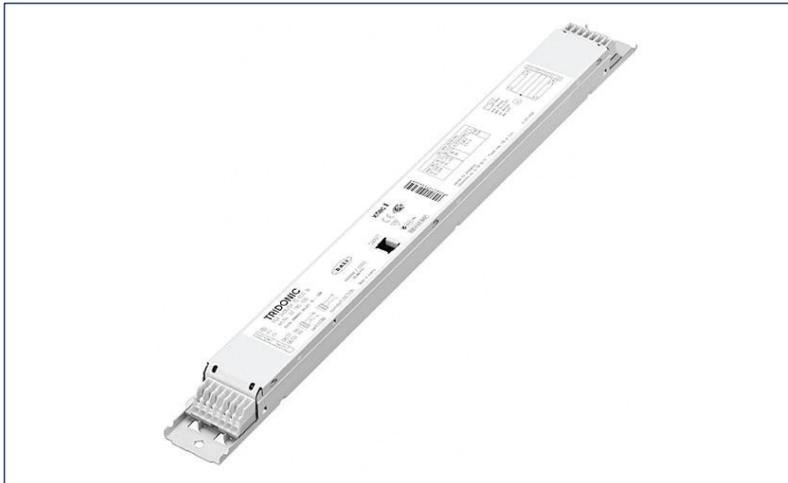## PCA T5 ECO lp x!tec II, 14 – 80 W
ECO T5

The PCA ECO series supports all the usual digital communication standards in the highest quality. It combines performance with ecological and economic benefits.Dimmable luminaires are the most responsible way to reduce costs. They always provide the optimum amount of light, appropriate to the presence or absence of people and the amount of available daylight. Energy savings of up to 80 percent can be made.

Product description
_ Processor-controlled ballast with x!tec II inside
_ Highest possible energy class CELMA EEI = A1 BAT [1]
_ Noise-free precise control via DALI or DSI signal, switchDIM or corridorFUNCTION
_ Nominal life-time up to 100,000 h (at ta 50 °C with a failure rate ≤ 0. 2 % per 1,000 h)
_ Multilamp management
_ OEM-specific reserved memory areas
_ 5-year guarantee

Interfaces
_ DALI
_ DSI
_ switchDIM (with memory function + selectable dimming rate)
_ corridorFUNCTION (3 preprogrammed profiles)
_ Integrated SMART interface for function with SMART Sensor 5D 19f and corridorFUNCTION plugs
_ SMART interface for SMART plug cF – for setting the corridorFUNCTION profiles
_ SMART interface for SMART sensor with daylight control

Functions
_ Intelligent Temperature Guard (overtemperature protection)
_ Intelligent Voltage Guard (overvoltage indication and undervoltage shutdown)
_ Optimum filament heating in any dimmer setting
_ Disconnection of filament heating from a dimming level of approx. 90 % for maximum energy efficiency (SMART-Heating concept)
_ corridorFUNCTION with ambient light control
_ Automatically triggered emergency lighting value in DC mode, 15 %
_ For emergency lighting systems as per EN 50172
_ Automatic start after replacement of defective lamps
_ Automatic shutdown if the lamp is faulty

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

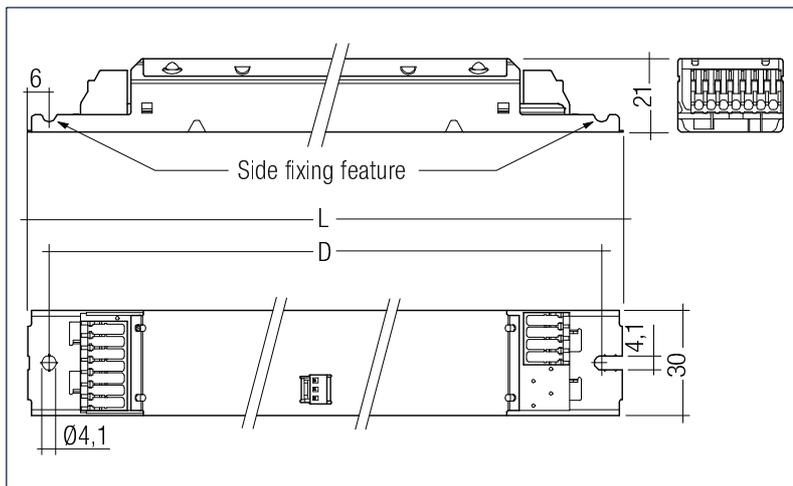### Website
http://www.tridonic.com/22185099

PCA T5 ECO lp xitec II, 14 – 80 W

ECO T5

The complete data sheet for this product is available in the Downloads section.

Ordering data

Type	Article number	Packaging, carton	Packaging, pallet	Weight per pc.
For luminaires with 1 lamp				
PCA 1x28/54 T5 ECO lp Xitec II	22185099	10 pc(s).	760 pc(s).	0.240 kg

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
Typ. power input on stand-by	< 0.2 W
Protective hot restart	0.5 s for AC / 0.2 s for DC
Dimming range	1 – 100 %
Lamp start possible from	1 %
Operating frequency	~ 40 – 130 kHz
Type of protection	IP20

Approval marks

EL EMC EHI C CE RoHS

Standards

EN 55015, EN 60929, EN 61000-3-2, EN 61347-2-3, EN 61547, Acc. to EN 50172 for emergency light installations, EN 50172, IEC 60929, IEC 61000-3-2, IEC 61347-2-3, IEC 61547, IEC 62386 (according to DALi standard V1)

Specific technical data

Lamp wattage	Lamp type	Type	Article number	Dimensions L x W x H	Hole spacing D	Lamp power [2]	Circuit power [2]	EEI	Current at 230 V, 50 Hz [2]	λ at 230 V, 50 Hz	tc point max.	Ambient temperature ta [3]
For luminaires with 1 lamp												
1 x 28 W	T5	PCA 1x28/54 T5 ECO lp Xitec II	22185099	360 x 30 x 21 mm	350 mm	28 W	30.5 W	A1 BAT	0.14 A	0.95	80 °C	-25 … +75 °C
1 x 54 W	T5	PCA 1x28/54 T5 ECO lp Xitec II	22185099	360 x 30 x 21 mm	350 mm	54 W	58.0 W	A1 BAT	0.26 A	0.98	80 °C	-25 … +70 °C

[2] Valid at 100 % dimming level.

[3] +10 °C to ta max: unrestricted dimming. -25 °C to +10 °C: unrestricted dimming from 100 % to 30 %. -25 °C to +10 °C, dimming below 30 %: malfunction possible but no damage to ECG. This applies to AC and DC operation.