ISYGLT®

DA-03D-OUT3-230V

General

DA-03D-OUT3-230V was designed for controlling of dimmed fluorescent lamps with EVG 1-10V. Three analogue outputs 1-10V are available which can be loaded with 40mA each. At each analogue output a relay switch output (loadable 230V 1500VA) is available. These relay outputs are laid out for high inrush currents by using Triac advance and will be activated automatically depending on the analogue values.

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

• Calculation of rise times from 0.5 seconds to 12 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

• 3 analogue outputs 1-10V, sink current max. 40mA per channel
• 3 relay outputs 230V 1500VA (maximum 6,5A) hybrid technology with zerro cross detector

Function displays

• 1 red LED indicates the operating voltage
• 1 flashing yellow LED indicates communication with the master via the subnet
• 1 green LED indicates that the outputs has been regulated (LED flashes until the desired final value has been reached).
• 1 green LED indicates the emergency function

Connections

• 1 connection for power 230V 50/60Hz
• 1 connection for the subnet (BUS A and B, RS-485)
• 1 connection for the average - all to 100%
• 3 analogue outputs
• 3 relay outputs

Design

• Light grey plastic casing, can be snapped onto 35 mm DIN rail mounting 6 separating units

Special function DIP switch 1
• Change-over for bus protocol

Parameterisation
The ISYGLT ProgrammDesigner offers various parameterisation options.
• Min-max values and dimming curves
• Speed interpretation, Oversampling and feedback
• Digital outputs, Derivative time, Switching on Threshold and release delay
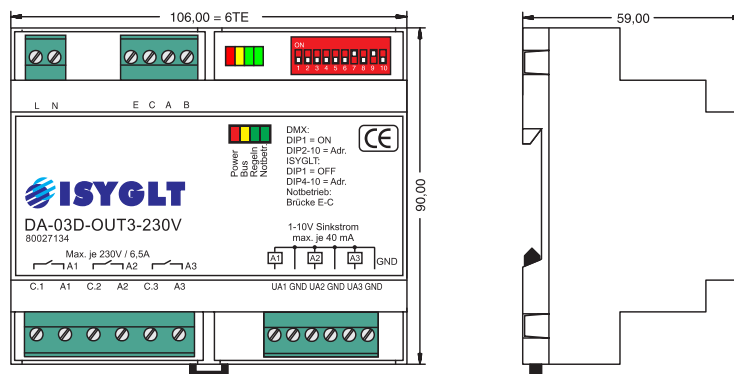• Emergency mode definition
• Dimming curve setting

Technical data

Type	DA-03D-OUT3-230V
Art. No.	80027134
Operating voltage	230V AC, 50/60Hz
Operating voltage BUS	12V to 27V DC
Current consumption BUS	10mA at 24V
Output voltage	3 analog channels 8 bit resolution 1-10V
Output current	40mA each channel operation as current sink
Relay output	3 separate outputs 230V (maximum 6,5A) hybrid technology, zerro cross
Insulation voltage	500V (subnet / analog outputs)
Subnet (RS-485)	max. 5,6V limited by Z-diodes
Dimensions	LxWxD, 106x90x59mm = 6TE
Weight	280g
Connections	Screw terminals pluggable
Operating temperature	-10...+50°C
Storage temperature	-25...+70°C
Humidity	0 ...85 % r.F. non condensing
Protection class	at not embedded condition IP30
Immunity	Conform EN61000-6-1, EN61000-6-2
Transmitted interferences	Conform EN55015
CE sign	Yes

Terminal assignment

L	L-230V	E	Average input
N	neutral (230V)	C	Average input
		A	Subnet (BUS A, RS-485)
		B	Subnet (BUS B, RS-485)
C.1	Common f. relay A1	UA1	Analogue output channel 1
A1	Output A1	GND	GND channel 1
C.2	Common f. relay A2	UA2	Analogue output channel 2
A2	Output A1	GND	GND channel 2
C.3	Common f. relay A3	UA2	Analogue output channel 3
A3	Output A1	GND	GND channel 3

View

Wiring diagram