0.43 A	98.00 W	0.99	1750 lm	4

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