

OKERO SID dimmers are designed for permanent installation in theaters, TV studios, multi-purpose venues and for marine use on cruise ships. SID is a versatile dimming system that meets high standards for quality and reliability. It is easy to install and very service friendly.

OKERO SID (Standard Installation Dimmer) comes in two versions: **Triac** and **Transistor**

The SID dimmers are controlled by DMX 512. In parallel they can also be equipped with OLC functionality which means that they can be built as a complete lighting control with various control signals and control panels, programmed with lighting cue memory that can be stored in the dimmer and then called up via a keypad.

The dimmer cabinets are very easy to fit in since they are only 220 mm deep and can be installed against a wall. All connections and service is made from the front.

The SID system is very service friendly. The dimmer blocks are easily accessible and need not be removed for servicing. The fuse box is mounted under a separate hatch in the front and is fitted with automatic fuses.

The SID system is a very flexible dimming system that is built around dimmer blocks of 12\*13 A, 6\*13 A, 3\*25 A and can be supplied in versions from 6 to 96 circuits per cabinet.



## About the OKERO SID dimmer system

OKERO SID dimmer system is intended for permanent installation and demanding applications. It is built around a dimmer block of 6 \* 13A and is an installation and service friendly dimming system with high reliability.

## Ease of installation

The dimmer cabinets are designed for easy installation. They are designed to be placed against a wall. All assembly is done from the front. The upper part of the cabinets are equipped with ample space for connecting the power feed and the controlled circuits. Also available for connection from below with raised flooring (optional). The dimmer cabinets are normally delivered for copper cable power feed, but can also be delivered for power feed via aluminum cables (optional).

## Control via DMX

The dimmers are controlled via the DMX 512 standard digital protocol. In the event of DMX signal failure, the latest value remains until the DMX signal becomes active again. The control electronics will work so long as at least one of the three phases is active.

## Memory function as option

As an option, the SID dimmers can be equipped with OKERO OLC functionality, which means that the dimmer system is equipped with memory where lighting cues can be stored in the dimmer and then be called up on a keypad (see separate OLC details).

## Circuit Breakers

The OKERO SID dimmers are fitted with circuit breakers with a breaking capacity of 10 kA.

## RCD

The dimmer cabinets can be equipped with residual-current circuit breakers for each circuit, or sectioned circuit breakers.

## Main switch

The dimmer cabinets are intended for connection to external power distribution central fitted with a main switch. On request, however, the cabinets are equipped with main switch up to 100A and with MCC-breaker over 100A.



## Interference suppression

The dimmer cabinets are equipped with an interference filter with a rise time of 250  $\mu$ S (400  $\mu$ S as option).

## 10A cross connection (optional)

SID system can be supplied with a power patch (optional). The output side consists of modules, each with 12 dual Schuko socket that is connected to a dimmer system or unregulated power supply. Modules of 6 dual Schuko sockets can also be offered. The input side is made up of modules equipped with either 48 or 24 power inputs (IEC320) connected to terminals for connection to the installation load side. The cross connection system can also be delivered with 13A or 16A.

## Load Types

- The SID dimmer **Triac** system is designed to control resistive (incandescent and halogen lamps) and inductive loads.
- The SID dimmer **Transistor** is designed to control resistive (incandescent and halogen lamps) and resistive, capacity loads.

## Electricity supply

The OKERO SID dimmer system is designed for a supply voltage of 230/400 V +/- 10% (Delta 230)

## Mechanics

The SID dimmers are built in a solid 1.5 mm steel cabinet with a durable gray finish (RAL 7035). The cabinets have a depth of only 220 mm, which makes them very easy to place in a crowded dimmer room. They meet KEMA, De Norske Veritas and UL requirements for electrical cabinets.

## Load

The OKERO standard installation dimmers are designed for continuous load of up to 65% of the cabinets rated power (may be limited by the power supply). 100% continuous load on request.

## Operating Environment

Ambient temperature should not exceed 30° C. Humidity should be between 30% and 90%, noncondensing. Dimmer cabinets are equipped with thermostat controlled fan system.

## Option for installation with moving lights

In order to supply equipment that require access to unregulated power, the dimmer cabinets can be fitted with switches at each output circuit for the provision of the following functions:

- The circuit connected to dimmer
- The circuit switched off
- The circuit provides 230V unregulated power



## Control electronics CPU 2000

Triggering unit for OKERO dimmer cabinet for permanent installation. It has dual DMX inputs for advanced signal processing. All outputs can be individually set to any of the fixed dimmer curves as well as user-defined curves. PC software and voltage compensation can be delivered as an option.

### Specifications:

- Power supply 3 phase 400 VAC, 48..52Hz alt 230V DELTA
- Built-in symmetrical power supply
- Max. number of Outputs 96
- Dimmer Curve: Individually selectable per output. 6 preset and 10 user-defined
- DMX protocol USITT DMX 512 1990
- DMX address DMX A via BCD, DMX B via the PC software (DMX Patch)
- Function:DMX output values are frozen at failure
- For each DMX input: DMX A / B priority, DMX Merge is selectable
- Connections: 2\*RJ45 for DMX IN/THRU A/B. For connection of OKERO CAB breakout/OMB breakout
- 96-channel trigger outputs for dimmer modules
- One RJ45 in the front for programming
- An input for external alarm source (Fire)
- All connections are pluggable for easy replacement.
- Status DMX OK, LED
- Phase indication L1, L2, L3 with LEDs
- Optional PC software CAB setup for direct control and configuration of parameters
- Due to leakage current, the minimum power is about 25W on the SID Triac
- Power loss approx. 5%
- Ambient temp: Maximum 35 °C
- Mechanics: Metal housing, IP20
- Dimensions (W\*H\*D) 315\*66\*163 mm
- Weight 2.5 kg

