

PCA TC ECO xitec II, 11 – 57 W

ECO compact

**Product description**

- _ Processor-controlled ballast with xitec 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 of 0.2 % per 1,000 h)
- _ 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

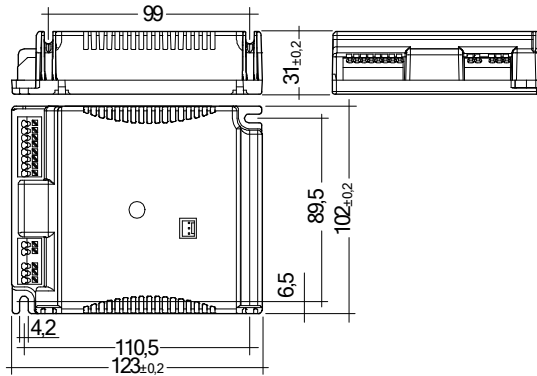
<http://www.tridonic.com/22185258>



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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 2 lamps				
PCA 2x18/24 TCL ECO c Xitec II	22185258	10 pc(s).	500 pc(s).	0.203 kg

Technical data

Mains voltage range	220 – 240 V
AC voltage range	198 – 264 V
DC voltage range	176 – 280 V (lamp start \geq 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	3 – 100 %
Lamp start possible from	3 %
Operating frequency	~ 40 – 130 kHz
Type of protection	IP20

Approval marks



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	Lamp power ^②	Circuit power ^②	EEL	Current at 230 V, 50 Hz	λ at 230 V, 50 Hz	t _c point max.	Ambient temperatur e t _a
For luminaires with 2 lamps											
2 x 18 W	TC-F	PCA 2x18/24 TCL ECO c Xitec II	22185258	123 x 102 x 31 mm	15.0 W	37.0 W	A1 BAT	0.15 A	0.96	75 °C	-25 ... +60 °C
2 x 24 W	TC-F	PCA 2x18/24 TCL ECO c Xitec II	22185258	123 x 102 x 31 mm	20.0 W	48.0 W	A1 BAT	0.21 A	0.98	75 °C	-25 ... +60 °C
2 x 18 W	TC-L	PCA 2x18/24 TCL ECO c Xitec II	22185258	123 x 102 x 31 mm	16.0 W	37.0 W	A1 BAT	0.16 A	0.97	75 °C	-25 ... +60 °C
2 x 24 W	TC-L	PCA 2x18/24 TCL ECO c Xitec II	22185258	123 x 102 x 31 mm	22.0 W	48.0 W	A1 BAT	0.22 A	0.98	75 °C	-25 ... +60 °C

② Valid at 100 % dimming level.

③ +10 °C to t_a 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.