

QUICKTRONIC® INTELLIGENT QT*i* GII

ECG for T5/Ø16mm, T8/Ø26mm and
various other lamp types



QT*i* GII



i.e. LUMILUX® T5 HO ES



Product Features:

- Up to 100.000 hours lifetime¹
- Lamp start with optimized filament preheating within 1 sec.
- Suitable for lighting with very high switching cycles
- Reliable lamp ignition between -20°C...+50°C
- Cut-off Technology
- Suitable for luminaires of protection classes I and II²
- CELMA Energy Efficiency Index **A2 BAT** (Best Available Technology)
- Automatic safety shut-down in case of a defect or at the end of the lamp's life (EoL T.2)
- Automatic restart after lamp replacement
- Suitable for emergency installations (DC operation)



Technical Data

Max. cable diameter for IDC-kontakt [mm ²]:	„S“ ³ : 0.5; „S-f“ ⁴ : 0.75
Max. cable diameter for push-in contact [mm ²]:	„S“ ³ : 0.5...1.0
Starting time:	t: < 1 sec. (<0.3 sec. in case of line interruptions/switchover of <0.5 sec.)
Line voltage:	220 - 240 V
Voltage range (AC):	198 - 264 V
Voltage range (DC):	176 - 276 V
Line frequency:	0, 50 - 60 Hz
Operating frequency:	42 - 85 kHz
Electrical strength:	300 V → permanent, 320 V → 48 hours, 350 V → 2 hours
Ambient temperature ta:	-20 °C to +50 °C
Measuring point temperature tc:	Max. +75 °C
U-OUT:	330 V

¹ at T = 65°C @ Tc. 50.000 h with max. 10% failure rate at tc = 75°C max

² No need to connect (functional) earth in suitable luminaires of protection class II




³ “s” = solid wire

⁴ “s-f” = stranded – flexible wire

Inrush current and max. number of ECG per circuit breaker

ECG	Inrush Current		Max. number of ECG per circuit breaker		
	I _p [A]	TH [μs]	B: 10A	B: 16A	C: 16 A
QT <i>i</i> 1x14/24/21/39 GII	24	230	17	28	47
QT <i>i</i> 2x14/24/21/39 GII	53	190	8	13	22
QT <i>i</i> 1x28/54/35/49 GII	24	230	17	28	47
QT <i>i</i> 2x28/54/35/49 GII	53	190	8	13	22
QT <i>i</i> 1x35/49/80 GII	53	190	8	13	22
QT <i>i</i> 2x35/49/80 GII	39	230	5	9	15
QT <i>i</i> 2x35/49/80	60	230	5	9	15

Standards and approval marks

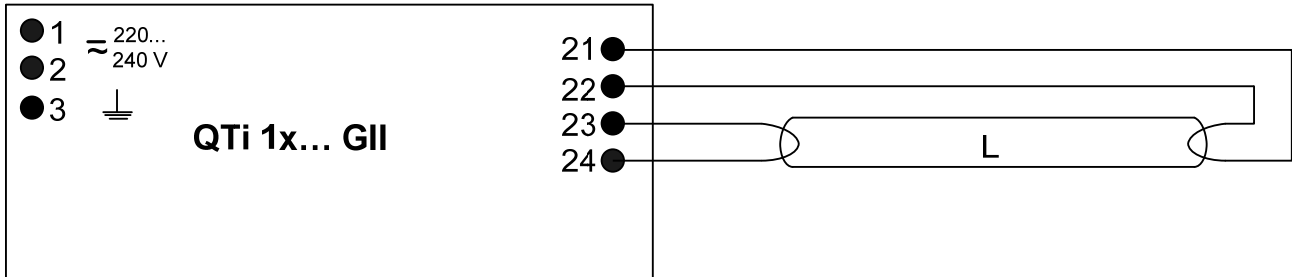
Safety:	acc. to EN 61347-2-3 / IEC 61347-2-3
Radio interference	acc. EN 55015: 2006 + A1: 2007 + A2: 2009
Harmonic content:	acc. to EN 61000-3-2 / IEC 61000-3-2
Immunity:	acc. to EN 61547 / IEC 61547
Approval marks:	  

Dimensions & weight

Description	Length [mm]	Width [mm]	Height [mm]	Distance mounting holes [mm]	Weight [g]
QT <i>i</i> 1x14/24/21/39 GII	360	30	21	350	220
QT <i>i</i> 2x14/24/21/39 GII	360	30	21	350	250
QT <i>i</i> 1x28/54/35/49 GII	360	30	21	350	240
QT <i>i</i> 2x28/54/35/49 GII	360	30	21	350	270
QT <i>i</i> 1x35/49/80 GII	360	30	21	350	240
QT <i>i</i> 2x35/49/80 GII	425	30	21	415	400
QT <i>i</i> 2x35/49/80	425	30	21	415	400

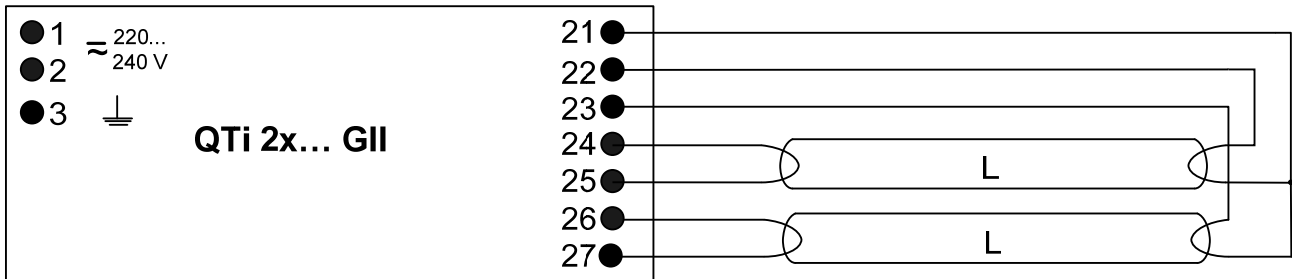
Lamp wiring

QT*i* 1x... GII



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

QT*i* 2x... GII



Max. permitted cable length in between ECG and lamp: 2.0 m (PIN 21, 22, 23); 1.0 m (PIN 24, 25, 26, 27)

Logistic Data

Description	EAN 10	EAN 40	Packaging Unit
QT <i>i</i> 1x14/24/21/39 GII	4008321383334	4008321383341	20
QT <i>i</i> 2x14/24/21/39 GII	4008321383396	4008321383402	20
QT <i>i</i> 1x28/54/35/49 GII	4008321383358	4008321383365	20
QT <i>i</i> 2x28/54/35/49 GII	4008321383419	4008321383426	20
QT <i>i</i> 1x35/49/80 GII	4008321383372	4008321383389	20
QT <i>i</i> 2x35/49/80 GII	4008321658951	4008321658968	20
QT <i>i</i> 2x35/49/80	4008321174291	4008321174307	20

Lifetime

Measuring point temperature t_c :	Lifetime with max. 10% failure rate
75 °C	50,000 h
65 °C	100,000 h

Lamp/ECG System Combination

ECG	Lamp	HF lamp wattage [W]	System wattage [W]	Line current [A]	Luminous flux at 25°C [lm]	Luminous flux at 35°C [lm]	Power factor [λ]
QTi 1x14/24/21/39 GII	HE 14	14	16	0.08	1200	1350	0.92c
	HE 21	21	24	0.11	1900	2100	0.94c
	HO 24	23	26	0.12	1750	2000	0.96
	HO 39	38	41	0.18	3100	3500	0.98
	HE 13 ES ^b	13	15	0.07	1150	1350	0.91c
	HE 19 ES ^b	19	22	0.10	1800	2100	0.94c
	HE 25 ES ^b	40	44	0.19	2x1650	2950	0.96
	HE 32 ES ^b	68	73	0.31	2x3250	3700	0.98
	HO 20 ES ^b	20	23	0.10	1650	2000	0.96
	HO 34 ES ^b	34	37	0.16	3250	3500	0.98
	T8 L 18 ^b	16	19	0.09	1300	-	0.93c
	T8 L 36 ^b	32	35	0.16	3200	-	0.96
	T8 L 38 ^b	32	36	0.16	3300	-	0.96
	DL/DF 36 ^b	30	34	0.15	2750	-	0.98
	DL 40 ^b	40	44	0.19	3500	-	0.98
	FC 22 ^b	22	25	0.12	1800	-	0.94c
	FC 40 ^b	40	43	0.19	3200	-	0.96
QTi 2x14/24/21/39 GII	2x HE 14	2x 14	31	0.15	2x 1200	2x 1350	0.95
	2x HE 21	2x 20.5	45	0.20	2x 1900	2x 2100	0.96
	2x HO 24	2x 23	50	0.23	2x 1750	2x 2000	0.96
	2x HO 39	2x 38	81	0.36	2x 3100	2x 3500	0.98
	2x HE 13 ES ^b	2x 13	29	0.125	2x1150	2x1350	0.95
	2x HE 19 ES ^b	2x 19	42	0.18	2x1800	2x2100	0.96
	2x HE 25 ES ^b	2x 25.5	56	0.26	2x2500	2x2950	0.96
	2x HE 32 ES ^b	2x 31.5	68	0.31	2x3150	2x3700	0.96
	2x HO 20 ES ^b	2x 20	44	0.19	2x1650	2x2000	0.96
	2x HO 34 ES ^b	2x 34	73	0.31	2x3250	2x3500	0.98
	2x T8 L 18 ^b	32	37	0.17	2x 1300	-	0.96
	2x T8 L 36 ^b	64	70	0.31	2x 3200	-	0.98
	2x T8 L 38 ^b	64	70	0.31	2x 3300	-	0.98

ECG	Lamp	HF lamp wattage [W]	System wattage [W]	Line current [A]	Luminous flux at 25°C [lm]	Luminous flux at 35°C [lm]	Power factor [λ]
QT <i>i</i> 2x14/24/21/39 GII	2x DL/DF 36 ^b	60	68	0.29	2x 2800	-	0.98
	2x DL 40 ^b	80	86	0.37	2x 3500	-	0.98
	2x FC 22 ^b	44	49	0.21	2x 1800	-	0.99
	2x FC 40 ^b	80	88	0.36	2x 3200	-	0.99
QT <i>i</i> 1x28/54/35/49 GII	HE 28	28	32	0.15	2600	2900	0.95
	HE 35	35	39	0.18	3320	3650	0.96
	HO 49	49	53	0.24	4310	4600	0.97
	HO 54	54	58	0.26	4450	5000	0.97
	DL 28	28	31	0.14	2700	2800	0.95
	HE 25 ES ^b	25	29	0.13	2500	2950	0.95
	HE 32 ES ^b	32	36	0.16	3150	3700	0.96
	HO 45 ES ^b	45	48	0.21	4310	4900	0.97
	HO 50 ES ^b	50	54	0.23	4450	5000	0.98
	DL 16 HE ^b	16	18	0.80	1500	1600	0.96
	DL 22 HE ^b	23	25	0.11	2200	2350	0.97
	DL 26 HE ^b	27	30	0.13	2600	2700	0.97
	T8 L 58 W ^b	50	55	0.24	5000	-	0.99
QT <i>i</i> 2x28/54/35/49 GII	2x HE 28	2x 28	61	0.28	2x 2600	2x 2900	0.96
	2x HE 35	2x 35	76	0.35	2x 3320	2x 3650	0.96
	2x HO 49	2x 49	105	0.46	2x 4310	2x 4600	0.98
	2x HO 54	2x 54	115	0.51	2x 4450	2x 5000	0.98
	2x DL 28	2x 28	60	0.27	2x 2700	2x 2800	0.96
	2x HE 25 ES ^b	51	56	0.26	2x 2500	2x 2950	0.96
	2x HE 32 ES ^b	63	68	0.31	2x 3150	2x 3700	0.96
	2x HO 45 ES ^b	90	98	0.42	2x 4310	2x 4900	0.99
	2x HO 50 ES ^b	100	108	0.46	2x 4450	2x 5050	0.99
	2x DL 16 HE ^b	32	35	0.15	2x 1500	2x 1600	0.99
	2x DL 22 HE ^b	45	49	0.21	2x 2200	2x 2350	0.99
	2x DL 26 HE ^b	54	59	0.26	2x 2600	2x 2700	0.99
	2x T8 L 58 W ^b	98	108	0.47	2x 5000	-	0.99
QT <i>i</i> 1x35/49/80 GII	HE 35	35	39	0.18	3320	3650	0.96
	HO 49	49	53	0.24	4310	4900	0.97
	HO 80	80	85	0.38	6150	7000	0.98
	DL 80	80	85	0.38	6000	-	0.98
	HE 32 ES ^b	32	36	0.16	3150	3700	0.96
	HO 45 ES ^b	45	48	0.21	4310	4900	0.97
	HO 73 ES ^b	73	79	0.34	6150	7000	0.98
	DL 26 HE ^b	27	30	0.13	2600	2700	0.97

GL LB EU&LM FT, Edition: 13.03.2012. Subject to change without notice. Despite careful review, the possibility of mistakes cannot be excluded – no guaranty will be provided.

ECG	Lamp	HF lamp wattage [W]	System wattage [W]	Line current [A]	Luminous flux at 25°C [lm]	Luminous flux at 35°C [lm]	Power factor [λ]
QT <i>i</i> 1x35/49/80 GII	DL 28 HE ⁵	28	31	0.14	2700	2800	0.95
	DL 55 ⁵	55	59	0.26	4800	-	0.99
	FC 55 ⁵	55	59	0.26	4200	-	0.99
QT <i>i</i> 2x35/49/80 GII	2x HE 35	2x 36	77	0.36	2x 3400	2x 3750	0.98
	2x HO 49	2x 49	105	0.45	2x 4310	2x 4900	0.99
	2x HO 80	2x 80	167	0.70	2x 6150	2x 7000	0.99
	2x HE 32 ES	2x 33	70	0.33	2x 3150	2x 3700	0.97
	2x HO 45 ES	2x 45	95	0.43	2x 4310	2x 4900	0.99
	2x HO 73 ES	2x 73	155	0.66	2x 6150	2x 7000	0.99
	2x DL 80	2x 80	167	0.70	2x 6000	-	0.99
	2x HE 14 ⁵	2x 15	34	0.18	2x 1250	2x 1400	0.95
	2x HE 21 ⁵	2x 22	49	0.23	2x 2000	2x 2200	0.96
	2x HE 28 ⁵	2x 29	63	0.30	2x 2650	2x 2950	0.97
	2x HE 13 ES ⁵	2x 13	30	0.16	2x 1150	2x 1350	0.95
	2x HE 19 ES ⁵	2x 19	43	0.21	2x 1800	2x 2100	0.96
	2x HE 25 ES ⁵	2x 26	57	0.27	2x 2500	2x 2950	0.97
	2x DL 26 HE ⁵	2x 27	59	0.27	2x 2650	2x 2750	0.96
	2x DL 28 HE ⁵	2x 28	61	0.27	2x 2700	2x 2800	0.97
	2x DL 55 ⁵	2x 55	119	0.53	2x 4800	-	0.98
	2x FC 55 ⁵	2x 55	119	0.53	2x 4200	-	0.98
QT <i>i</i> 2x35/49/80	2x HE 35	2x 35	75	0.34	2x 3320	2x 3650	0.95
	2x HO 49	2x 49	104	0.46	2x 4310	2x 4900	0.97
	2x HO 80	2x 80	165	0.74	2x 6150	-	0.99

For more information on ECG refer to <http://www.osram.com/ecg>

For more information on System Guarantee refer to <http://www.osram.com/guarantee>

⁵ Additional Lamp-ballast combination without ENEC

GL LB EU&LM FT, Edition: 13.03.2012. Subject to change without notice. Despite careful review, the possibility of mistakes cannot be excluded – no guaranty will be provided.