

## QT-ECO 1X18...24 S

QUICKTRONIC ECONOMIC | ECG for FL 7 mm and CFL



### Product family features

- Supply voltage: 220...240 V
- Line voltage: 198...264 V
- Line frequency: 50 Hz
- Energy Efficiency Index EEI: A2 / A3 (depending on lamp)
- Automatic shutdown of defective lamps and at end of life (EoL)

### Product family benefits

- Compact housing
- Automatic restart after lamp replacement
- Large input voltage range

### Areas of application

- Public buildings

Technical data

Electrical data

Nominal voltage	220...240 V
Mains frequency	50 Hz
Input voltage DC	176...254 V
Maximum output power	24 W
Efficiency in full-load	86 % <sup>1)</sup>
Operating frequency	40 kHz <sup>2)</sup>
Max. ECG no. on circuit breaker 10 A (B)	36
Max. ECG no. on circuit breaker 16 A (B)	59
Inrush current	13 A

<sup>1)</sup> at 230 V, 50 Hz

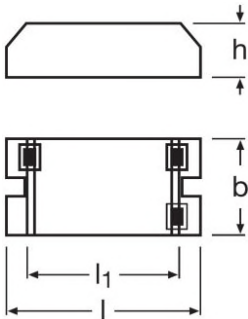
<sup>2)</sup> Approximately

Light technical data

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

<sup>1)</sup> Preheat start: After a switch off, the lamps should remain switched off for 2 minutes to ensure an optimum preheat start

Dimensions & weight



Length	80.0 mm
Width	40.0 mm
Height	22.0 mm
Mounting hole spacing, length	72.0...75.0 mm
Product weight	50.00 g

Temperatures & operating conditions

Ambient temperature range	-15...+50/-15...+50 °C
Permitted rel. humidity during operation	5...85 % <sup>1)</sup>

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

Lifespan

ECG lifetime	30000 h <sup>1)</sup>
--------------	-----------------------

<sup>1)</sup> T<sub>C</sub> = 70°C, with max. 10% failure rate

Additional product data

Suitable for lamp power (1 lamp)	18...24 W
----------------------------------	-----------

Capabilities

Suitable for fixtures with prot. class	I / II
End of lamp life safety shutdown	EOL T.2
Max. cable length to lamp/LED module	1.0 m / 0.5 m
Dimmable	No
Intended for no-load operation	No

Certificates & standards

Approval marks – approval	VDE / VDE-EMC
EEI – Energy Label	A2/A3 <sup>1)</sup>
Standards	Acc. to EN 61347-2-3/Acc. to EN 55015:2006 + A1:2007/Acc. to IEC 61000-3-2/Acc. to EN 61547
Protection class	I
Type of protection	IP20

<sup>1)</sup> For detailed information please see Lamp-ECG combinations

Logistical data

Commodity code	85041080900
----------------	-------------

Environmental information

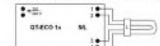
Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACH)	
Date of Declaration	19-05-2023
Primary Article Identifier	4050300638560
Candidate List Substance 1	Lead
CAS No. of substance 1	7439-92-1
Safe Use Instruction	The identification of the Candidate List substance is sufficient to allow safe use of the article.
Declaration No. in SCIP database	ed508d8c-da53-42e9-a753-21021bfc5c44

## Product datasheet

## Wiring Diagram



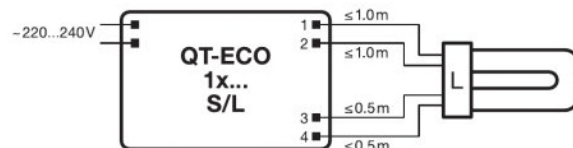
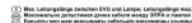
	QT REO 14-0-14, 3	QT REO 17-0-17, 3	QT REO 24-0-24, 3	QT REO 32-0-32, 3	QT REO 36-0-36, 3
	88 x	28 x	30 x	20 x	21 x
	112 x	88 x	102 x	50 x	55 x
	176 x	112 x	132 x	70 x	75 x
	240 x	144 x	162 x	90 x	95 x
	304 x	176 x	192 x	110 x	115 x
	368 x	208 x	222 x	130 x	135 x
	432 x	240 x	252 x	150 x	155 x
	496 x	272 x	282 x	170 x	175 x
	560 x	304 x	312 x	190 x	195 x
	624 x	336 x	342 x	210 x	215 x
	688 x	368 x	372 x	230 x	235 x
	752 x	400 x	402 x	250 x	255 x
	816 x	432 x	432 x	270 x	275 x
	880 x	464 x	462 x	290 x	295 x
	944 x	496 x	492 x	310 x	315 x
	1008 x	528 x	522 x	330 x	335 x
	1072 x	560 x	552 x	350 x	355 x
	1136 x	592 x	582 x	370 x	375 x
	1200 x	624 x	612 x	390 x	395 x
	1264 x	656 x	642 x	410 x	415 x
	1328 x	688 x	672 x	430 x	435 x
	1392 x	720 x	702 x	450 x	455 x
	1456 x	752 x	732 x	470 x	475 x
	1520 x	784 x	762 x	490 x	495 x
	1584 x	816 x	792 x	510 x	515 x
	1648 x	848 x	822 x	530 x	535 x
	1712 x	880 x	852 x	550 x	555 x
	1776 x	912 x	882 x	570 x	575 x
	1840 x	944 x	912 x	590 x	595 x
	1904 x	976 x	942 x	610 x	615 x
	1968 x	1008 x	972 x	630 x	635 x
	2032 x	1040 x	1002 x	650 x	655 x
	2096 x	1072 x	1032 x	670 x	675 x
	2160 x	1104 x	1062 x	690 x	695 x
	2224 x	1136 x	1092 x	710 x	715 x
	2288 x	1168 x	1122 x	730 x	735 x
	2352 x	1200 x	1152 x	750 x	755 x
	2416 x	1232 x	1182 x	770 x	775 x
	2480 x	1264 x	1212 x	790 x	795 x
	2544 x	1296 x	1242 x	810 x	815 x
	2608 x	1328 x	1272 x	830 x	835 x
	2672 x	1360 x	1302 x	850 x	855 x
	2736 x	1392 x	1332 x	870 x	875 x
	2800 x	1424 x	1362 x	890 x	895 x
	2864 x	1456 x	1392 x	910 x	915 x
	2928 x	1488 x	1422 x	930 x	935 x
	2992 x	1520 x	1452 x	950 x	955 x
	3056 x	1552 x	1482 x	970 x	975 x
	3120 x	1584 x	1512 x	990 x	995 x
	3184 x	1616 x	1542 x	1010 x	1015 x
	3248 x	1648 x	1572 x	1030 x	1035 x
	3312 x	1680 x	1602 x	1050 x	1055 x
	3376 x	1712 x	1632 x	1070 x	1075 x
	3440 x	1744 x	1662 x	1090 x	1095 x
	3504 x	1776 x	1692 x	1110 x	1115 x
	3568 x	1808 x	1722 x	1130 x	1135 x
	3632 x	1840 x	1752 x	1150 x	1155 x
	3696 x	1872 x	1782 x	1170 x	1175 x
	3760 x	1904 x	1812 x	1190 x	1195 x
	3824 x	1936 x	1842 x	1210 x	1215 x
	3888 x	1968 x	1872 x	1230 x	1235 x
	3952 x	2000 x	1902 x	1250 x	1255 x
	4016 x	2032 x	1932 x	1270 x	1275 x
	4080 x	2064 x	1962 x	1290 x	1295 x
	4144 x	2096 x	1992 x	1310 x	1315 x
	4208 x	2128 x	2022 x	1330 x	1335 x
	4272 x	2160 x	2052 x	1350 x	1355 x
	4336 x	2192 x	2082 x	1370 x	1375 x
	4400 x	2224 x	2112 x	1390 x	1395 x
	4464 x	2256 x	2142 x	1410 x	1415 x
	4528 x	2288 x	2172 x	1430 x	1435 x
	4592 x	2320 x	2202 x	1450 x	1455 x
	4656 x	2352 x	2232 x	1470 x	1475 x
	4720 x	2384 x	2262 x	1490 x	1495 x
	4784 x	2416 x	2292 x	1510 x	1515 x
	4848 x	2448 x	2322 x	1530 x	1535 x
	4912 x	2480 x	2352 x	1550 x	1555 x
	4976 x	2512 x	2382 x	1570 x	1575 x
	5040 x	2544 x	2412 x	1590 x	1595 x
	5104 x	2576 x	2442 x	1610 x	1615 x
	5168 x	2608 x	2472 x	1630 x	1635 x
	5232 x	2640 x	2502 x	1650 x	1655 x
	5296 x	2672 x	2532 x	1670 x	1675 x
	5360 x	2704 x	2562 x	1690 x	1695 x
	5424 x	2736 x	2592 x	1710 x	1715 x
	5488 x	2768 x	2622 x	1730 x	1735 x
	5552 x	2800 x	2652 x	1750 x	1755 x
	5616 x	2832 x	2682 x	1770 x	1775 x
	5680 x	2864 x	2712 x	1790 x	1795 x
	5744 x	2896 x	2742 x	1810 x	1815 x
	5808 x	2928 x	2772 x	1830 x	1835 x
	5872 x	2960 x	2802 x	1850 x	1855 x
	5936 x	2992 x	2832 x	1870 x	1875 x
	6000 x	3024 x	2862 x	1890 x	1895 x
	6064 x	3056 x	2892 x	1910 x	1915 x
	6128 x	3088 x	2922 x	1930 x	1935 x
	6192 x	3120 x	2952 x	1950 x	1955 x
	6256 x	3152 x	2982 x	1970 x	1975 x
	6320 x	3184 x	3012 x	1990 x	1995 x
	6384 x	3216 x	3042 x	2010 x	2015 x
	6448 x	3248 x	3072 x	2030 x	2035 x
	6512 x	3280 x	3102 x	2050 x	2055 x
	6576 x	3312 x	3132 x	2070 x	2075 x
	6640 x	3344 x	3162 x	2090 x	2095 x
	6704 x	3376 x	3192 x	2110 x	2115 x
	6768 x	3408 x	3222 x	2130 x	2135 x
	6832 x	3440 x	3252 x	2150 x	2155 x
	6896 x	3472 x	3282 x	2170 x	2175 x
	6960 x	3504 x	3312 x	2190 x	2195 x
	7024 x	3536 x	3342 x	2210 x	2215 x
	7088 x	3568 x	3372 x	2230 x	2235 x
	7152 x	3600 x	3402 x	2250 x	2255 x
	7216 x	3632 x	3432 x	2270 x	2275 x
	7280 x	3664 x	3462 x	2290 x	2295 x
	7344 x	3696 x	3492 x	2310 x	2315 x
	7408 x	3728 x	3522 x	2330 x	2335 x
	7472 x	3760 x	3552 x	2350 x	2355 x
	7536 x	3792 x	3582 x	2370 x	2375 x
	7600 x	3824 x	3612 x	2390 x	2395 x
	7664 x	3856 x	3642 x	2410 x	2415 x
	7728 x	3888 x	3672 x	2430 x	2435 x
	7792 x	3920 x	3702 x	2450 x	2455 x
	7856 x	3952 x	3732 x	2470 x	2475 x
	7920 x	3984 x	3762 x	2490 x	2495 x
	7984 x	4016 x	3792 x	2510 x	2515 x
	8048 x	4048 x	3822 x	2530 x	2535 x
	8112 x	4080 x	3852 x	2550 x	2555 x
	8176 x	4112 x	3882 x	2570 x	2575 x
	8240 x	4144 x	3912 x	2590 x	2595 x
	8304 x	4176 x	3942 x	2610 x	2615 x
	8368 x	4208 x	3972 x	2630 x	2635 x
	8432 x	4240 x	4002 x	2650 x	2655 x
	8496 x	4272 x	4032 x	2670 x	2675 x
	8560 x	4304 x	4062 x	2690 x	2695 x
	8624 x	4336 x	4092 x	2710 x	2715 x
	8688 x	4368 x	4122 x	2730 x	2735 x
	8752 x	4400 x	4152 x	2750 x	2755 x
	8816 x	4432 x	4182 x	2770 x	2775 x
	8880 x	4464 x	4212 x	2790 x	2795 x



Has primitive side length between 1 (1) and larg.  $\in (1/3) \in (1/2), \in (1/3) \in (1/2), \in (1/3) \in (1/2)$



Max. permissible cable length between ECU and lamp = 1.0 m (PIN 5, 2, 3, 8) = 0.5 m (PIN 6, 9)



## OSRAM







592501 EAC QT-ECO

723145 Wiring Diagram QT-ECO 1x






### 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
 User instruction QUICKTRONIC QT ECO
 Product Datasheet 321436_ATI QT-ECO 1X18-24220-240 S (G+GB)
 Certificates 334955_VDE-Marks approval
 Certificates 334983_VDE-Marks approval
 Certificates 335154_Manufacturer's declaration &#150; EN 55015:2006+A1:2007 (300 MHz)
 Certificates 683440_VDE-Marks approvals

Product datasheet

	Declarations of conformity QUICKTRONIC CE 3364256 060923
	CAD data 3-dim 313443_80x40x22 9900019
	CAD data 3-dim 313452_80x40x22 9900019
	CAD data 3-dim 313497_80x40x22 9900019
	CAD data PDF 313386_80x40x22 9900019

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
4050300638560	QT-ECO 1X18...24 S	Shipping carton box 50	246 mm x 209 mm x 160 mm	8.23 dm <sup>3</sup>	2941.00 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.

QT-ECO 1X18...24 S

QUICKTRONIC ECONOMIC | ECG for FL 7 mm and CFL

Product name	Lamp group	Nominal current	Nominal wattage + Power loss	Power factor λ [PIM]	Luminous flux at 35 °C	Number of lighting outlets
QT-ECO 1X18...24 S	DULUX F 18 W	0.13 A	18.00 W	0.60 c	1000 lm	1
	DULUX F 24 W	0.16 A	22.50 W	0.60 c	1500 lm	1
	DULUX L 18 W	0.13 A	18.00 W	0.92 c	1200 lm	1
	DULUX L 24 W	0.16 A	22.50 W	0.60 c	1600 lm	1
	FC 22 W	0.16 A	22.50 W	0.60 c	1650 lm	1
	HNS-L 18W 2G11					
	HNS-L 24W 2G11					
	HO 24 W	0.15 A	20.00 W	0.60 c	1600 lm	1
	L 15 W	0.13 A	17.00 W	0.60 c	950 lm	1
	L 18 W	0.14 A	19.00 W	0.60 c	1250 lm	1
	L 22 W C	0.14 A	20.00 W	0.60 c	1250 lm	1
	NS 11W G5					
	NS 15W G13					

Product name	Lamp group	EEI – Energy Label
QT-ECO 1X18...24 S	DULUX F 18 W	A2
	DULUX F 24 W	
	DULUX L 18 W	A2

Product datasheet

Product name	Lamp group	EEI – Energy Label
	DULUX L 24 W	
	FC 22 W	
	HNS-L 18W 2G11	
	HNS-L 24W 2G11	
	HO 24 W	
	L 15 W	A3
	L 18 W	A2
	L 22 W C	
	NS 11W G5	
	NS 15W G13	