

## QTP-OPTIMAL 2X54...58

QUICKTRONIC PROFESSIONAL OPTIMAL | ECG for FL and CFL, not dimmable



### 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 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
Operating frequency	40...50 kHz
Max. ECG no. on circuit breaker 10 A (B)	8 <sup>1)</sup>
Max. ECG no. on circuit breaker 16 A (B)	13 <sup>1)</sup>
Inrush current	57 A

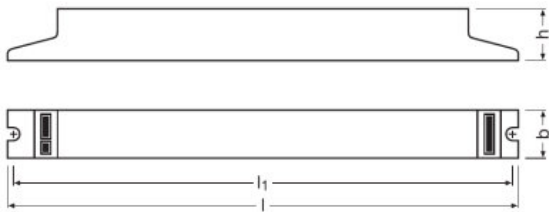
<sup>1)</sup> Type B

### Light technical data

Starting time	1.5 s <sup>1)</sup>
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<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



Length	360.0 mm
Width	30.0 mm
Height	21.0 mm
Mounting hole spacing, length	350.0 mm
Product weight	239.90 g

### Temperatures & operating conditions

Ambient temperature range	-20...+50 °C
Permitted rel. humidity during operation	5...85 % <sup>1)</sup>

<sup>1)</sup> Maximum 56 days/year at 85 %

## Product datasheet

### Lifespan

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

### Expected Lifetime

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

<b>Suitable for lamp power (2 lamps)</b>	54...58 W
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### Capabilities

<b>Suitable for fixtures with prot. class</b>	I / II
<b>End of lamp life safety shutdown</b>	EOL T.2
<b>Max. cable length to lamp/LED module</b>	2.0 m / 1.0 m
<b>Dimmable</b>	No

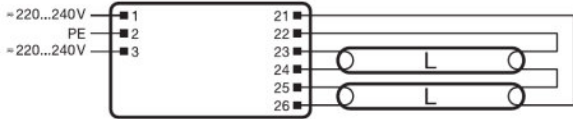
### Certificates & standards

<b>Approval marks – approval</b>	EL / VDE / ENEC 10 / VDE-EMC
<b>EEI – Energy Label</b>	A2 BAT
<b>Standards</b>	Acc. to IEC 61347-2-3 / App. J/Acc. to EN 55015:2006 + A1:2007 + A2:2009/Acc. to EN 61000-3-2/Acc. to EN 61547
<b>Protection class</b>	I
<b>Type of protection</b>	IP20

### Logistical data

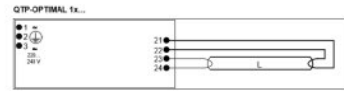
<b>Commodity code</b>	850410809000
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Wiring Diagram

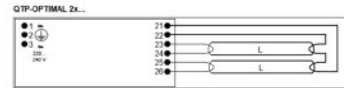


QUICKTRONIC® PROFESSIONAL OPTIMAL

	QTP-OPTIMAL 1x54	QTP-OPTIMAL 2x54	QTP-OPTIMAL 3x54	QTP-OPTIMAL 4x54
TYPE	17 A	18 A	18 A	18 A
SIZE	28 x	18 x	18 x	18 x
Max. current	<math>\le 24 A</math>	<math>\le 37 A</math>	<math>\le 37 A</math>	<math>\le 37 A</math>
W	200 µs	200 µs	200 µs	100 µs



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



Max. permitted cable length between ECG and lamp: 2.8 m (PN 21, 22, 25, 26), 1.8 m (PN 23, 24)

- ① Max. Leuchtweite zwischen ECG und Lampe. Leuchtweite max. Hauptstrom
- ② Максимальное допустимое расстояние между ЭЦП и лампой
- ③ Abstand von zum ersten zum letzten Elektrodenstrahl



319639\_QTP5 2x...

590771\_EAC QTP-OPTIMAL

Download Data

File
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 090421

## Product datasheet

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### Logistical Data

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
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

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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.

## QTP-OPTIMAL 2X54...58

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Product name	Lamp group	Nominal current	Nominal wattage + Power loss	Power factor $\lambda$ [PIM]	Luminous flux at 35 °C	Number of lighting outlets
QTP-OPTIMAL 2X54...58	DULUX L 55 W	0.48 A	110.00 W	0.99	4800 lm	2
	HO 50 W ES	0.46 A	107.00 W	0.99	4450 lm	2
	HO 54 W	0.52 A	120.00 W	0.99	4450 lm	2
	L 58 W	0.49 A	112.00 W	0.99	5000 lm	2
	L 58 W XXT	0.49 A	112.00 W	0.99	5000 lm	2
	NS 55W G13					