

## 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  $T_c = 65$  °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

## Product family datasheet

### 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	1.5 s <sup>1)</sup>
QTP-OPTIMAL 1X54...58	1.5 s <sup>1)</sup>
QTP-OPTIMAL 2X18...40	1.5 s <sup>1)</sup>
QTP-OPTIMAL 2X54...58	1.5 s <sup>1)</sup>

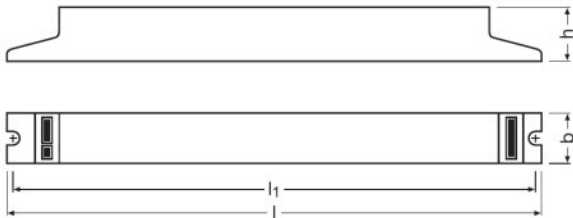
<sup>1)</sup> If there is a temporary interruption in the power supply (< 0.5 s), the lamp will start within 0.3 s

#### Dimensions & weight

Product description	Length	Width	Height	Mounting hole spacing, length	Product weight
QTP-OPTIMAL 1X18...40	280.0 mm	30.0 mm	21.0 mm	270.0 mm	180.00 g
QTP-OPTIMAL 1X54...58	280.0 mm	30.0 mm	21.0 mm	270.0 mm	180.00 g
QTP-OPTIMAL 2X18...40	360.0 mm	30.0 mm	21.0 mm	350.0 mm	243.70 g
QTP-OPTIMAL 2X54...58	360.0 mm	30.0 mm	21.0 mm	350.0 mm	239.90 g

# Product family datasheet

## 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 <sup>1)</sup>
QTP-OPTIMAL 1X54...58	100000 h <sup>1)</sup>
QTP-OPTIMAL 2X18...40	100000 h <sup>1)</sup>
QTP-OPTIMAL 2X54...58	100000 h <sup>1)</sup>

<sup>1)</sup> At  $T_{case} = 65^{\circ}C$  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

	HO 39 W	Lifetime [h]	100000	100000	80000
		ECG ambient temperature [ta]	40	50	60
		Temperature at tc-point [°C]	55	60	70
	L 18 W	Lifetime [h]	100000	100000	80000
		ECG ambient temperature [ta]	40	50	60
		Temperature at tc-point [°C]	50	60	70
	L 30 W	Lifetime [h]	100000	100000	90000
		ECG ambient temperature [ta]	40	50	60
		Temperature at tc-point [°C]	50	60	70
	L 36 W	Lifetime [h]	100000	100000	80000
		ECG ambient temperature [ta]	40	50	60
		Temperature at tc-point [°C]	55	60	70
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	

## Product family datasheet

### Capabilities

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

### 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	850410809000
QTP-OPTIMAL 1X54...58	850410809000
QTP-OPTIMAL 2X18...40	850410809000
QTP-OPTIMAL 2X54...58	850410809000

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

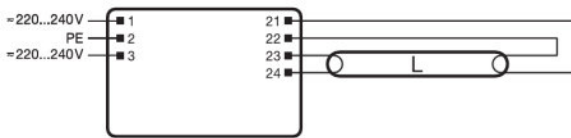
Product description	Date of Declaration	Primary Article Identifier	Candidate List Substance 1
QTP-OPTIMAL 1X18...40	14-04-2022	4008321873743	Lead
QTP-OPTIMAL 1X54...58	14-04-2022	4008321873729	Lead
QTP-OPTIMAL 2X18...40	14-04-2022	4008321873767	Lead
QTP-OPTIMAL 2X54...58	14-04-2022	4008321880253	Lead

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.	fd19fc15-93c4-402f-b95e-4d6b0c371dda

# Product family datasheet

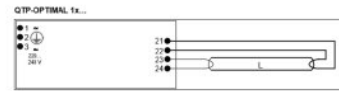
Product description	CAS No. of substance 1	Safe Use Instruction	Declaration No. in SCIP database
QTP-OPTIMAL 1X54...58	7439-92-1	The identification of the Candidate List substance is sufficient to allow safe use of the article.	63ff0c86-68b0-4fde-affb-44e7db82a6aa
QTP-OPTIMAL 2X18...40	7439-92-1	The identification of the Candidate List substance is sufficient to allow safe use of the article.	66bc942e-183d-4517-a112-8e4f7383573b
QTP-OPTIMAL 2X54...58	7439-92-1	The identification of the Candidate List substance is sufficient to allow safe use of the article.	468ab4ad-3f05-4ad7-82c1-f1d295e95904

## Wiring Diagram

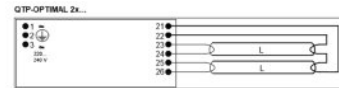


### QUICKTRONIC® PROFESSIONAL OPTIMAL

	QTP-OPTIMAL 1X18-40	QTP-OPTIMAL 1X18-58	QTP-OPTIMAL 1X54-40	QTP-OPTIMAL 1X54-58
100-200	120	120	120	120
200-300	120	120	120	120
300-400	120	120	120	120
400-500	120	120	120	120
500-600	120	120	120	120
600-700	120	120	120	120
700-800	120	120	120	120
800-900	120	120	120	120
900-1000	120	120	120	120
1000-1100	120	120	120	120
1100-1200	120	120	120	120
1200-1300	120	120	120	120
1300-1400	120	120	120	120
1400-1500	120	120	120	120
1500-1600	120	120	120	120
1600-1700	120	120	120	120
1700-1800	120	120	120	120
1800-1900	120	120	120	120
1900-2000	120	120	120	120
2000-2100	120	120	120	120
2100-2200	120	120	120	120
2200-2300	120	120	120	120
2300-2400	120	120	120	120
2400-2500	120	120	120	120
2500-2600	120	120	120	120
2600-2700	120	120	120	120
2700-2800	120	120	120	120
2800-2900	120	120	120	120
2900-3000	120	120	120	120
3000-3100	120	120	120	120
3100-3200	120	120	120	120
3200-3300	120	120	120	120
3300-3400	120	120	120	120
3400-3500	120	120	120	120
3500-3600	120	120	120	120
3600-3700	120	120	120	120
3700-3800	120	120	120	120
3800-3900	120	120	120	120
3900-4000	120	120	120	120
4000-4100	120	120	120	120
4100-4200	120	120	120	120
4200-4300	120	120	120	120
4300-4400	120	120	120	120
4400-4500	120	120	120	120
4500-4600	120	120	120	120
4600-4700	120	120	120	120
4700-4800	120	120	120	120
4800-4900	120	120	120	120
4900-5000	120	120	120	120
5000-5100	120	120	120	120
5100-5200	120	120	120	120
5200-5300	120	120	120	120
5300-5400	120	120	120	120
5400-5500	120	120	120	120
5500-5600	120	120	120	120
5600-5700	120	120	120	120
5700-5800	120	120	120	120
5800-5900	120	120	120	120
5900-6000	120	120	120	120
6000-6100	120	120	120	120
6100-6200	120	120	120	120
6200-6300	120	120	120	120
6300-6400	120	120	120	120
6400-6500	120	120	120	120
6500-6600	120	120	120	120
6600-6700	120	120	120	120
6700-6800	120	120	120	120
6800-6900	120	120	120	120
6900-7000	120	120	120	120
7000-7100	120	120	120	120
7100-7200	120	120	120	120
7200-7300	120	120	120	120
7300-7400	120	120	120	120
7400-7500	120	120	120	120
7500-7600	120	120	120	120
7600-7700	120	120	120	120
7700-7800	120	120	120	120
7800-7900	120	120	120	120
7900-8000	120	120	120	120
8000-8100	120	120	120	120
8100-8200	120	120	120	120
8200-8300	120	120	120	120
8300-8400	120	120	120	120
8400-8500	120	120	120	120
8500-8600	120	120	120	120
8600-8700	120	120	120	120
8700-8800	120	120	120	120
8800-8900	120	120	120	120
8900-9000	120	120	120	120
9000-9100	120	120	120	120
9100-9200	120	120	120	120
9200-9300	120	120	120	120
9300-9400	120	120	120	120
9400-9500	120	120	120	120
9500-9600	120	120	120	120
9600-9700	120	120	120	120
9700-9800	120	120	120	120
9800-9900	120	120	120	120
9900-10000	120	120	120	120



Max. permitted cable length between ECG and lamp: 2.8 m (PN 21, 22), 1.8 m (PN 23, 24)



Max. permitted cable length between ECG and lamp: 2.8 m (PN 21, 22, 23, 24), 1.8 m (PN 23, 24)

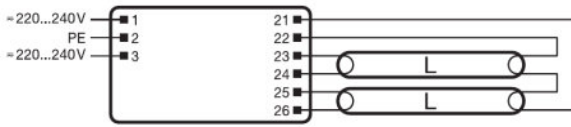
① Max. Leitungslänge zwischen ECG und Lampe, Leitungslänge max. Hauptstrom  
 ② Максимальная длина кабеля между ECG и лампой  
 ③ Кратчайшее время протекания электрического тока между ECG и лампой

**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](http://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_EMCC QTP-Optimal
	Certificates 346512_CE QTP-Optimal
	Declarations of conformity QUICKTRONIC CE 3364256 190821
	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

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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
4008321873743	QTP-OPTIMAL 1X18...40	Shipping carton box 20	312 mm x 166 mm x 98 mm	5.08 dm <sup>3</sup>	3506.00 g
4008321873729	QTP-OPTIMAL 1X54...58	Shipping carton box 20	303 mm x 159 mm x 101 mm	4.87 dm <sup>3</sup>	3766.00 g
4008321873767	QTP-OPTIMAL 2X18...40	Shipping carton box 20	385 mm x 160 mm x 100 mm	6.16 dm <sup>3</sup>	5145.00 g
4008321880253	QTP-OPTIMAL 2X54...58	Shipping carton box 20	385 mm x 160 mm x 100 mm	6.16 dm <sup>3</sup>	5016.00 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.

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### Disclaimer

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