

TriDim 500

The DIN-rail mounted TriDim is a three-channel transistor dimmer. It can operate in one of two modes: leading edge or trailing edge. All channels operate in their own selected mode, with each channel capable of controlling 2.2 A.

It supports capacitive and resistive loads, and it can be connected directly to mains-voltage lamps and to low-voltage lamps with electronic transformers. The TriDim is not for use with inductive loads.

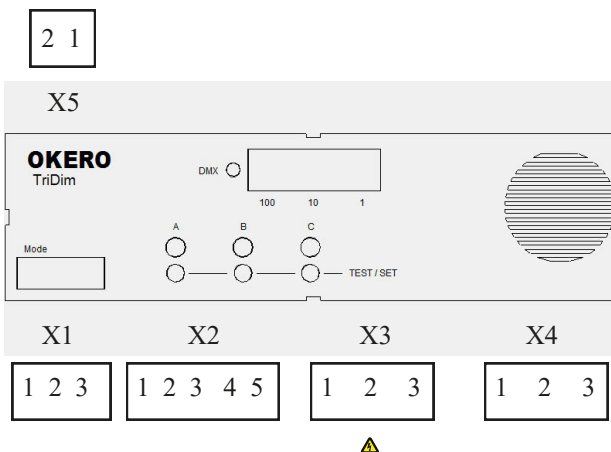
Each channel of the dimmer has both current and thermal protection.



Key Features

- Trailing-edge or leading-edge dimming
- push buttons for manual test and set, BCD selectors for DMX adress and dipswitch for individual mode set.
- Capable of handling resistive and capacitive loads
- Manual wired override input
- Voltage and frequency compensation
- Overcurrent and temperature protection included
- Power-on to last level or to user-defined level

Connections



DMX In
 X1:1 = DMX -
 X1:2 = DMX +
 X1:3 = GND

Analog In
 X2:1 = GND
 X2:2 = Chanel 1
 X2:3 = Chanel 2
 X3:4 = Chanel 3
 X2:5 = +10V potentiometer
 • Pushdim do not activate with phase voltage only potentialfree closing switch

Feed 230VAC
 X3:1 = PE
 X3:2 = N
 X3:3 = Line

Dimmer out
 X4:1 = Chanel 1
 X4:2 = Chanel 2
 X4:3 = Chanel 3

Feed external 12VDC
 X5:1 = V-
 X5:2 = V+

Technical Data

Connections

Mains:

Solid core: up to 4 mm² Stranded:
2.5 mm²

DMX:

0.22 mm² – 1.5 mm² low-loss
RS485 type (multistranded, twisted
and shielded)

External PDU

12V PDU included

Power

Mains supply:

220 VAC – 240 VAC
50 Hz

Power consumption: 2.3 W (excluding loads)

Load current: 2.2 A (2.2 A × 230 V = 500 W)
3 outputs (3 × 500 W = 1.5 kW)

Heat dissipation: 10 W with maximum load (resistive)

External protection: 10 A Type C MCB maximum.
The external supply must be
protected.

Inputs

Communication: DMX, 0-10V, Switchdim

Override: Test/set button

Mechanical data

Dimensions: 160 mm × 91 mm × 62 mm

Housing: DIN-rail case; 9 module width

Material: Polycarbonate/ABS mix, UL94 V-0

Mounting: DIN rail (installation in switchgear/
controlgear cabinet)

Weight: 300 g

IP code: 30 (IP 00 at terminals)

Operating conditions

Ambient temperature: 0 °C to +35 °C

Relative humidity: Max. 90 %, noncondensing

Storage temperature: -10 °C to +70 °C

Conformity and standards

DMX:

DMX512-A protocol
(max. refresh rate: 44 Hz)

EMC emission:

EN55015

EMC immunity:

EN61547

Safety:

EN61347-2-11

Environment:

Complies with WEEE and RoHS
directives.

Dimensions (mm)

