



PC T5 TOP Ip, 14 – 54 W for Europe, Middle East, Africa and America
PC TOP

Product description

- CELMA Energy Efficiency Index A2
- Nominal life up to 50,000 hours (at ta. 50 °C with a failure rate max. 0.2 % per 1,000 hours)
- Large temperature range (for values see table)
- Fixed frequency operation for constant lamp current
- Lamp preheating for min. 30,000 starts without replacement of lamps
- Constant luminous flux irrespective of fluctuations in mains voltage
- Designed for THD < 10 %
- For luminaires of protection class I and protection class II
- Automatic start after replacement of defective lamps (detects 1 lamp)
- Safety shutdown of defective lamps and at end of lamp life
- Push terminal for rapid automatic or manual wiring
- For emergency lighting systems as per EN 50172

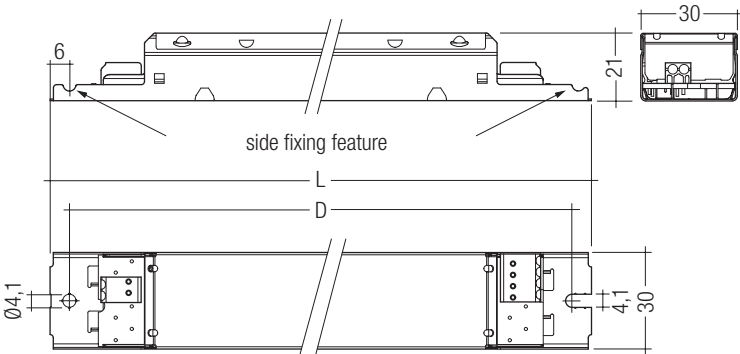
Technical data

Mains voltage range	220 – 240 V
AC voltage range	198 – 264 V
DC voltage range	176 – 280 V (lamp start ≥ 198 V DC)
Mains frequency	0 / 50 / 60 Hz
Overvoltage protection	320 V AC, 1 h
Defined warm start	≤ 1.5 s
Operating frequency	≥ 40 kHz
Type of protection	IP20



Standards, page 3

Wiring diagrams and installation examples, page 7



Ordering data

Type	Article number	Packaging, carton	Packaging, pallet	Weight per piece
For luminaires with 1 lamp				
PC 1x14-35 T5 TOP Ip	28000023	10 pcs.	960 pcs.	0.165 kg
PC 1x24 T5 TOP Ip	28000025	10 pcs.	960 pcs.	0.165 kg
PC 1x39 T5 TOP Ip	28000027	10 pcs.	960 pcs.	0.165 kg
PC 1x49 T5 TOP Ip	28000029	10 pcs.	960 pcs.	0.165 kg
PC 1x54 T5 TOP Ip	28000031	10 pcs.	960 pcs.	0.165 kg
For luminaires with 2 lamps				
PC 2x14-28 T5 TOP Ip	28000024	10 pcs.	760 pcs.	0.245 kg
PC 2x35 T5 TOP Ip	28000047	10 pcs.	760 pcs.	0.250 kg
PC 2x24 T5 TOP Ip	28000026	10 pcs.	760 pcs.	0.210 kg
PC 2x39 T5 TOP Ip	28000028	10 pcs.	760 pcs.	0.235 kg
PC 2x49 T5 TOP Ip	28000030	10 pcs.	760 pcs.	0.250 kg
PC 2x54 T5 TOP Ip	28000032	10 pcs.	760 pcs.	0.245 kg
For luminaires with 3 or 4 lamps				
PC 3/4x14 T5 TOP Ip	22185220	10 pcs.	760 pcs.	0.245 kg
PC 3/4x24 T5 TOP Ip	22185221	10 pcs.	760 pcs.	0.250 kg

Specific technical data

Lamp wattage	Lamp type	Type	Article number	Dimensions L x W x H	Hole spacing D	Lamp wattage	Circuit power	EEI	Current at 50 Hz		λ at 50 Hz		tc point	Ambient temperature ta	tc / ta for ≥ 50,000 h
									220 V	240 V	220 V	240 V			
For luminaires with 1 lamp															
1 x 14 W	T5	PC 1x14-35 T5 TOP Ip	28000023	280 x 30 x 21 mm	270 mm	14.7 W	17.5 W	A2	0.077 A	0.069 A	0.97	0.95	60 °C	-20 ... 55 °C	55/50 °C
1 x 21 W	T5	PC 1x14-35 T5 TOP Ip	28000023	280 x 30 x 21 mm	270 mm	20.6 W	24.0 W	A2	0.106 A	0.095 A	0.97	0.95	65 °C	-20 ... 55 °C	60/50 °C
1 x 28 W	T5	PC 1x14-35 T5 TOP Ip	28000023	280 x 30 x 21 mm	270 mm	27.9 W	32.0 W	A2	0.143 A	0.128 A	0.98	0.96	65 °C	-20 ... 55 °C	60/50 °C
1 x 35 W	T5	PC 1x14-35 T5 TOP Ip	28000023	280 x 30 x 21 mm	270 mm	35.5 W	39.0 W	A2	0.176 A	0.158 A	0.99	0.97	70 °C	-20 ... 55 °C	65/50 °C
1 x 24 W	T5	PC 1x24 T5 TOP Ip	28000025	280 x 30 x 21 mm	270 mm	22.5 W	26.5 W	A2	0.118 A	0.106 A	0.98	0.96	65 °C	-20 ... 55 °C	60/50 °C
1 x 39 W	T5	PC 1x39 T5 TOP Ip	28000027	280 x 30 x 21 mm	270 mm	38.0 W	43.0 W	A2	0.192 A	0.172 A	0.98	0.96	70 °C	-20 ... 55 °C	65/50 °C
1 x 49 W	T5	PC 1x49 T5 TOP Ip	28000029	280 x 30 x 21 mm	270 mm	49.2 W	55.5 W	A2	0.247 A	0.222 A	0.98	0.96	75 °C	-20 ... 55 °C	70/50 °C
1 x 54 W	T5	PC 1x54 T5 TOP Ip	28000031	280 x 30 x 21 mm	270 mm	54.1 W	60.0 W	A2	0.267 A	0.240 A	0.98	0.96	75 °C	-20 ... 55 °C	70/50 °C
For luminaires with 2 lamps															
2 x 14 W	T5	PC 2x14-28 T5 TOP Ip	28000024	360 x 30 x 21 mm	350 mm	29.4 W	35.0 W	A2	0.154 A	0.139 A	0.97	0.95	65 °C	-20 ... 55 °C	60/50 °C
2 x 21 W	T5	PC 2x14-28 T5 TOP Ip	28000024	360 x 30 x 21 mm	350 mm	41.2 W	49.0 W	A2	0.216 A	0.194 A	0.97	0.95	65 °C	-20 ... 55 °C	60/50 °C
2 x 28 W	T5	PC 2x14-28 T5 TOP Ip	28000024	360 x 30 x 21 mm	350 mm	55.8 W	64.0 W	A2	0.285 A	0.256 A	0.98	0.96	70 °C	-20 ... 55 °C	65/50 °C
2 x 35 W	T5	PC 2x35 T5 TOP Ip	28000047	360 x 30 x 21 mm	350 mm	71.0 W	76.0 W	A2	0.342 A	0.309 A	0.99	0.97	80 °C	-20 ... 55 °C	75/50 °C
2 x 24 W	T5	PC 2x24 T5 TOP Ip	28000026	360 x 30 x 21 mm	350 mm	45.0 W	52.0 W	A2	0.232 A	0.208 A	0.98	0.96	70 °C	-20 ... 55 °C	65/50 °C
2 x 39 W	T5	PC 2x39 T5 TOP Ip	28000028	360 x 30 x 21 mm	350 mm	76.0 W	86.0 W	A2	0.383 A	0.344 A	0.98	0.96	75 °C	-20 ... 55 °C	70/50 °C
2 x 49 W	T5	PC 2x49 T5 TOP Ip	28000030	360 x 30 x 21 mm	350 mm	98.4 W	110.6 W	A2	0.498 A	0.447 A	0.99	0.97	80 °C	-20 ... 55 °C	75/50 °C
2 x 54 W	T5	PC 2x54 T5 TOP Ip	28000032	360 x 30 x 21 mm	350 mm	108.2 W	120.0 W	A2	0.540 A	0.485 A	0.99	0.97	80 °C	-20 ... 55 °C	75/50 °C
For luminaires with 3 or 4 lamps															
3 x 14 W	T5	PC 3/4x14 T5 TOP Ip	22185220	360 x 30 x 21 mm	350 mm	tbd	tbd	A2	tbd	tbd	tbd	tbd	tbd	tbd	tbd
4 x 14 W	T5	PC 3/4x14 T5 TOP Ip	22185220	360 x 30 x 21 mm	350 mm	tbd	tbd	A2	tbd	tbd	tbd	tbd	tbd	tbd	tbd
3 x 24 W	T5	PC 3/4x24 T5 TOP Ip	22185221	360 x 30 x 21 mm	350 mm	tbd	tbd	A2	tbd	tbd	tbd	tbd	tbd	tbd	tbd
4 x 24 W	T5	PC 3/4x24 T5 TOP Ip	22185221	360 x 30 x 21 mm	350 mm	tbd	tbd	A2	tbd	tbd	tbd	tbd	tbd	tbd	tbd

Standards

EN 55015
EN 61347-2-3
EN 60929
EN 61000-3-2
EN 61000-3-3
EN 61547
in accordance with EN 50172
IEC 60068-2-64 Fh
IEC 60068-2-29 Eb
IEC 60068-2-30

Lamp starting characteristics

Warm start
Starting time 1.5 s with AC and DC operation
Cathode heating will be reduced after preheat time

Lamp operation

Fix-frequent (equivalent to current controlled)

AC operation

Mains voltage:
220–240 V 50/60 Hz
198–264 V 50/60 Hz including safety
tolerance ($\pm 10\%$)
202–254 V 50/60 Hz including performance
tolerance ($+6\%$ / -8%)

DC operation

220–240 V 0 Hz
198–280 V 0 Hz certain lamp start
176–280 V 0 Hz operating range
Light output level in DC operation: 100 %

Emergency lighting

Use in emergency lighting installations according
to EN 50172 or for emergency luminaires
according to EN 61347-2-3 appendix J.

Instant start after mains interruption < 0.5 s
Mains current for defective or missing lamps at
DC operation < 5 mA

Mains currents in DC operation

Type	lamp type	wattage	mains current at $U_n = 220V_{DC}$	mains current at $U_n = 240V_{DC}$
PC 1x14-35 T5 TOP Ip	T5	1x14 W	77 mA	69 mA
	T5	1x21 W	106 mA	95 mA
	T5	1x28 W	143 mA	128 mA
	T5	1x35 W	176 mA	158 mA
PC 1x24 T5 TOP Ip	T5	1x24 W	118 mA	106 mA
PC 1x39 T5 TOP Ip	T5	1x39 W	192 mA	172 mA
PC 1x49 T5 TOP Ip	T5	1x49 W	247 mA	222 mA
PC 1x54 T5 TOP Ip	T5	1x54 W	267 mA	240 mA
PC 2x14-28 T5 TOP Ip	T5	2x14 W	154 mA	139 mA
	T5	2x21 W	216 mA	194 mA
	T5	2x28 W	285 mA	256 mA
PC 2x35 T5 TOP Ip	T5	2x35 W	342 mA	309 mA
PC 2x24 T5 TOP Ip	T5	2x24 W	232 mA	208 mA
PC 2x39 T5 TOP Ip	T5	2x39 W	383 mA	344 mA
PC 2x49 T5 TOP Ip	T5	2x49 W	498 mA	447 mA
PC 2x54 T5 TOP Ip	T5	2x54 W	540 mA	485 mA
PC 3/4x14 T5 TOP Ip	T5	3x14 W	tbd	tbd
	T5	4x14 W	tbd	tbd
PC 3/4x24 T5 TOP Ip	T5	3x24 W	tbd	tbd
	T5	4x24 W	tbd	tbd

Harmonic distortion in the mains supply

Type	lamp type	wattage	THD at 230V/50Hz
PC 1x14-35 T5 TOP Ip	T5	1x14 W	$< 15\%$
	T5	1x21 W	$< 10\%$
	T5	1x28 W	$< 10\%$
	T5	1x35 W	$< 10\%$
PC 1x24 T5 TOP Ip	T5	1x24 W	$< 10\%$
PC 1x39 T5 TOP Ip	T5	1x39 W	$< 10\%$
PC 1x49 T5 TOP Ip	T5	1x49 W	$< 10\%$
PC 1x54 T5 TOP Ip	T5	1x54 W	$< 10\%$
PC 2x14-28 T5 TOP Ip	T5	2x14 W	$< 15\%$
	T5	2x21 W	$< 10\%$
	T5	2x28 W	$< 10\%$
PC 2x35 T5 TOP Ip	T5	2x35 W	$< 10\%$
PC 2x24 T5 TOP Ip	T5	2x24 W	$< 10\%$
PC 2x39 T5 TOP Ip	T5	2x39 W	$< 10\%$
PC 2x49 T5 TOP Ip	T5	2x49 W	$< 10\%$
PC 2x54 T5 TOP Ip	T5	2x54 W	$< 10\%$
PC 3/4x14 T5 TOP Ip	T5	3x14 W	tbd
	T5	4x14 W	tbd
PC 3/4x24 T5 TOP Ip	T5	3x24 W	tbd
	T5	4x24 W	tbd

Output voltage

Type	lamp type	wattage	U _{out}
PC 1x14-35 T5 TOP Ip	T5	1x14 W	430 V
	T5	1x21 W	430 V
	T5	1x28 W	430 V
	T5	1x35 W	430 V
PC 1x24 T5 TOP Ip	T5	1x24 W	430 V
PC 1x39 T5 TOP Ip	T5	1x39 W	430 V
PC 1x49 T5 TOP Ip	T5	1x49 W	430 V
PC 1x54 T5 TOP Ip	T5	1x54 W	430 V
PC 2x14-28 T5 TOP Ip	T5	2x14 W	430 V
	T5	2x21 W	430 V
	T5	2x28 W	430 V
PC 2x35 T5 TOP Ip	T5	2x35 W	430 V
PC 2x24 T5 TOP Ip	T5	2x24 W	430 V
PC 2x39 T5 TOP Ip	T5	2x39 W	430 V
PC 2x49 T5 TOP Ip	T5	2x49 W	430 V
PC 2x54 T5 TOP Ip	T5	2x54 W	430 V
PC 3/4x14 T5 TOP Ip	T5	3x14 W	tbd
	T5	4x14 W	tbd
PC 3/4x24 T5 TOP Ip	T5	3x24 W	tbd
	T5	4x24 W	tbd

Ballast lumen factor (EN 60929 8.1)

Type	lamp type	wattage	AC/DC-BLF at U = 198–254 V, 25 °C
PC 1x14-35 T5 TOP Ip	T5	1x14 W	1.05 (± 5 %)
	T5	1x21 W	1.00 (± 5 %)
	T5	1x28 W	1.00 (± 5 %)
	T5	1x35 W	1.00 (± 5 %)
PC 1x24 T5 TOP Ip	T5	1x24 W	1.00 (± 5 %)
PC 1x39 T5 TOP Ip	T5	1x39 W	1.00 (± 5 %)
PC 1x49 T5 TOP Ip	T5	1x49 W	1.00 (± 5 %)
PC 1x54 T5 TOP Ip	T5	1x54 W	1.00 (± 5 %)
PC 2x14-28 T5 TOP Ip	T5	2x14 W	1.05 (± 5 %)
	T5	2x21 W	1.05 (± 5 %)
	T5	2x28 W	1.00 (± 5 %)
PC 2x35 T5 TOP Ip	T5	2x35 W	1.00 (± 5 %)
PC 2x24 T5 TOP Ip	T5	2x24 W	1.00 (± 5 %)
PC 2x39 T5 TOP Ip	T5	2x39 W	1.00 (± 5 %)
PC 2x49 T5 TOP Ip	T5	2x49 W	1.00 (± 5 %)
PC 2x54 T5 TOP Ip	T5	2x54 W	1.00 (± 5 %)
PC 3/4x14 T5 TOP Ip	T5	3x14 W	1.00 (± 5 %)
	T5	4x14 W	1.00 (± 5 %)
PC 3/4x24 T5 TOP Ip	T5	3x24 W	1.00 (± 5 %)
	T5	4x24 W	1.00 (± 5 %)

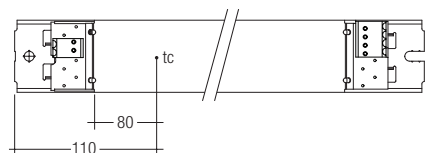
Energy class CELMA EEI = A2¹⁾

PC T5 TOP Ip optimises lamp start and ensures no energy is wasted. After the lamp has struck the filament heating is reduced automatically to a minimum value. This reduction in filament heating, saves energy, yet maintains the proper operating conditions for the lamp. The lamp is always operated within specification.

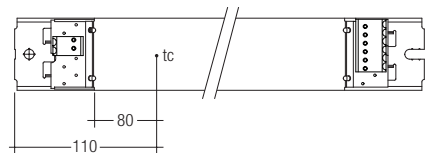
¹⁾ according to the EU directives on ecodesign requirements (EC) No. 245/2009 and (EC) No. 347/2010

Ambient temperature

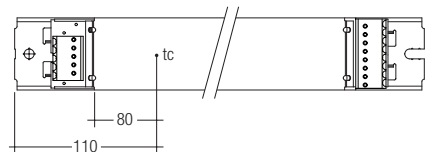
PC 1x... T5 TOP Ip



PC 2x... T5 TOP Ip



PC 3/4x... T5 TOP Ip



The nominal ta and tc point are related to the ballast life duration.

The relation of tc to ta temperature depends also on the luminaire design. If the measured tc temperature is approx. 5 K below tc max., ta temperature should be checked and eventually critical components (e.g. ELCAP) measured. Detailed information on request.

PC T5 TOP Ip is designed for an average service life of 50,000 hours (at ta for ≥ 50,000 h) under reference conditions and with a failure probability of less than 10 %. This corresponds to an average failure rate of 0.2 % for every 1,000 hours of operation.

Humidity: 5 % up to max. 85 %,
not condensed
(max. 56 days/year at 85 %)

Storage temperature: -40 °C up to max. +80 °C

The devices have to be within the specified temperature range (ta) before they can be operated.

Expected lifetime

Type	Lamp type	Lamp power	ta	40 °C	50 °C	55 °C	60 °C
PC 1x14-35 T5 TOP Ip	T5	1x14 W	tc	45 °C	55 °C	60 °C	x
			Lifetime	100,000 h	50,000 h	30,000 h	x
		1x21 W	tc	50 °C	60 °C	65 °C	x
			Lifetime	100,000 h	50,000 h	30,000 h	x
		1x28 W	tc	50 °C	60 °C	65 °C	x
			Lifetime	100,000 h	50,000 h	30,000 h	x
		1x35 W	tc	55 °C	65 °C	70 °C	x
			Lifetime	100,000 h	50,000 h	30,000 h	x
PC 1x24 T5 TOP Ip	T5	1x24 W	tc	50 °C	60 °C	65 °C	x
			Lifetime	100,000 h	50,000 h	30,000 h	x
PC 1x39 T5 TOP Ip	T5	1x39 W	tc	55 °C	65 °C	70 °C	x
			Lifetime	100,000 h	50,000 h	30,000 h	x
PC 1x49 T5 TOP Ip	T5	1x49 W	tc	60 °C	70 °C	75 °C	x
			Lifetime	100,000 h	50,000 h	30,000 h	x
PC 1x54 T5 TOP Ip	T5	1x54 W	tc	60 °C	70 °C	75 °C	x
			Lifetime	100,000 h	50,000 h	30,000 h	x
PC 2x14-28 T5 TOP Ip	T5	2x14 W	tc	50 °C	60 °C	65 °C	x
			Lifetime	100,000 h	50,000 h	30,000 h	x
		2x21 W	tc	50 °C	60 °C	65 °C	x
			Lifetime	100,000 h	50,000 h	30,000 h	x
		2x28 W	tc	55 °C	65 °C	70 °C	x
			Lifetime	100,000 h	50,000 h	30,000 h	x
PC 2x35 T5 TOP Ip	T5	2x35 W	tc	65 °C	75 °C	80 °C	x
			Lifetime	100,000 h	50,000 h	30,000 h	x
PC 2x24 T5 TOP Ip	T5	2x24 W	tc	55 °C	65 °C	70 °C	x
			Lifetime	100,000 h	50,000 h	30,000 h	x
PC 2x39 T5 TOP Ip	T5	2x39 W	tc	60 °C	70 °C	75 °C	x
			Lifetime	100,000 h	50,000 h	30,000 h	x
PC 2x49 T5 TOP Ip	T5	2x49 W	tc	65 °C	75 °C	80 °C	x
			Lifetime	85,000 h	50,000 h	30,000 h	x
PC 2x54 T5 TOP Ip	T5	2x54 W	tc	70 °C	75 °C	80 °C	x
			Lifetime	75,000 h	50,000 h	30,000 h	x
PC 3/4x14 T5 TOP Ip	T5	3x14 W	tc	in preparation			
		4x14 W	Lifetime				
PC 3/4x24 T5 TOP Ip	T5	3x24 W	tc	in preparation			
		4x24 W	Lifetime				

x = not permitted

Maximum loading of automatic circuit breakers

Automatic circuit breaker type	C10	C13	C16	C20	B10	B13	B16	B20	Inrush current	
Installation Ø	1.5 mm ²	1.5 mm ²	1.5 mm ²	2.5 mm ²	1.5 mm ²	1.5 mm ²	1.5 mm ²	2.5 mm ²	I _{max}	Pulse
PC 1x14-35 T5 TOP Ip	32	44	50	64	16	22	25	32	13.0 A	211 µs
PC 1x24 T5 TOP Ip	28	40	44	58	14	20	22	29	13.2 A	212 µs
PC 1x39 T5 TOP Ip	28	40	44	58	14	20	22	29	14.0 A	213 µs
PC 1x49 T5 TOP Ip	28	40	44	58	14	20	22	29	17.3 A	174 µs
PC 1x54 T5 TOP Ip	28	40	44	58	14	20	22	29	18.0 A	171 µs
PC 2x14-28 T5 TOP Ip	18	24	28	34	9	12	14	17	21.3 A	225 µs
PC 2x35 T5 TOP Ip	18	24	28	34	9	12	14	17	21.3 A	225 µs
PC 2x24 T5 TOP Ip	28	40	44	58	14	20	22	29	17.3 A	173 µs
PC 2x39 T5 TOP Ip	18	28	30	36	9	14	15	18	33.8 A	165 µs
PC 2x49 T5 TOP Ip	14	16	24	28	7	8	12	14	37.4 A	190 µs
PC 2x54 T5 TOP Ip	14	16	24	28	7	8	12	14	37.7 A	182 µs
PC 3/4x14 T5 TOP Ip	tbd	tbd	tbd	tbd	tbd	tbd	tbd	tbd	tbd	tbd
PC 3/4x24 T5 TOP Ip	tbd	tbd	tbd	tbd	tbd	tbd	tbd	tbd	tbd	tbd

Wiring advice

The lead length is dependant on the capacitance of the cable.
For safety reasons, the PC T5 TOP Ip must only be earthed in the case of a safety class 1 luminaire.
Earthing is not required for the device to operate. Connection to earth reduces radio interference.

With standard solid wire 0.5/0.75 mm² the capacitance of the lead is 30–80 pF/m. This value is influenced by the way the wiring is made.

- keep lamp wires short
- lamp connection with multi-lamp ballasts should be made with symmetrical wiring
- lamp leads marked with * should be separated as much as possible from other lamp leads

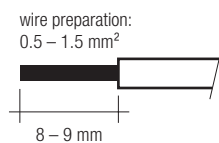
Ballast	Terminal	Maximum capacitance allowed			
		Cold	Hot	Cold	Hot
PC 1x... T5 TOP Ip		13, 14	15, 16	200 pF	100 pF
PC 2x14/21/28/35/39/54 T5 TOP Ip	11, 12, 13, 14		15, 16	200 pF	100 pF
PC 2x49 T5 TOP Ip	12, 13, 14	10, 11, 15, 16		200 pF	100 pF
PC 3x... T5 TOP Ip	9, 10, 11, 12, 13, 14	15, 16		200 pF	100 pF
PC 4x... T5 TOP Ip	6, 7, 9, 10, 11, 12, 13, 14		15, 16	200 pF	100 pF

To avoid the damage of the control gear, the wiring must be protected against short circuits to earth (sharp edged metal parts, metal cable clips, louver, etc.)

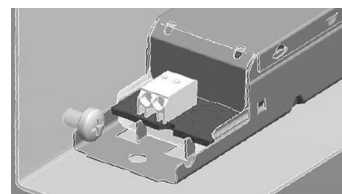
Installation instructions

Wiring type and cross section

Solid wire with a cross section of 0.5–1.5 mm². Strip 8–9 mm of insulation from the cables to ensure perfect operation of terminals.



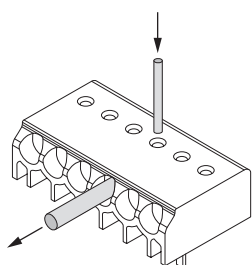
Side fixing feature



Screw M4, screw head diameter 8–10 mm

Release of the wiring

Loosen wire through twisting and pulling or using a Ø 1 mm release tool.



Defective lamp

If a lamp is defective, the ballast switches off and goes into standby. There is an automatic restart once the lamp has been changed.

T5 lamp information

	wattage	length
	14/24 W	549 mm
	21/39 W	849 mm
	28/54 W	1149 mm
	35/49/80 W	1449 mm

RFI

Tridonic ballasts are RFI protected in accordance with EN 55015. To operate the luminaire correctly and to minimise RFI we recommend the following instructions:

- Connection to the lamps of the "hot leads" must be kept as short as possible (marked with *)
- Mains leads should be kept apart from lamp leads (ideally 5–10 cm distance)
- Do not run mains leads adjacent to the electronic ballast
- Twist the lamp leads
- Keep the distance of lamp leads from the metal work as large as possible
- Ballast must be earthed, either over the terminal or over the mounting screw of the ballast
- Mains wiring to be twisted when through wiring
- Keep the mains leads inside the luminaire as short as possible

Isolation and electric strength testing of luminaires

Electronic devices can be damaged by high voltage. This has to be considered during the routine testing of the luminaires in production.

According to IEC 60598-1 Annex Q (informative only) or ENEC 303-Annex A, each luminaire should be submitted to an isolation test with 500 V_{DC} for 1 second. This test voltage should be connected between the interconnected phase and neutral terminals and the earth terminal.

The isolation resistance must be at least 2 MΩ.

As an alternative, IEC 60598-1 Annex Q describes a test of the electrical strength with 1500 V_{AC} (or 1.414 x 1500 V_{DC}). To avoid damage to the electronic devices this test must not be conducted.

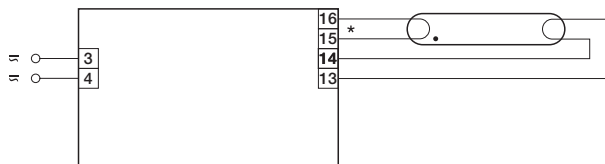
Additional information

Additional technical information at www.tridonic.com → Technical Data

Guarantee conditions at www.tridonic.com → Services

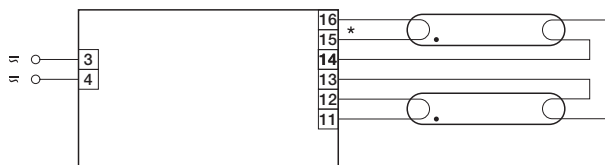
No warranty if device was opened.

Wiring diagrams



* leads 15, 16 max. 1.0 m (< 100 pF)
leads 13, 14 max. 2.0 m (< 200 pF)
Protection class I – luminaires: earth of ballast housing required (according to IEC 598)
Protection class II – luminaires: no earth required

PC 1x... T5 TOP Ip

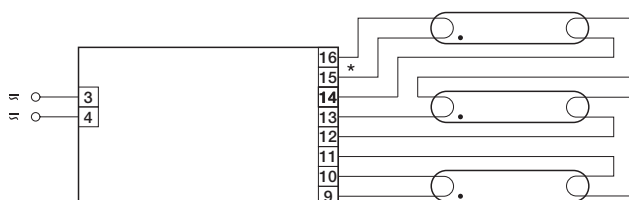


* leads 15, 16 max. 1.0 m (< 100 pF)
leads 11, 12, 13, 14 max. 2.0 m (< 200 pF)
Protection class I – luminaires: earth of ballast housing required (according to IEC 598)
Protection class II – luminaires: no earth required

PC 2x24 T5 TOP Ip

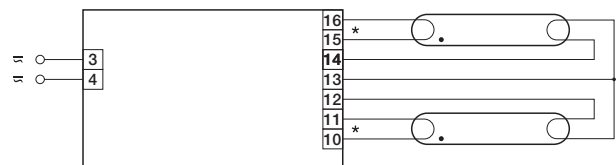
PC 2x39 T5 TOP Ip

PC 2x54 T5 TOP Ip



* leads 9, 10, 15, 16 max. 1.0 m (< 100 pF)
leads 11, 12, 13, 14 max. 2.0 m (< 200 pF)
Protection class I – luminaires: earth of ballast housing required (according to IEC 598)
Protection class II – luminaires: no earth required

PC 3x... T5 TOP Ip

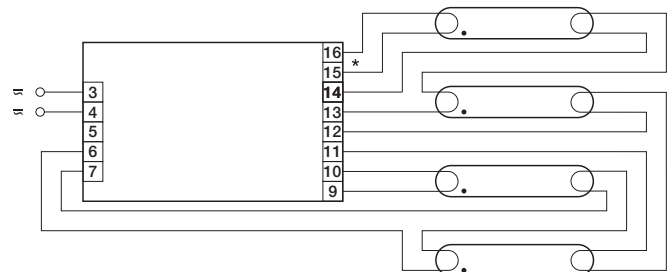


* leads 15, 16 max. 1.0 m (< 100 pF)
leads 10, 11, 12, 13, 14 max. 2.0 m (< 200 pF)
Protection class I – luminaires: earth of ballast housing required (according to IEC 598)
Protection class II – luminaires: no earth required

PC 2x14-28 T5 TOP Ip

PC 2x35 T5 TOP Ip

PC 2x49 T5 TOP Ip



* leads 9, 10, 15, 16 max. 1.0 m (< 100 pF)
leads 6, 7, 11, 12, 13, 14 max. 2.0 m (< 200 pF)
Protection class I – luminaires: earth of ballast housing required (according to IEC 598)
Protection class II – luminaires: no earth required

PC 4x... T5 TOP Ip