

The DTE310 is a 3 channel energy management controller with a maximum load per channel of 10A. It has a trailing edge output, making it suitable for use with most types of dimmable electronic transformers. The DTE310 can operate from a three phase or single phase supply, and is especially suited for controlling track mounted fixtures on three circuit track. Using a three phase supply when the DTE310 is connected to three circuit track allows the track to be loaded to it's maximum rating. Philips Dynamalite's superior voltage regulation and soft start technologies protect lamps, dramatically extending their life. Multi-purpose programmable dry contact and analogue inputs are provided for interfacing to other systems such as AV controllers. The device also incorporates a Programmable Logic Controller that can process comprehensive conditional and sequential logic and macro functions.

technical data >>>



**Supply**

230V ±14% 50/60Hz Single Phase at 30A or 230V ±14% 50/60Hz 3-Phase  $\Delta$  at 10A

**Outputs**

3 x dimmed outputs (trailing edge phase control) at 10A each

**Protection**

3 x 10A 6kA single pole thermal magnetic circuit breakers  
Internal inductive load detection  
Over voltage / current detection

**Regulating Devices**

Dual MOSFET's - 47A, 650V, 141A surge

**Power Conditioning**

- Regulated outputs
- Over voltage protection
- Surge protection
- Brownout/Sag protection
- Spike protection
- Soft start
- 16 bit Fader resolution (65536 steps)

**Cooling System**

Naturally ventilated, no forced cooling, no maintenance

**Control IO**

1 x RS485 DyNet/DMX512 serial port  
1 x AUX programmable dry contact input  
8 x multi-purpose programmable dry contact/0-5V/0-10V DC analogue inputs

**User Controls**

Service Over-ride switch - All channels to 100%  
Diagnostic LED  
Hardware bypass switch for each channel

**Internal Controls**

Programmable Logic Controller

**DyNet DC Supply**

12V @ 200mA (supply for approx. 10 panels)

**Preset Scenes**

170

**Diagnostic Functions**

Device Online/Offline status

**Supply Terminals**

L1, L2, L3, N.  
1 x 16mm<sup>2</sup> max conductor size

**Output Terminals**

L, N, for each channel  
1 x 16mm<sup>2</sup> max conductor size

Earth link bar provided

**Dry Contact Terminal**

1 x 1mm<sup>2</sup> max conductor size

**Operating Environment**

0° to 40°C ambient temperature  
0% to 95% RH non condensing

**Compliance**

CE, C-Tick

**Construction**

Alloy/Steel wall mount case with epoxy finish

**Dimensions**

H 450mm x W 225mm x D 75mm  
(excludes wall brackets)

**Weight**

Packed weight 6kg

load compatibility >>>

Trailing edge electronic transformers  
Incandescent lamps

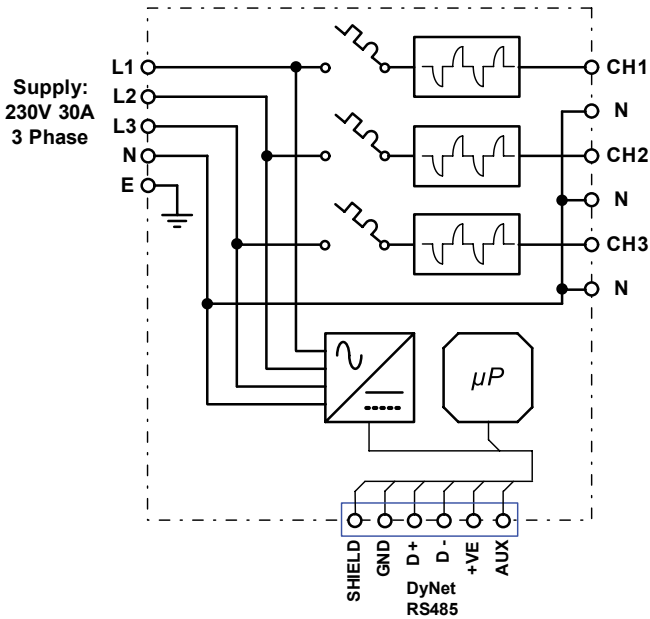
Leading edge electronic transformers  
Track lighting

options >>>

Earth leakage and overload protection on each channel - **RCBO**

Second RS485 DyNet/DMX512 port -**A**  
Three Pole isolators -**3Pole**

electrical diagram )))



mounting dimensions )))

