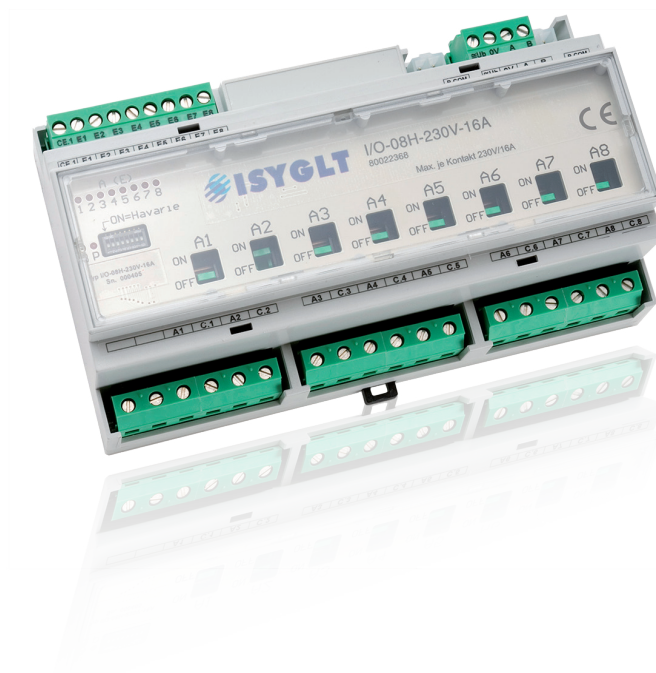


Technical Data / Instruction Manual

I/O-08H-230V-16A

Article no. 80022368

8-way Switching Actuator



Directory of Content

1. Notes on documentation

1.1. Retention of documents

1.2. Symbols used

2. Safety instructions

2.1. Intended usage

2.2. Predictable mishandling

2.3. Safe handling

2.4. Qualification of staff

2.5. Changes to the product

2.6. Use of spare parts and additional equipment

2.7. Liability notes

3. Warranty

4. Declaration of Conformity

5. Service address

6. Maintenance / Care / Disposal

7. Storage

8. Assembly

9. Product description

10. Technical Data

10.1. Pin assignment

11. Wiring diagram

1. Notes on documentation

These instructions are intended for qualified personnel who are familiar with the assembly, installation and operation of the ISYGLT system. It is essential that you read these operating instructions through before commissioning and keep them accessible for further use.

SEEBACHER cannot accept any liability for damage or malfunctions resulting from failure to observe these instructions.

1.1. Retention of documents

These instructions and all other applicable documents are part of the product. They must be handed over to the device operator. The operator will store the documents so that they can be made available if necessary.

1.2. Symbols used

Observe the following safety and other instructions in the manual:



Handling instruction

The hand indicates that you should carry out an act.



Danger!

Immediate danger to life!



Attention!

General notes, useful information and special features

2. Safety instructions



Observe the following general safety instructions when installing and commissioning the device:

Assembly and installation of the ISYGLT module may only be carried out by a qualified electrician. Other activities in connection with the ISYGLT module, such as assembly and installation of system components with tested standard plug connections, as well as operation and configuration of the ISYGLT module may only be carried out by trained staff.

Observe the electrical installation regulations of the country in which the device is installed and operated as well as its national accident prevention regulations. In addition, observe internal company regulations (work, operating and safety regulations).



Before working on the ISYGLT module system, it must be disconnected from the power supply and secured against being switched on again. After completion of the assembly, installation and maintenance work, an electrical check must be carried out! Check all protective conductor connections and the voltages at all connection plugs as well as at each individual module slot.

2.1. Intended usage

The module is exclusively suitable for regulation (control) in connection with ISYGLT system components. Any other use is not intended. The limit values stated in the technical data must not be exceeded under any circumstances. This applies in particular to the permissible ambient temperature range and the permissible IP protection type. For applications with a higher required IP protection type, the ISYGLT module must be installed in a housing or a cabinet with a higher IP protection type.

2.2. Predictable mishandling

The module must not be used in the following cases in particular:

- explosive area

When operating in explosive areas, sparking can lead to deflagration, fire or explosions.

2.3. Safe handling

This module corresponds to the state of the art and the recognised safety regulations. Each device is tested for function and safety before delivery.

Only operate this module in perfect condition in accordance with the operating instructions, the applicable regulations and directives of the country in which the device is installed and operated, and the applicable safety and accident prevention regulations.

The module is designed for cabinet installation on a 35mm DIN rail according to EN 60715 in corresponding standard housings. Extreme environmental conditions impair the function of the product.

- Protect module from shocks
- Use module indoors only
- Protect module from humidity

In addition to these safety instructions, you must also observe the special safety instructions listed in the individual chapters for the individual acts.

2.4. Qualification of staff

Assembly, commissioning, operation, maintenance, decommissioning and disposal may only be carried out by qualified staff. Work on electrical parts may only be carried out by a trained electrician in accordance with the applicable regulations and directives. Other activities in connection with the ISYGLT module, such as assembly and installation of system components with tested standard plug connections, as well as operation and configuration of the ISYGLT module may only be carried out by trained staff.

2.5. Changes to the product

Unauthorized modifications to the ISYGLT module which are not described in this or the other applicable instructions can lead to malfunctions and are prohibited for safety reasons.

2.6. Use of spare parts and additional equipment

The module may be damaged if unsuitable spare parts and additional equipment are used. Only use original spare parts and additional equipment from the manufacturer.

2.7. Liability notes

SEEBACHER accepts no liability or warranty whatsoever for damage and consequential damage caused by non-compliance with the technical regulations, instructions and recommendations. SEEBACHER shall not be liable for any costs or damage incurred by the user or third parties as a result of the use of this equipment, in particular improper use of the equipment, misuse or malfunction of the connection, malfunction of the equipment or connected devices.

SEEBACHER accepts no liability for printing errors.

3. Warranty



We provide warranty within the framework of the statutory provisions. These are limited to the intended use of the module and refer to the repair or replacement of the ISYGLT module. Please send the device with an attached error description to our company address given below.

4. Declaration of Conformity



The valid declaration of conformity for the module can be requested from us free of charge by stating type and article no. as follows:

By phone: +49(0)8041/77776
By fax: +49(0)8041/77772
By mail: info@seebacher.de

5. Service address

Seebacher GmbH

Marktstrasse 57
83646 Bad Tölz
GERMANY

Phone: +49 (0) 80 41 / 77 77 6
Fax: +49 (0) 80 41 / 77 77 2

www.seebacher.de
info@seebacher.de

6. Maintenance / Care / Disposal



The product is maintenance-free. It is sufficient from time to time to remove any dust deposits. This may only be done in a power-free state.

Disposal (European Union)

Do not dispose of product in household waste! Products with this symbol



must be disposed of according to the EU directive WEEE 2012/19/ EU on waste electrical and electronic equipment at the local collection points for waste electrical and electronic equipment!

7. Storage



The product must be stored in a dry place, protected from dirt and mechanical stress. After damp or dirty storage, the product may only be operated after a condition check by an authorised electrician.

8. Assembly



(Only by certified electrician!)

Mount the product only when it is in a power-free state!

Switch off the power supply, check that there is no voltage, secure against being switched on again!

The device may only be operated at voltages according to the technical data and loaded with the currents defined therein. Only use suitable equipment (system modules).

Check that there are no loose parts in the product. If this is the case and the presence of such parts is not explicitly described, do not install or commission the product.

Only use suitable cables and fixing screws.

Assembly site

- The product can be installed in any position in a casing to be determined by the electrician (distribution box, switch cabinet). Observe maximum ambient temperature!

Assembly steps

(Read completely before assembly!)

- Mount the device in a suitable casing.
- Make the electrical connections according to the wiring diagram.
- Configure the DIP switches according to your requirements.
- Only after a complete connection and a visual test by a qualified electrician, the system may be put under voltage.

9. Product description

The I/O module I/O-08H-230V-16A has been designed for applications where manual intervention is necessary, or where the status of the relays must be kept in the event of a BUS or voltage failure. 8 circuits with a maximum of 230V/16A can be switched. As inputs 8 optocoupler inputs 12-48V on a common reference potential are

available. All inputs and outputs can be parameterized in the module for various functions and are freely programmable in the functions via the ISYGLT ProgramDesigner software. To protect the module from dust and unwanted operation, it is closed with a transparent cover. A screwdriver is required for manual operation.

- The output relays can also be switched manually without programming (commissioning, service, maintenance...)
- The relay position is maintained even if the supply voltage is interrupted.
- Each individual output of the emergency module can be parameterized for the operating modes BUS operation, BUS failure, emergency operation (DIP1 ON).
- The feedback LEDs can indicate the status of the inputs or the outputs.
- Due to the extensive parameter setting options, the module can also be used as a stand-alone module.

Inputs / Outputs

- 8 relay outputs 230V/16A with manual actuation lever
- 8 optocoupler inputs 12-48V

Function displays

- 1 red LED indicates the operating voltage
- 1 flashing yellow LED indicates the communication with the master via subnet
- 8 green LEDs can be parameterized to indicate the last output states (standard), the BUS outputs or inputs

Connections

- 1 connection for the subnet (BUS A and B, RS-485)
- 1 connection for the operating voltage (Ub, 0V)
- 8 outputs
- 8 inputs (on a common reference terminal)
- 2 P-COM connections (subnet and operating voltage)

Design

- DIN rail mounted plastic housing light grey, snap-on on 35mm DIN rail, 9 HP

Special function DIP switch 1 = Emergency operation

- Switch „OFF“ = BUS operation
- Switch „ON“ = Emergency operation

Parameterization

The ISYGLT ProgramDesigner offers a wide range of parameterization options:

- Definition of the functions in the operating modes: BUS operation, BUS failure, emergency operation
- Function assignment per output
- Synchronization conditions per output
- Definition of the 8 LEDs for feedback of outputs or inputs

10. Technical data

Type designation	I/O-08H-230V-16A
Article no.	80022368
Operating voltage	16-35V DC or 16-27V AC
Current consumption	200mA at 24V DC
Inputs	12-48V AC/DC, input current each input 5mA at 24V
Minimum load of the contact	500mW, min. 10V, min. 5mA
Outputs	Relay contact: - max. switching voltage 440V AC - max. switching current 20A >> (terminal max. 16A !) - mechanical lifetime 1.000.000 switching cycles Load capacity: - pure ohmic 16A - bulbs 3500W (max. 30.000 switching cycles) - fluorescent lamps uncompensated 3500W (max. 30.000 switching cycles) - fluorescent lamps compensated 2500W/200uF (max. 30.000 switching cycles) - HV-halogen 3500W (max. 30.000 switching cycles) - LV-halogen via transformer 2000VA (max. 30.000 switching cycles) - ECGs manufacturer dependent! Inrush current 100A < 20ms !! The inrush current of electronic ballasts (ECGs) is up to 100 times the nominal current !!
Subnet (RS-485)	max. 5.6V limited by Z-diodes
Dimensions	WxHxD 159x90x59mm DIN rail mounting (9 HP)
Weight	530g
Connection	screw terminals 2.5mm ² , inputs and BUS pluggable
Operating temperature	-10°C to +50°C
Storage temperature	-25°C to +70°C
Humidity	0...85% r. h. non condensing
Protection class	in not installed state IP30
CE mark	yes

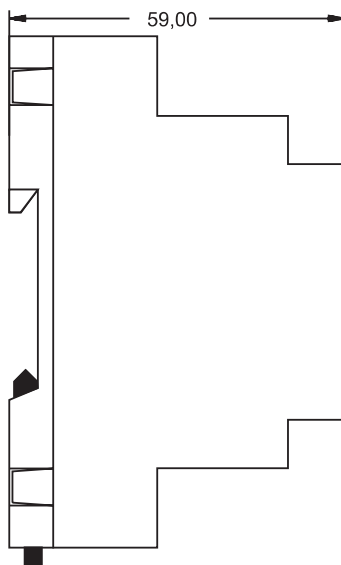
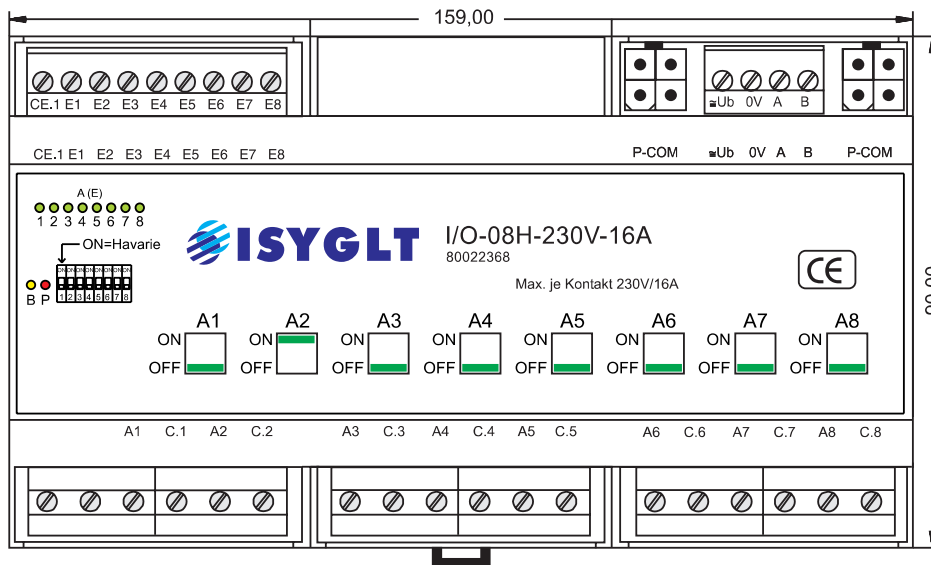
10.1. Pin assignment

A1	Output 1
C.1	Common for A1
A2	Output 2
C.2	Common for A2
A3	Output 3
C.3	Common for A3
A4	Output 4
C.4	Common for A4
A5	Output 5
C.5	Common for A5
A6	Output 6
C.6	Common for A6
A7	Output 7
C.7	Common for A7
A8	Output 8
C.8	Common for A8

CE.1	Common for E1-E8
E1	Input 1
E2	Input 2
E3	Input 3
E4	Input 4
E5	Input 5
E6	Input 6
E7	Input 7
E8	Input 8

≡ Ub	Operating voltage
0V	Operating voltage
A	Subnet (BUS A, RS-485)
B	Subnet (BUS B, RS-485)

View



11. Wiring diagram

