

# Product Information TURBiO

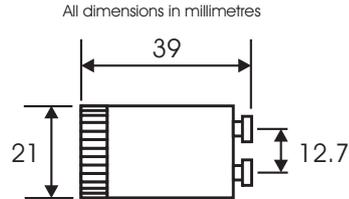
## Electronic starter for fast starting of 4-65W single inductive fluorescent lamp circuits.

The TURBiO electronic starter uses a DC pre-heat system to quickly heat the lamp cathodes to working temperature, before applying a controlled voltage pulse to successfully strike lamps in extremely low ambient temperatures. This method of ignition prevents cathode damage and significantly lengthens lamp life. Additionally, a safety monitoring system shuts down the system in the event of a fault and prevents dangerous overheating and the annoying flashing associated with glow type starters. Refined circuit methods allow us to provide a 10 year no quibble guarantee for this product, which has a proven design life exceeding 20 years.

Housed in a two-pin canister with dimensions to IEC155, for the direct replacement of glow starters without circuit modification.

### Dimensions & materials :

Canister:	Polycarbonate, translucent red
Printing:	Gold
Base:	Polycarbonate
Pins:	Nickel plated brass



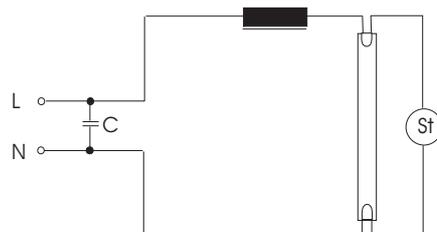
### Technical Data :

Operating voltage :	200 - 250 V AC 50/60 Hz
Preheat time :	0.4 seconds nominal @ 20°C
Pulse height :	1500 V maximum
Safety shutdown :	Within 1.0 seconds @ 20°C
Lamp types :	4-65W Linear T5/T8/T12 10-38W 2D (TC-DD) 5-11W PLS (TC) 10-26W PLC (TC-D) 18-36W PLL (TC-L) 20-60W Circular- and U-Tube (T-R, T-U) -find more details and actual lamp list under <a href="http://www.palmstep.com">www.palmstep.com</a>
Temperature range :	Operating : - 5 to + 100°C* Storage : - 50 to + 105°C*

### Approvals:



**IMPORTANT NOTE :** Due to the boosted pre-heating mode, for lamps larger than 30W rating, with some types of luminaire, ballast "buzz" during starting may be annoying. Use ÖKO6 if this is the case. Lamps of 30 W or smaller do not normally exhibit starting noise.



Inductive Circuit

**\*To avoid that the Electrolyte-capacitors in our starters dry out the storage time should not exceed 4 months. Furthermore we recommend a regular switch on/off of the starters, as very low switching cycles (less than once per day) may cause malfunction or total fail out.**

**The guarantee of 10 years refers to operation of the starter in ambient temperature of +40°C and respecting the above mentioned instructions.**