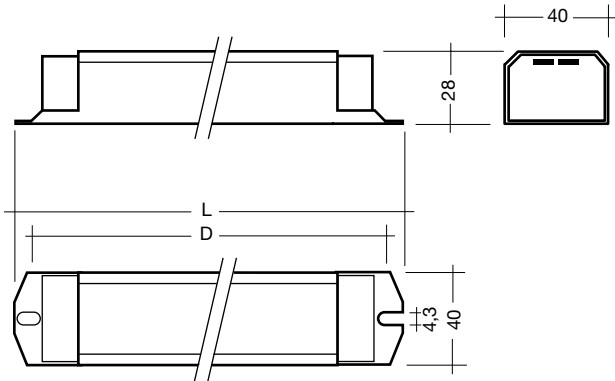


Electronic ballasts  
Linear lamps T8, 26 mm

PC T8 PRO sc 18–58 W 220–240 V 50/60/0 Hz, non dimmable



- Defined warm start within 1.5 s
- Constant light output from 198–254 V supply voltage
- AC operation 198–254 V
- DC operation 154–250 V (lamp start 200–250 V)
- Power factor > 0.95
- Overvoltage protection 320 V AC, for 1 hour
- Operating frequency  $\geq 42$  kHz
- Wide temperature range from -25 °C to +60 °C
- Energy classification EEI = A3

- ENEC approved, CE marked
- Use in emergency lighting according to VDE 0108 possible
- Safe switch off of defective lamps
- Automatic end of lamp life shut off
- Automatic re-start after lamp change
- For luminaires with  $\nabla$  or  $\nabla$  and  $\nabla$   $\nabla$  marks according to EN 60598, VDE 0710 and VDE 0711
- Temperature protection  $\nabla$  acc. to EN 61347-1-C.5e

**Approvals:**

- EN 61347-2-3 (EN 60928)
- EN 60929
- EN 61347-2-7 (EN 60924)
- EN 60925
- EN 61000-3-2
- EN 61547
- EN 55015
- acc. VDE 0108

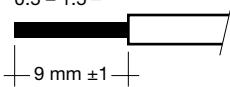
Lamp		Ballast												
watt- age W	type	type	article number	length mm	fixing centres D mm	weight kg	lamp power W	circuit power W	current at 50 Hz		$\lambda$ at 50 Hz		tc point °C	temperature range °C
									220 V A	240 V A	220 V	240 V		
1x18	T8	PC 1/18 T8 PRO sc 220–240V 50/60/0Hz	89899818	154	140	0.176	15.0	18.4	0.090	0.085	0.95	0.95	75	-25 → +60
1x36	T8	PC 1/36 T8 PRO sc 220–240V 50/60/0Hz	89899819	154	140	0.181	31.6	37.0	0.170	0.150	0.95	0.95	80	-25 → +60
1x58	T8	PC 1/58 T8 PRO sc 220–240V 50/60/0Hz	89899820	154	140	0.184	49.0	55.7	0.260	0.240	0.97	0.97	85	-25 → +60

**Installation instructions**

**Wiring type and cross section**

The wiring can be in flexible cable with ferrules or solid with a cross section of 0.5–1.5 mm<sup>2</sup>. Strip 9 mm of insulation from the cables to ensure perfect operation of the screw terminals.

wire preparation:  
 0.5 – 1.5 □



**RFI**

TridonicAtco 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
- Mains leads should be kept apart from lamp leads (ideally 5–10 cm distance)
- Do not lead mains leads too closely along the electronic ballast
- Twist the lamp leads
- Keep the distance of lamp leads from the metal work as large as possible
- Mount electronic ballast on earthed metal surface
- Mains wiring to be twisted when through wiring
- Keep the mains leads inside the luminaire as short as possible

**AC operation**

Mains voltage:  
 220–240 V 50/60 Hz (+6% / -10%)

**DC operation**

200–240 V 0 Hz  
 200–250 V 0 Hz certain lamp start  
 154–250 V 0 Hz operating range

**Emergency lighting**

Use in emergency lighting installations according to VDE 0108 or for emergency luminaires according to EN 61347-2-3 appendix J.

BLF > 0.95

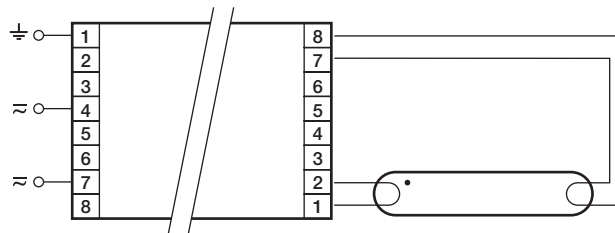
**Wiring advice**

The lead length is dependent on the capacitance of the cable.

Ballast Type	Terminal		Maximum capacitance allowed	
	Cold	Hot	Cold	Hot
PC 1/18 T8 PRO sc	7, 8	1, 2	200 pF	100 pF
PC 1/36 T8 PRO sc	7, 8	1, 2	200 pF	100 pF
PC 1/58 T8 PRO sc	7, 8	1, 2	200 pF	100 pF

With standard solid wire 0.5/0.75 mm<sup>2</sup> the capacitance of the lead is approx. 80 pF/m. This value is influenced by the way the wiring is made.

In borderline cases the capacitance must be measured inside the luminaire. Keep lamp wires short. Lamp connection should be made with symmetrical wiring. Hot leads (1, 2) and cold leads (7, 8) should be separated as much as possible.



Circuit diagram PC T8 PRO sc

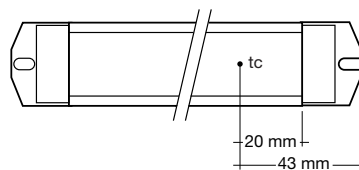
**Harmonic distortion in the mains supply**

Ballast Type	THD	3	5	7	9
PC 1/18 T8 PRO sc	18.9	17.3	4.3	3.1	2.2
PC 1/36 T8 PRO sc	11.2	10.1	3.4	2.3	1.8
PC 1/58 T8 PRO sc	11.2	10.6	2.8	2.0	1.4

Typical value expressed as a percentage at 230 V 50 Hz

**Temperature range**

from -25 °C to +60 °C



**Packing quantities**

20 pieces/carton  
 50 cartons/pallet  
 1000 pieces/pallet