

### TDS13644

### Universal FET Power Dimmer 1000VA (4x250VA)



The TDS13644 is a four channel AUTOBUS FET power dimmer for 230V/50Hz dimming of traditional-, LED- and other dimmable lights. The dimmer can also control lights and LED's which are connected via traditional and electronic transformers. Therefore, the dimmer can be configured to work in Leading or Trailing edge mode.

The TELETASK FET dimmer unit is also available in a two-channel (higher power) version with order ref TDS13642.

#### APPLICATION

Four channel 250VA universal power FET dimmer for dimmable 230V/50Hz lights.

#### CHARACTERISTICS

##### Customization

Full software (= local and remote) configuration via PROSOFT includes settings for: mode (Leading or Trailing), dim curve and ramp speed setting (separated fade-in and fade-out).

The ramp speed setting can be configured on each individual (AUTOBUS) control button.

Several more settings are available by default via PROSOFT: Minimum dim level, last dim level memory, go to level x, moods, timers, timed moods, group dimming via dimmable mood, etc. ...

##### Integrated PLC signal filter

The TDS13644 has an integrated filter to suppress interference from PLC/TF signals.

#### SETTINGS

##### Configuration

Via PROSOFT Suite (3.6.19.15 or higher).

##### AUTOBUS address

Via two rotary switches "Tens" & "Units".

##### Jumper

Terminating resistor (supplied with the central unit). To be used when the interface is at the physical end of the AUTOBUS cable.

#### INSTALLATION

##### DIN-rail mounting


6 modules wide.

##### Protection

Built-in: 4 x replaceable miniature fuse 2A for short circuit protection and 4 x electro-mechanical thermal overload protectors. The AUTOBUS is internal galvanic isolated from the output circuits.

Spare fuses: order ref. TDS90162 – pack of 10 ultra mini fuses 2A.

##### Important installation remarks

- !  Due to the risk of electrical shocks (230V), this product must be installed by a certified electrical contractor.
- ! Cut off the power supply (230V) when replacing the fuses
- ! Must be placed inside a protected electrical cabinet to avoid the risk of an electrical shock.
- ! Follow the safety standards from the local authorities to be compliant with all regulations.
- ! It is recommended for large installation to make a load test (limited overload will result in the activation of the internal heat protection)

#### CONNECTIONS

##### AUTOBUS

AUTOBUS connector set + patch cable (supplied with the interface).

12V via AUTOBUS (should be minimum 9V). This Voltage can always be checked in PROSOFT diagnostics.

##### 230V power supply inputs

Power supply (L+N): nominal voltage 230V AC +/-15%.

Screw terminals; max. 4mm<sup>2</sup> (AWG 12) solid wire or 2,5mm<sup>2</sup> (AWG 14) stranded wire.

Must be externally protected with max. 10A MCB.

##### Dimmer outputs

Max. eight (8) LED lamps per channel.

4x250VA max. 230V/50Hz @ 40°C; Maximum total dimmed power 1000VA @ 40°C (see also derating curve below); If only LED lights connected: Maximum total 800 VA.

Min. load per channel: 5 VA.

Screw terminals; max. 4mm<sup>2</sup> (AWG 12) solid wire or 2,5mm<sup>2</sup> (AWG 14) stranded wire.

##### Derating curve for maximum load

See schematic drawing.

##### Transformers (iron core)

Only a transformer intended for use with a phase cut dimmer is to be used.

#### POWER CONSUMPTION

##### AUTOBUS

Max. 25mA (18mA standby) @ 12V

#### DIMENSIONS

108 W x 90 H x 60 D (mm)

#### NET | GROSS WEIGHT

0,215 kg | 0,315 kg

#### PACKAGING CONTENT:

TDS13644 interface

AUTOBUS connector set + terminating resistor

AUTOBUS Patch cable for a fast installation.

#### STORAGE

##### Temperature

-20°C to +65°C

##### Relative humidity

15% to 85%

#### IP PROTECTION RATE

IP20

**OPERATING RANGE**

**Temperature**  
0°C to +50°C max.

**Relative humidity**

5% to 85% at 25°C (non-condensing ambient)

**SCHEMATIC DRAWING**

