

## PCA EXCEL one4all Ip for T5 (16mm) fluorescent lamps

- Digital dimmable ballast for T5 fluorescent lamps with one4all interface, controlable with digital DALI- or DSI-signals or manually controlable via standard push to make switches without any need of luminaire rewiring.
  - Automatic detection of the connected control signal.
  - Integrated SMART interface for ambient light regulated applications
  - Polarity free digital Interface
  - Single addressability in DALI mode
  - Manual control (switchDIM) via standard push to make switches. Dimming speed adjustable.
  - Memory function for the last operation mode in case of mains failures. E.g. standby mode
  - Programmed warm start within 0,5 seconds without any light flash
  - Flicker free dimming operation light level independent and through the complete temperature range
  - Optimised dimming speeds for dynamic RGB colour applications through intelligent filament heating and regulation (10x/s from 1% to 100% in either direction)
  - Adjustable DC-emergency light level between 70% and 1% (optimised power consumption for centralised battery systems)
  - Intelligent Voltage Guard to protect the ballast against miss wiring (over voltage indication and under voltage protection (safe shut down))
  - Powerless switching through the digital interface (no switching via mains necessary)
  - ON/OFF and dimming commands can be given through the same control wires
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- Status feedback (lamp- and ballast-status)
  - Internal storage of up to 16 light presets, 16 group assignments and one individual address
  - Individual adjustable fade times for scene changes and manual dimming.
  - At the maximum allowed temperature a nominal life time of 50.000h with a nominal failure rate of 0,2% per 1000h can be expected
  - Logarithmic dimming curve that is optimised according to the sensitivity to the eye
  - Safe shutdown of defective lamps (e.g. rectifying effect)
  - Automatic restart after lamp replacement
  - CELMA energy classification EEI=A1
  - Constant light output independent of fluctuating supply voltage
  - Suitable for emergency applications according to VDE 0108
  - Low profile ballast cross section 21x30mm
  - Approvals:  
ENEC 11, CE, EEI=A1  
(EN 55015, EN 55022, EN 60929, EN 61000-3-2,  
EN 61347-2-3, EN 61547, installations according to VDE 0108)
  - Product designation:  
PCA x/yy T5 EXCEL one4all Ip  
x...number of lamps  
yy...lamp power