

## DA-02-OUT2-230V

### General

The DA-02-OUT2-230V is a module with specially designed casing and technical data for the direct light installation. With the relay and/or analogue outputs 2 light circles can be switched and /or dimmed. Additionally an automatic emergency operation function is integrated.

During interruption of the bus or the operating voltage or when disturbances on the BUS the load relays are closed automatically and the analog voltage interface are interrupted. Thus it is ensured that the EVG



heads for its shining means with 100% of the rated output, if a disturbance in the system should arise.

The module is equipped with two microcontrollers and can therefore execute even very complex master commands independently. This increases the data throughput on the BUS and reduces the amount of system programming required by the user.

### The following functions can be performed independently by the DA module:

- Calculation of rise times from 0.5 seconds to 18 hours
- Independent switch from current ACTUAL analogue values to specified TARGET analogue values with a specified speed (optional in specified time)
- "Analogue value reached" feedback signal after time functions have been performed
- Stop function whilst time functions are being performed
- OVERSAMPLING error correction (the DA module independently corrects the analogue values skipped by the BUS system cycle times using "OVERSAMPLING". The analogue values between the BUS cycles are transformed back into the 8 bit resolution by means of linearisation, thus preventing, for example, flickering when controlling dimmers. In programming OVERSAMPLING is called a SOFT function).
- Performs flash functions
- Adjustment to different illuminants and dimmers

### Inputs / Outputs

- 2 relay outputs 230V/8A
- 2 analog outputs 0-10V (1-10V)

### Function displays

- 1 red LED indicates the operating voltage
- 1 yellow flashing LED signalise the communication with the master via subnet

### Connections

- 2 connections for the subnet (BUS A and B, RS-485)
- 2 connections for the operating voltage (Ub, 0V)
- 2 analog outputs
- 2 relay outputs

## Design

- steel casing for light installation

## Special function DIP switch 1

- reserve

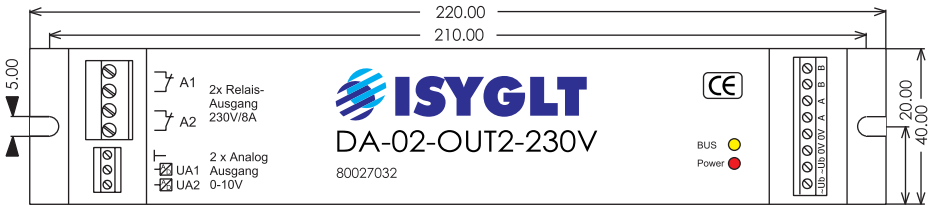
## Technical data

<b>Type</b>	<b>DA-02-OUT2-230V</b>
Art. Nr.	80027032
Operating voltage	12V to 35V DC or 12V to 27V AC
Current consumption	max. 150mA at 35V, and full load of the outputs max. 250mA at 12V, and full load of the outputs
Output voltage	2 analog channels 8Bit resolution 0-10V
Output current	10mA each channel or 20mA if only 1 channel is used operation as current source or current drain
Relay output	2 outputs 230V / 8A non-inductive 8A bulbs 8A Fluorescent lamp uncompensated 6A Fluorescent lamp compensated 4A LV-Halogen via transformer 8A 1 phase motor 0,55kW Electronic ballast's manufacturer-specific! Starting current 100A <20ms !!The starting current of electronic ballasts is up to 100 times the nominal current!!
Insulation voltage	300V (subnet / analog output)
Subnet (RS-485)	max. 5,6V limited by Z-diodes
Dimensions	LxBxH, 220x40x28mm
Weight	200g
Connection	Screw terminals
Operating temperature	-10...+50°C
Storage temperature	-25...+70°C
Humidity	0 ...85 % r.F. non condensing
Protection class	IP20
ESD immunity	Category 3 according to IEC1000-4-2
EMV immunity	Use in typical industrial enviroment. Category 3 according to IEC-1000-4-4 (Test was carried out within a whole system)
CE sign	yes

Terminal assignment

≅ Ub	Operating voltage
0V	Operating voltage
A	Subnet (BUS A, RS-485)
B	Subnet (BUS B, RS-485)
GND	Reference potential
	(masse) for analog outputs
UA1	Analog output channel 1
UA2	Analog output channel 2
A1	Relay output channel 1
C1	Relay output channel 1
A2	Relay output channel 2
C2	Relay output channel 2

View



Wiring diagram

