

PCA T5 EXCEL one4all Ip xitec, 3x14/24 W and 4x14/24 W

EXCEL T5



Product description

- _ Processor-controlled ballast with xitec inside
- _ Highest possible energy class CELMA EEI = A1 BAT ^①
- _ Noise-free precise control via DALI or DSI signal, switchDIM or corridorFUNCTION
- _ Multilamp management
- _ OEM-specific reserved memory areas
- _ Extended DALI commands
- _ 5-year guarantee

Interfaces

- _ DALI
- _ DSI
- _ switchDIM (with memory function + selectable dimming rate)
- _ corridorFUNCTION (individually programmable)

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)
- _ Fade rates between 50 ms and 90 s (min. – max.)
- _ Automatically triggered emergency lighting value in DC mode, can be set between 1 and 100 %
- _ For emergency lighting systems as per EN 50172
- _ Automatic start after replacement of defective lamps
- _ Automatic shutdown if the lamp is faulty
- _ Dimming possible in DC mode
- _ Backwards compatible

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

Website

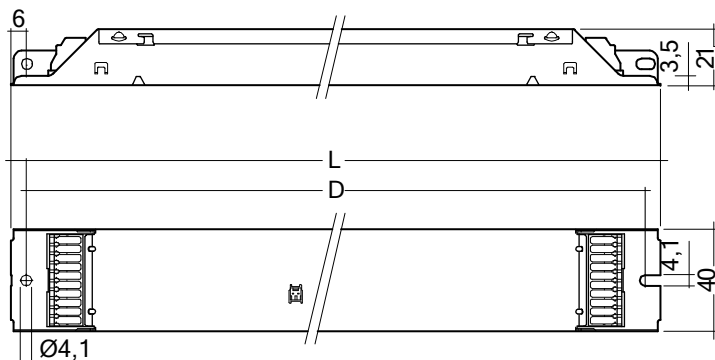
<http://www.tridonic.com/22176210>



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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 4 lamps				
PCA 4x14/24 T5 EXCEL one4all Ip Xitec	22176210	20 pc(s).	600 pc(s).	0.340 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	< 0.5 W
Protective hot restart	0.5 s for AC / 0.2 s for DC
Dimming range, 3 lamps	5 – 100 %
Dimming range, 4 lamps	1 – 100 %
Lamp start possible from	5 % (3 lamps), 1 % (4 lamps)
Operating frequency	~ 40 – 100 kHz
Type of protection	IP20

Approval marks



Standards

EN 55015, EN 60929, EN 61000-3-2, EN 61347-2-3, EN 61547, 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	EEL	Current at 230 V, 50 Hz ^③	λ at 230 V, 50 Hz	tc point max.	Ambient temperature t _a
For luminaires with 4 lamps												
4 x 14 W	T16 (T5)	PCA 4x14/24 T5 EXCEL one4all Ip Xitec	22176210	360 x 40 x 21 mm	350 mm	56 W	60.5 W	A1 BAT	0.27 A	0.97	75 °C	-25 ... +60 °C
4 x 24 W	T16 (T5)	PCA 4x14/24 T5 EXCEL one4all Ip Xitec	22176210	360 x 40 x 21 mm	350 mm	96 W	97.5 W	A1 BAT	0.43 A	0.97	75 °C	-25 ... +50 °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.