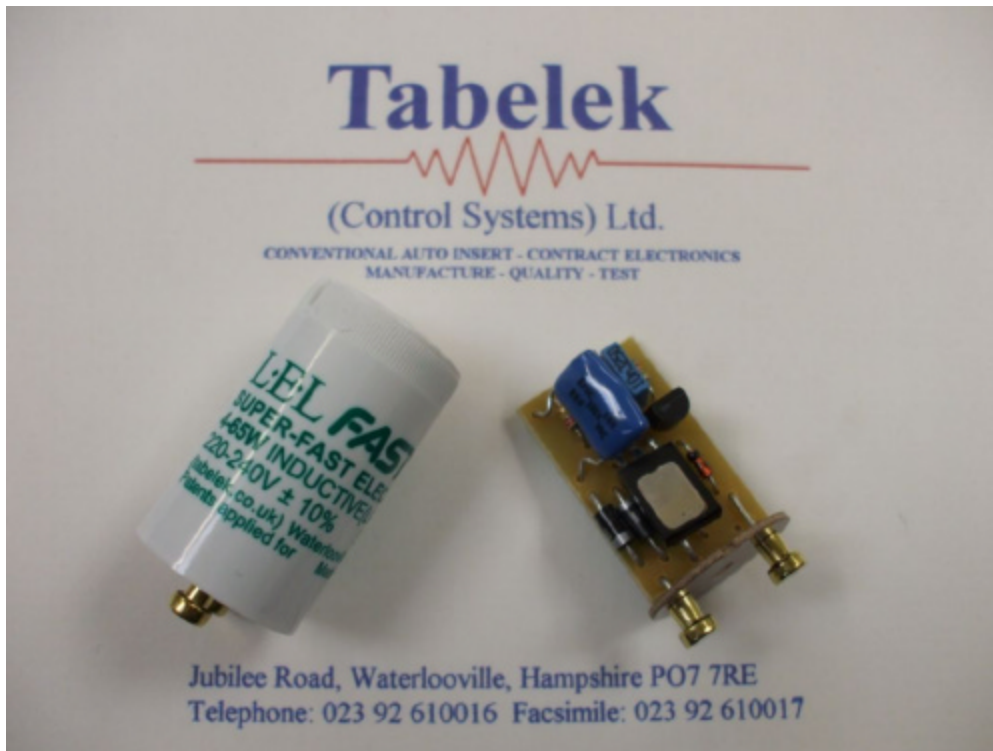


# Fastlux 300C Electronic Starter for Fluorescent Lamps



- ▶ Instant light from extra fast starting.
- ▶ Reliable starting at low operating temperatures and supply voltages.
- ▶ Covers a wide range of lamps from the smallest (4W) to 65W linear and 5-38W CFL's.
- ▶ Reduced cathode wear gives much longer lamp life.
- ▶ Automatic failed lamp cut-off.
- ▶ Uniquely suitable for maintained emergency lighting.

The novel LEL starter design produces timed heating followed by high energy, high voltage ignition to give very reliable starting even under conditions of low temperatures.

The soft start of Fastlux 300C gives greatly reduced cathode wear and end blackening and therefore significantly enhances lamp life. There is an automatic failed tube cut-off which avoids continuous flashing and ballast overheating.

The Fastlux 300C is particularly appropriate for frequently switched lighting such as in domestic use or in energy managed schemes. In these situations lamp life can be increased by as much as 3 or 4 times.

## Data and Specifications

The Fastlux 300C is a super-fast plug-in electronic starter. With this starter, under normal conditions, the light output from the lamp is fully established within 0.3 seconds. As well as providing instant light, the Fastlux 300C reduces wear-out of the lamp cathodes during starting to less than one tenth of that to which they are subjected during a glow switch start. It also provides automatic shut-down if a lamp does not start in a given period thus avoiding annoying flashing and ballast overheating which often occur with conventional glow switch starters.

The very fast starting is made possible by enhanced heating current controlled by a dual start sequence. After 0.3 seconds of cathode heating as a high current level, high voltage pulses are applied. Under normal conditions the lamp can then strike and run. To cater for adverse conditions such as low temperature or low supply voltage, a second phase of extended heating and pulsing continues the start process for a further 0.6 seconds if necessary.

The initial plus the extended start phases together are designed to provide a start under extremely abnormal conditions. If the lamp is faulty and cannot function the starter automatically shuts down after a maximum of 1.2 seconds.

The Fastlux 300C contains no electrolytic capacitors and has a wide temperature operating range with a very long life. The auto-resetting built into the starter will always give immediate re-strike in the event of a mains supply break, however short the break may be. As the failed lamp cut-off level is voltage dependent, the Fastlux 300C can be specified for use in maintained emergency lighting where it can be relied upon to restart the lamp after restoration of the power supply following a "brown-out" or partial interruption.


The Fastlux 300C is housed in a conventional starter canister and has an operating life of 20 years. It can be either retrofitted into existing fluorescent lighting installations of factory fitted into new luminaires.

SPECIFICATIONS	FASTLUX 300C
Lamp Types	4W to 65W Linear (T5, T8, T12), 5W to 38W Compacts (2L, PL, 2D)
Fast Start Time	0.3 seconds nominal
Extended Start Time	Further 0.5 seconds minimum
Supply	220-240V nominal +/-10%, 50-60Hz
Pulse Voltage	1.3kV - 1.5kV minimum
Reset Time	Zero (normal operation)
Shut-down Time (failed lamp)	1.2 secs maximum
Temperature Operating Ranges	Starter and Lamp -10% supply voltage 4-38W, -40°C to +90°C. 40-65W, -20°C to +90°C
Ballast Types	Standard, Lagging only. Also suitable for some low-loss types.
Canister	Standard switch-start canister type as defined in BS 3772/IEC 155
Standards	Performance to IEC 927 - BS EN 60927 General and Safety to IEC 926 - BS EN 60926, certified by BSI Testing

All Products  
CE marked

**FASTLUX**<sup>™</sup>  
Electronic Fluorescent Starters  
Made in Great Britain

All Products  
CE marked

**Tabelek**  
  
(Control Systems) Ltd.

**L·E·L**  
Lighting Electronics Limited

Made and supplied by  
Tabelek Control Systems  
Jubilee Road  
Waterlooville, Hants, PO7 7RE  
02392 610016