

PRODUCT FAMILY DATASHEET QUICKTRONIC INTELLIGENT

ECG for FL 16 mm



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 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

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_c)
- 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

TECHNICAL DATA

Electrical data

Product description	Input voltage AC	Nominal voltage	Mains frequency	Input voltage DC
QTi 1X14/24/21/39 GII	198...264 V	220...240 V	50...60 Hz	176...276 V
QTi 1X28/54/35/49 GII	198...264 V	220...240 V	50...60 Hz	176...276 V
QTi 1X35/49/80 GII	198...264 V	220...240 V	50...60 Hz	176...276 V
QTi 2X14/24/21/39 GII	198...264 V	220...240 V	50...60 Hz	176...276 V
QTi 2X28/54/35/49 GII	198...264 V	220...240 V	50...60 Hz	176...276 V
QTi 2X35/49/80 GII	198...264 V	220...240 V	50...60 Hz	176...276 V

Light technical data

Product description	Starting time
QTi 1X14/24/21/39 GII	1.0 s
QTi 1X28/54/35/49 GII	1.0 s
QTi 1X35/49/80 GII	1.0 s
QTi 2X14/24/21/39 GII	1.0 s
QTi 2X28/54/35/49 GII	1.0 s
QTi 2X35/49/80 GII	1.0 s

Dimensions & weight

Product description	Length	Width	Height	Mounting hole spacing, length	Product weight
QTi 1X14/24/21/39 GII	360.0 mm	30.0 mm	21.0 mm	350.0 mm	210.25 g
QTi 1X28/54/35/49 GII	360.0 mm	30.0 mm	21.0 mm	350.0 mm	235.00 g
QTi 1X35/49/80 GII	360.0 mm	30.0 mm	21.0 mm	350.0 mm	240.00 g
QTi 2X14/24/21/39 GII	360.0 mm	30.0 mm	21.0 mm	350.0 mm	241.10 g
QTi 2X28/54/35/49 GII	360.0 mm	30.0 mm	21.0 mm	350.0 mm	270.00 g
QTi 2X35/49/80 GII	424.0 mm	30.0 mm	21.0 mm	415.0 mm	380.00 g

Product line drawing



QTi 1X14/24/21/39 GII, QTi 1X28/54/35/49 GII, QTi 1X35/49/80 GII, QTi 2X14/24/21/39 GII, QTi 2X28/54/35/49 GII, QTi 2X35/49/80 GII

Temperatures & operating conditions

Product description	Ambient temperature range
QTi 1X14/24/21/39 GII	-20...+50 °C
QTi 1X28/54/35/49 GII	-20...+50 °C
QTi 1X35/49/80 GII	-20...+50 °C
QTi 2X14/24/21/39 GII	-20...+50 °C
QTi 2X28/54/35/49 GII	-20...+50 °C
QTi 2X35/49/80 GII	-20...+50 °C

Lifespan

Product description	ECG lifetime
QTi 1X14/24/21/39 GII	100000 h ¹⁾
QTi 1X28/54/35/49 GII	100000 h ¹⁾
QTi 1X35/49/80 GII	100000 h ¹⁾
QTi 2X14/24/21/39 GII	100000 h ¹⁾
QTi 2X28/54/35/49 GII	100000 h ¹⁾
QTi 2X35/49/80 GII	100000 h ¹⁾

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

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
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
Product name	Lamp group				
QTi 1X35/49/80 GII	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	100000
	HO 80 W	ECG ambient temperature [ta]	40	50	60
		Temperature at tc-point [°C]	50	55	70
		Lifetime [h]	100000	100000	60000
Product name	Lamp group				
QTi 2X14/24/21/39 GII	HE 14 W	ECG ambient temperature [ta]	40	50	60
		Temperature at tc-point [°C]	50	60	70
		Lifetime [h]	100000	100000	80000

	HE 21 W	ECG ambient temperature [ta]	40	50	60	
		Temperature at tc-point [°C]	50	60	70	
		Lifetime [h]	100000	100000	70000	
	HO 24 W	ECG ambient temperature [ta]	40	50	60	
		Temperature at tc-point [°C]	60	65	75	
		Lifetime [h]	100000	90000	50000	
	HO 39 W	ECG ambient temperature [ta]	40	50	60	
		Temperature at tc-point [°C]	60	65	75	
		Lifetime [h]	100000	90000	50000	
Product name	Lamp group					
QTi 2X28/54/35/49 GII	HE 28 W	ECG ambient temperature [ta]	40	50	60	
		Temperature at tc-point [°C]	55	60	70	
		Lifetime [h]	100000	100000	80000	
	HE 35 W	ECG ambient temperature [ta]	40	50	60	
		Temperature at tc-point [°C]	55	65	70	
		Lifetime [h]	100000	100000	70000	
	HO 49 W	ECG ambient temperature [ta]	40	50	60	
		Temperature at tc-point [°C]	55	65	70	
		Lifetime [h]	100000	100000	70000	
	HO 54 W	ECG ambient temperature [ta]	40	50	59	
		Temperature at tc-point [°C]	60	70	75	
		Lifetime [h]	100000	100000	50000	
	Product name	Lamp group				
	QTi 2X35/49/80 GII	DULUX L 80 W	ECG ambient temperature [ta]	40	50	60
			Temperature at tc-point [°C]	60	70	75
Lifetime [h]			100000	80000	50000	
HE 32 W ES		ECG ambient temperature [ta]	40	50	60	
		Temperature at tc-point [°C]	55	60	70	
		Lifetime [h]	100000	100000	80000	
HE 35 W		ECG ambient temperature [ta]	40	50	60	
		Temperature at tc-point [°C]	55	60	70	
		Lifetime [h]	100000	100000	70000	
HO 45 W ES		ECG ambient temperature [ta]	40	50	60	
		Temperature at tc-point [°C]	55	65	70	
		Lifetime [h]	100000	100000	70000	
HO 49 W		ECG ambient temperature [ta]	40	50	60	
		Temperature at tc-point [°C]	55	65	70	
		Lifetime [h]	100000	100000	60000	
HO 49 W CONSTANT		ECG ambient temperature [ta]	40	50	60	
		Temperature at tc-point [°C]	60	70	75	

		Lifetime [h]	100000	80000	40000
	HO 73 W ES	ECG ambient temperature [ta]	40	50	60
		Temperature at tc-point [°C]	60	70	75
		Lifetime [h]	100000	80000	40000

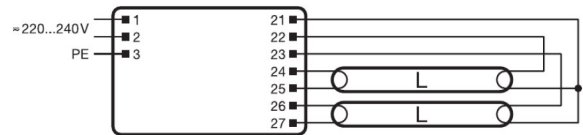
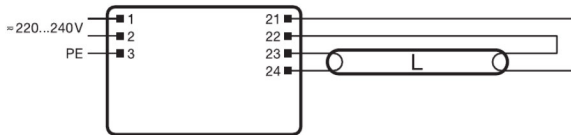
Capabilities

Product description	Suitable for emergency lighting	End of lamp life safety shutdown	Suitable for fixtures with prot. class
QTi 1X14/24/21/39 GII	Yes	EOL T.2	I / II
QTi 1X28/54/35/49 GII	Yes	EOL T.2	I / II
QTi 1X35/49/80 GII	Yes	EOL T.2	I / II
QTi 2X14/24/21/39 GII	Yes	EOL T.2	I / II
QTi 2X28/54/35/49 GII	Yes	EOL T.2	I / II
QTi 2X35/49/80 GII	Yes	EOL T.2	I / II

Certificates & standards

Product description	Approval marks – approval	EEL – Energy Label	Protection class
QTi 1X14/24/21/39 GII	VDE / VDE-EMC / ENEC 10 / CE	A2 BAT	II
QTi 1X28/54/35/49 GII	VDE / VDE-EMC / ENEC 10 / CE	A2 BAT	II
QTi 1X35/49/80 GII	VDE / VDE-EMC / ENEC 10 / CE	A2 BAT	II
QTi 2X14/24/21/39 GII	VDE / VDE-EMC / ENEC 10 / CE	A2 BAT	II
QTi 2X28/54/35/49 GII	VDE / VDE-EMC / CE / ENEC 10	A2 BAT	II
QTi 2X35/49/80 GII	VDE / VDE-EMC / ENEC 10 / CE	A2 BAT	I/II

Wiring Diagram



QTi 1X14/24/21/39 GII, QTi 1X28/54/35/49 GII, QTi 1X35/49/80 GII

QTi 2X14/24/21/39 GII, QTi 2X28/54/35/49 GII, QTi 2X35/49/80 GII

APPLICATION ADVICE

For more detailed application information and graphics please see product datasheet.

SALES AND TECHNICAL SUPPORT

Sales and Technical Support www.ledvance.com

COUNTRY SPECIFIC INFORMATION

Product description	Product code	METEL code	SEG number	STK number	UK Org
QTi 1X14/24/21/39 GII	4008321383334	OSRQTI1X1439N	7980332	4030502	-
QTi 1X28/54/35/49 GII	4008321383358	OSRQTI1X2854N	7980333	4030027	-
QTi 1X35/49/80 GII	4008321383372	OSRQTI1X3580N	7980334	4030506	-
QTi 2X14/24/21/39 GII	4008321383396	OSRQTI2X1439N	7980335	4030512	-
QTi 2X28/54/35/49 GII	4008321383419	OSRQTI2X2854N	7980336	4030516	-
QTi 2X35/49/80 GII	4008321658951	-	7980355	4031103	-

DOWNLOAD DATA

File	
	Addon Technical Information 502689_Frequent switching Quicktronic
	Product Datasheet 502688_ECG lifetime - QUICKTRONIC non DIM
	Product Family Datasheet 336480_Family data sheet QTi GII
	Brochures 335514_Applications and luminaires solutions
	Certificates 554891_EAC PT family
	Certificates 334970_EMC-Marks approval
	Certificates 334971_ENEC-Marks approval
	Certificates 335097_INOTEC
	Certificates 335169_Manufacturer's declaration – LampECG combinations: Frequent switching
	Certificates 504180_VDE-ENEC-Certificate QTi
	Certificates 504207_VDE-EMC-Certificate QTi
	Declarations of conformity 339525_Declaration of Conformity (GB)
	Operating instructions 592500_EAC QTi T5
	CAD data 3-dim 321772_QTi GII
	CAD data 3-dim 321773_QTi GII
	CAD data PDF 321774_QTi GII
	Product Datasheet 321453_ATI QTi 1X28543549 GII (G+GB)
	Product Datasheet 321456_ATI QTi 2X14242139 GII (G+GB)
	CAD data 3-dim 320844_HALOSTAR STARLITE
	Product Datasheet 321459_ATI QTi 2X28543549 GII (G+GB)

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4008321383341	Shipping carton box 20	392 mm x 98 mm x 165 mm	4424.79 g	6.34 dm ³

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4008321383365	Shipping carton box 20	392 mm x 98 mm x 165 mm	4919.99 g	6.34 dm ³
4008321383389	Shipping carton box 20	392 mm x 98 mm x 165 mm	5019.99 g	6.34 dm ³
4008321383402	Shipping carton box 20	392 mm x 98 mm x 165 mm	5042.39 g	6.34 dm ³
4008321383426	Shipping carton box 20	392 mm x 98 mm x 165 mm	5620.00 g	6.34 dm ³
4008321658968	Shipping carton box 20	435 mm x 96 mm x 170 mm	7842.00 g	7.10 dm ³

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.