QUICKTRONIC® FIT
QT-FIT5/8

ECG for T5/∅16mm and T8/∅26mm linear fluorescent lamps

QT- FIT5/8

i.e. LUMILUX® T5

Product Features:

- 50,000 hours lifetime[1]
- Lamp start with optimized filament preheating within 2 s
- Suitable for lighting with very high switching cycles
- Reliable lamp ignition between -15°C...+50°C
- Suitable for luminaries of protection class I
- CELMA Energy Efficiency Index A2
- 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 DC installations

Technical Data

Max. cross section push-in contact [mm²]:	s[2]: 0.5 - 1.5
Starting time:	< 2 sec.
Line voltage:	220 - 240 V
Voltage range (AC):	198 - 264 V
Voltage range (DC):	185 – 276 V; for lamp ignition min. 198 V; max. 1 hour 185 - 198V
Line frequency:	50 - 60 Hz
Operating frequency:	40 - 50 kHz
Electrical strength:	280 V ➔ permanent; 300 V ➔ 2 hours
Ambient temperature ta:	-15°C to +50 °C
Measuring point temperature tc:	Max. +75 °C
U-OUT:	430 V

[1] Average lifetime
[2] s = solid wire

Inrush current and max. number of ECG per circuit breaker

ECG	Inrush Current		Max. number of ECG per circuit breaker		
	Ip [A]	TH [µs]	B: 10A	B: 16A	C: 16 A
QT- FIT5/8 1x18-39	24	230	17	28	47
QT- FIT5/8 2x18-39	40	200	12	19	32
QT- FIT5/8 1x54-58	24	230	17	28	47
QT- FIT5/8 2x54-58	53	200	8	13	22

Standards and approval marks

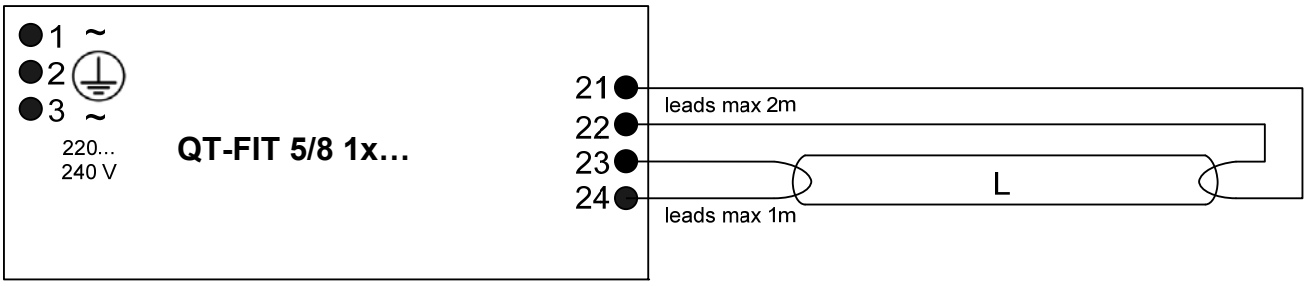
Safety:	acc. to EN 61347-2-3 / IEC 61347-2-3
Radio interference:	acc. EN 55015: 2006 + A1: 2007 + A2: 2009
Harmonic content:	acc. to EN 61000-3-2 / IEC 61000-3-2
Immunity:	acc. to EN 61547 / IEC 61547
Approval marks:	

Dimensions & weight

Description	Length [mm]	Width [mm]	Height [mm]	Distance Mounting Holes [mm]	Weight [g]
QT- FIT5/8 1x18-39	280	30	21	270	160
QT- FIT5/8 2x18-39	280	30	21	270	185
QT- FIT5/8 1x54-58	280	30	21	270	220
QT- FIT5/8 2x54-58	280	30	21	270	165

Lamp wiring

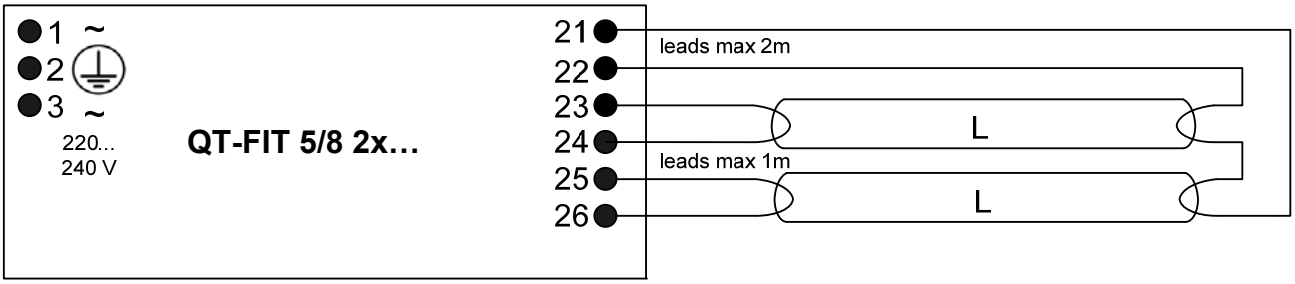
QT-FIT 5/8 1x…



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

QT-FIT 5/8 2x…

Max. permitted cable length in between ECG and lamp: 2.0 m (PIN 21, 22); 1.5 m (PIN 23, 24); 1.0 m (PIN 25, 26)



Logistic Data

Description	EAN 10	EAN 40	Packaging Unit
QT- FIT5/8 1x18-39	4008321873927	4008321873934	20
QT- FIT5/8 2x18-39	4008321873903	4008321873910	20
QT- FIT5/8 1x54-58	4008321873828	4008321873835	20
QT- FIT5/8 2x54-58	4008321873842	4008321873859	20

Lifetime

Measuring point temperature tc:	Lifetime with max. 10% failure rate
75 °C	30,000 h
70 °C	50,000 h

Expected lifetime

			ECG ambient temperature (ta)		
ECG	Lamp		40°C	50°C	60°C
QT- FIT5/8 1x18-39	HO 24	lifetime [h]	100,000	70,000	40,000
		temperature at tc-point [°C]	55	65	70
	HO 39	lifetime [h]	100,000	60,000	30,000
		temperature at tc-point [°C]	55	65	75
	L18	lifetime [h]	100,000	70,000	40,000
		temperature at tc-point [°C]	55	65	70
	L30	lifetime [h]	100,000	70,000	40,000
		temperature at tc-point [°C]	55	65	70
	L36	lifetime [h]	100,000	60,000	40,000
		temperature at tc-point [°C]	55	65	75
QT- FIT5/8 2x18-39	HO 24	lifetime [h]	100,000	100,000	70,000
		temperature at tc-point [°C]	55	60	70
	HO 39	lifetime [h]	100,000	70,000	X
		temperature at tc-point [°C]	60	70	X
	L18	lifetime [h]	100,000	100,000	80,000
		temperature at tc-point [°C]	50	60	70
	L30	lifetime [h]	100,000	100,000	60,000
		temperature at tc-point [°C]	55	65	75
	L36	lifetime [h]	100,000	100,000	60,000
		temperature at tc-point [°C]	55	65	75
QT- FIT 5/8 1x54-58	HO 54	lifetime [h]	100,000	80,000	50,000
		temperature at tc-point [°C]	50	60	70
	L 58	lifetime [h]	100,000	80,000	50,000
		temperature at tc-point [°C]	50	60	70
QT- FIT 5/8 2x54-58	HO 54	lifetime [h]	60,000	30,000	X
		temperature at tc-point [°C]	65	75	X
	L 58	lifetime [h]	70,000	40,000	X
		temperature at tc-point [°C]	65	70	X

Expected lifetime is the calculation of the ECG lifetime according to IEC_60929_Edition_4_2011. As background for this estimation, are the MTTF values according to SN 29500 and the component- parameters used

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]
QT- FIT5/8 1x18-39	L 16 ES	14.2	In preparation	In preparation	1350	-	In preparation
	L 18	16	21	0.09	1350	-	0.98
	HO 20 ES	20	25	0.12	1650	2000	0.98
	HO 24	23	28	0.13	1750	2000	0.98
	L 30	24	33	0.15	3000	-	0.98
	L 32 ES	29	In preparation	In preparation	2500	-	In preparation
	L 36	32	37	0.16	3200	-	0.98
	HO ES 34 W	32	38	0.17	3100	3650	0.98
	HO 39	38	42	0.19	3100	3500	0.98
QT- FIT5/8 2x18-39	L 16 ES	14.2	In preparation	In preparation	1350	-	In preparation
	L 18	16	39	0.18	1350	-	0.98
	HO 20 ES	20	47	0.21	1650	2000	0.98
	HO 24	23	53	0.24	1750	2000	0.98
	L 30	24	63	0.27	3000	-	0.98
	L 32 ES	29	In preparation	In preparation	2500	-	In preparation
	L 36	32	70	0.31	3200	-	0.98
	HO ES 34 W	32	75	0.33	3100	3650	0.98
	HO 39	38	80	0.36	3100	3500	0.98
QT- FIT5/8 1x54-58	HO 50 ES	50	54	0.24	4450	5000	0.98
	L 51 ES	44.5	In preparation	In preparation	4200	-	In preparation
	HO 54	54	54	0.24	4450	5000	0.98
	L 58	50	58	0.24	5000	-	0.98
QT- FIT5/8 2x54-58	HO 50 ES	50	108	0.46	4450	5000	0.98
	L 51 ES	44.5	In preparation	In preparation	4200	-	In preparation
	HO 54	54	108	0.48	4450	5000	0.98
	L 58	50	110	0.48	5000	-	0.98

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

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