

QUICKTRONIC PROFESSIONAL OPTIMAL

ECG for FL and CFL, not dimmable



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: up to 100,000 h (temperature at $T_c = 65^\circ\text{C}$, max. 10 % failure rate)
- 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
QTP-OPTIMAL 1X18...40	198...264 V	220...240 V	50...60 Hz	176...276 V
QTP-OPTIMAL 1X54...58	198...264 V	220...240 V	50...60 Hz	176...276 V
QTP-OPTIMAL 2X18...40	198...264 V	220...240 V	50...60 Hz	176...276 V
QTP-OPTIMAL 2X54...58	198...264 V	220...240 V	50...60 Hz	176...276 V

Light technical data

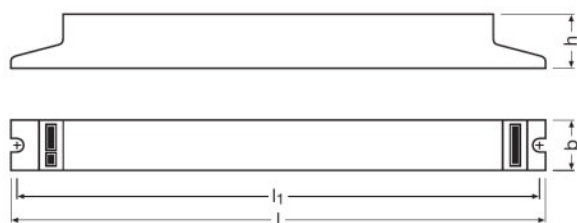
Product description	Starting time
QTP-OPTIMAL 1X18...40	15 s ¹⁾
QTP-OPTIMAL 1X54...58	15 s ¹⁾
QTP-OPTIMAL 2X18...40	15 s ¹⁾
QTP-OPTIMAL 2X54...58	15 s ¹⁾

¹⁾ If there is a temporary interruption in the power supply (< 0.5 s), the lamp will start within 0.3 s

Dimensions & weight

Product description	Length	Width	Height	Mounting hole spacing, length	Product weight
QTP-OPTIMAL 1X18...40	2800 mm	300 mm	210 mm	270.0 mm	18000 g
QTP-OPTIMAL 1X54...58	2800 mm	300 mm	210 mm	270.0 mm	18000 g
QTP-OPTIMAL 2X18...40	3600 mm	300 mm	210 mm	350.0 mm	24370 g
QTP-OPTIMAL 2X54...58	3600 mm	300 mm	210 mm	350.0 mm	23990 g

Product line drawing



QTP-OPTIMAL 1X18...40, QTP-OPTIMAL 1X54...58, QTP-OPTIMAL 2X18...40, QTP-OPTIMAL 2X54...58

Temperatures & operating conditions

Product description	Ambient temperature range
QTP-OPTIMAL 1X18...40	-20...+50 °C
QTP-OPTIMAL 1X54...58	-20...+50 °C
QTP-OPTIMAL 2X18...40	-20...+50 °C
QTP-OPTIMAL 2X54...58	-20...+50 °C

Lifespan

Product description	ECG lifetime
QTP-OPTIMAL 1X18...40	100000 h ¹⁾
QTP-OPTIMAL 1X54...58	100000 h ¹⁾
QTP-OPTIMAL 2X18...40	100000 h ¹⁾
QTP-OPTIMAL 2X54...58	100000 h ¹⁾

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

Product name	Lamp group				
QTP-OPTIMAL 1X18...40	HO 24 W	ECG ambient temperature [ta]	40	50	60
		Temperature at tc-point [°C]	50	60	70

Product family datasheet

		Lifetime [h]	100000	100000	80000
	HO 39 W	ECG ambient temperature [ta]	40	50	60
		Temperature at tc-point [°C]	55	60	70
		Lifetime [h]	100000	100000	80000
	L 18 W	ECG ambient temperature [ta]	40	50	60
		Temperature at tc-point [°C]	50	60	70
		Lifetime [h]	100000	100000	90000
	L 30 W	ECG ambient temperature [ta]	40	50	60
		Temperature at tc-point [°C]	50	60	70
		Lifetime [h]	100000	100000	80000
	L 36 W	ECG ambient temperature [ta]	40	50	60
		Temperature at tc-point [°C]	55	60	70
		Lifetime [h]	100000	100000	80000
Product name	Lamp group				
QTP-OPTIMAL 1X54...58	DULUX L 55 W	ECG ambient temperature [ta]	40	50	60
		Temperature at tc-point [°C]	55	60	70
		Lifetime [h]	100000	100000	70000
	L 58 W	ECG ambient temperature [ta]	40	50	60
		Temperature at tc-point [°C]	55	60	70
		Lifetime [h]	100000	100000	80000
Product name	Lamp group				
QTP-OPTIMAL 2X18...40	DULUX F 24 W	ECG ambient temperature [ta]	40	50	60
		Temperature at tc-point [°C]	50	60	65
		Lifetime [h]	100000	100000	90000
	DULUX F 36 W	ECG ambient temperature [ta]	40	50	60
		Temperature at tc-point [°C]	55	60	70
		Lifetime [h]	100000	100000	70000
	DULUX L 18 W	ECG ambient temperature [ta]	40	50	60
		Temperature at tc-point [°C]	50	60	65
		Lifetime [h]	100000	100000	90000
	DULUX L 24 W	ECG ambient temperature [ta]	40	50	60
		Temperature at tc-point [°C]	50	60	70
		Lifetime [h]	100000	100000	80000
	DULUX L 36 W	ECG ambient temperature [ta]	40	50	60
		Temperature at tc-point [°C]	55	60	70
		Lifetime [h]	100000	100000	70000
	DULUX L 40 W	ECG ambient temperature [ta]	40	60	60
		Temperature at tc-point [°C]	60	65	75
		Lifetime [h]	100000	90000	50000

Product family datasheet

	HO 24 W	ECG ambient temperature [ta]	40	50	60
		Temperature at tc-point [°C]	50	60	70
		Lifetime [h]	100000	100000	80000
	HO 39 W	ECG ambient temperature [ta]	40	60	60
		Temperature at tc-point [°C]	60	65	75
		Lifetime [h]	100000	90000	50000
	L 18 W	ECG ambient temperature [ta]	40	50	60
		Temperature at tc-point [°C]	50	60	65
		Lifetime [h]	100000	100000	80000
	L 30 W	ECG ambient temperature [ta]	40	50	60
		Temperature at tc-point [°C]	55	60	70
		Lifetime [h]	100000	100000	70000
	L 36 W	ECG ambient temperature [ta]	40	50	60
		Temperature at tc-point [°C]	55	65	70
		Lifetime [h]	100000	100000	70000
Product name	Lamp group				
QTP-OPTIMAL 2X54...58	DULUX L 55 W	ECG ambient temperature [ta]	40	50	60
		Temperature at tc-point [°C]	55	65	75
		Lifetime [h]	100000	100000	60000
	HO 54 W	ECG ambient temperature [ta]	40	50	60
		Temperature at tc-point [°C]	60	65	75
		Lifetime [h]	100000	90000	50000
	L 58 W	ECG ambient temperature [ta]	40	50	60
		Temperature at tc-point [°C]	55	65	75
		Lifetime [h]	100000	100000	60000

Additional product data

Product description	Predecessor EAN
QTP-OPTIMAL 1X18...40	4008321117861, 4008321117908
QTP-OPTIMAL 1X54...58	4008321390158
QTP-OPTIMAL 2X18...40	4008321117885
QTP-OPTIMAL 2X54...58	

Capabilities

Product description	Suitable for fixtures with prot. class	End of lamp life safety shutdown	Suitable for emergency lighting
QTP-OPTIMAL 1X18...40	I / II	EOL T.2	
QTP-OPTIMAL 1X54...58	I / II	EOL T.2	Yes
QTP-OPTIMAL 2X18...40	I / II	EOL T.2	
QTP-OPTIMAL 2X54...58	I / II	EOL T.2	Yes

Certificates & standards

Product description	Approval marks – approval	EEI – Energy Label	Protection class
QTP-OPTIMAL 1X18...40	EL / VDE / ENEC 10 / VDE-EMC	A2	I
QTP-OPTIMAL 1X54...58	EL / VDE / ENEC 10 / VDE-EMC	A2 BAT	I
QTP-OPTIMAL 2X18...40	EL / VDE / ENEC 10 / VDE-EMC	A2 BAT	I
QTP-OPTIMAL 2X54...58	EL / VDE / ENEC 10 / VDE-EMC	A2 BAT	I

Logistical data

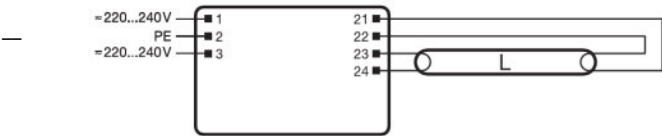
Product description	Commodity code
QTP-OPTIMAL 1X18...40	85041080900
QTP-OPTIMAL 1X54...58	85041080900
QTP-OPTIMAL 2X18...40	85041080900
QTP-OPTIMAL 2X54...58	85041080900

Environmental information
Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACH)

Product description	Date of Declaration	Primary Article Identifier	Candidate List Substance 1
QTP-OPTIMAL 1X18...40	19-05-2023	4008321873743	Lead
QTP-OPTIMAL 1X54...58	19-05-2023	4008321873729	Lead
QTP-OPTIMAL 2X18...40	19-05-2023	4008321873767	Lead
QTP-OPTIMAL 2X54...58	19-05-2023	4008321880253	Lead
Product description	CAS No. of substance 1	Safe Use Instruction	Declaration No. in SCIP database
QTP-OPTIMAL 1X18...40	7439-92-1	The identification of the Candidate List substance is sufficient to allow safe use of the article.	387e7a95-6a27-4cd3-bc67-50c20e064df8

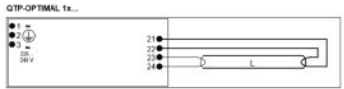
Product description	CAS No. of substance 1	Safe Use Instruction	Declaration No. in SCIP database
QTP-OPTIMAL 1X54...58	7439-92-1	The identification of the Candidate List substance is sufficient to allow safe use of the article.	ed896186-15f2-4625-841d-e245efea4991
QTP-OPTIMAL 2X18...40	7439-92-1	The identification of the Candidate List substance is sufficient to allow safe use of the article.	dfa68422-7944-47ea-b5d6-9a7a206b8d3c
QTP-OPTIMAL 2X54...58	7439-92-1	The identification of the Candidate List substance is sufficient to allow safe use of the article.	53cefce3-b0c5-425e-9061-e9aa20b864e0

Wiring Diagram

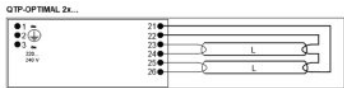


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	QTP-OPTIMAL 1X18-40	QTP-OPTIMAL 1X54-58	QTP-OPTIMAL 2X18-40	QTP-OPTIMAL 2X54-58
LED	12 V	12 V	12 V	12 V
LED	12 V	12 V	12 V	12 V
LED	12 V	12 V	12 V	12 V
LED	12 V	12 V	12 V	12 V
LED	12 V	12 V	12 V	12 V
LED	12 V	12 V	12 V	12 V
LED	12 V	12 V	12 V	12 V
LED	12 V	12 V	12 V	12 V
LED	12 V	12 V	12 V	12 V
LED	12 V	12 V	12 V	12 V



Max. permitted cable length between ECG and lamp: 2.0 m (P/N 21, 22), 1.0 m (P/N 23, 24)



Max. permitted cable length between ECG and lamp: 2.0 m (P/N 21, 22, 23, 24), 1.0 m (P/N 25, 26)

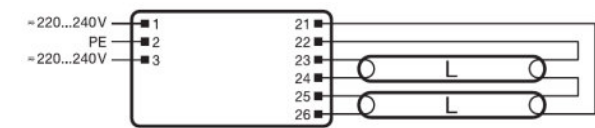
① Max. Leuchtweite zwischen ECG und Lampe. Leuchtweite max. - Hauptlampe
② Maximaler zulässiger Abstand zwischen ECG und Lampe
③ Abstand von ECG zu Lampe. Abstand max. - Hauptlampe

OSRAM

QTP-OPTIMAL 1X18...40, QTP-OPTIMAL 1X54...58

QTP-OPTIMAL 1X18...40, QTP-OPTIMAL 1X54...58, QTP-OPTIMAL 2X18...40, QTP-OPTIMAL 2X54...58

Product family datasheet



QTP-OPTIMAL 2X18...40, QTP-OPTIMAL 2X54...58

Application advice

For more detailed application information and graphics please see 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.

Sales and Technical Support

Sales and Technical Support www.osram.com

Country specific information

Product description	Product code	METEL-Code	SEG-No.	STK number	UK Org
QTP-OPTIMAL 1X18...40	4008321873743	-	-	4030274	-
QTP-OPTIMAL 1X18...40	4008321873743	-	-	4030274	-
QTP-OPTIMAL 1X54...58	4008321873729	-	-	4030273	-
QTP-OPTIMAL 1X54...58	4008321873729	-	-	4030273	-

Product family datasheet

QTP-OPTIMAL 2X18...40	4008321873767	-	-	4030272	-
QTP-OPTIMAL 2X18...40	4008321873767	-	-	4030272	-
QTP-OPTIMAL 2X54...58	4008321880253	-	-	4030271	-
QTP-OPTIMAL 2X54...58	4008321880253	-	-	4030271	-

Download Data

File	
	User instruction QUICKTRONIC QTP OPTIMAL
	Addon Technical Information 502689_Frequent switching Quicktronic
	Product Datasheet 502688_ECG lifetime - QUICKTRONIC non DIM
	Certificates 592319_EAC certificate for Quicktronics QT
	Certificates 349650_QTP-OPTIMAL VDE Certificate
	Certificates 346505_ENEC QTP-Optimal
	Certificates 346506 EMC QTP-Optimal
	Certificates 346512_CE QTP-Optimal
	Declarations of conformity QUICKTRONIC CE 3364256 060923
	CAD data QTP OPTIMAL 1x18-40 IGS 250320
	CAD data QTP OPTIMAL 1x18-40 STEP 250320
	CAD Data 2-dim QTP OPTIMAL 1x18-40 CAD2PDF 250320
	CAD data 3-dim QTP OPTIMAL 1x18-40 CAD3PDF 250320

Product family 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
4008321873743	QTP-OPTIMAL 1X18...40	Shipping carton box 20	305 mm x 161 mm x 104 mm	5.11 dm ³	3777.00 g
4008321873729	QTP-OPTIMAL 1X54...58	Shipping carton box 20	305 mm x 161 mm x 104 mm	5.11 dm ³	3777.00 g
4008321873767	QTP-OPTIMAL 2X18...40	Shipping carton box 20	385 mm x 160 mm x 100 mm	6.16 dm ³	5045.00 g
4008321880253	QTP-OPTIMAL 2X54...58	Shipping carton box 20	385 mm x 160 mm x 100 mm	6.16 dm ³	5069.00 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.