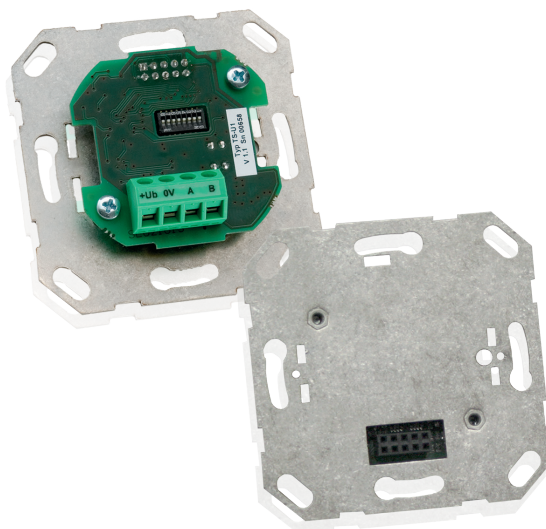


## Technical Data / Instruction Manual

### TS-U1

Article no. 80023210

Universal Button Interface for button sensor attachments



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## 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 an operating unit for coupling to the subnet for the input and output of commands. 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 intended for mounting in a device box according to DIN 49073. 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 (device box). 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.
- The connection of 230V signals or other external voltages to the inputs is not permitted!
- Only after a complete connection and a visual test by a qualified electrician, the system may be put under voltage.

## 9. Product description

The TS-U1 push-button interface is used to couple application modules or push-button sensors to the ISYGLT BUS. With the coupler, the LevySidus push-button attachments, for example, can be operated in the ISYGLT BUS with their full range of functions without any problems. We can also supply you with LevySidus push-button sensors. If you need couplers for push-button sensors from other manufacturers, please send us a separate enquiry.

### Inputs / Outputs

- 2-8 inputs (push-buttons)
- 2-8 outputs (LED, red, green integrated in push-button attachment)

### Function displays

- 1 yellow LED
  - indicates the operating voltage by permanent lighting up
  - indicates by flashing evenly the communication with the master via subnet
  - indicates by fast flashing that no parameters are stored in the TS-U1

### Connections

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

### Design

- Printed circuit board on mounting plate for standard flush-mounted box.  
Special designs such as adapters for Swiss boxes are available on enquiry.

### Special function DIP switch 1

- Reserve
  - Switch must be set to „OFF“

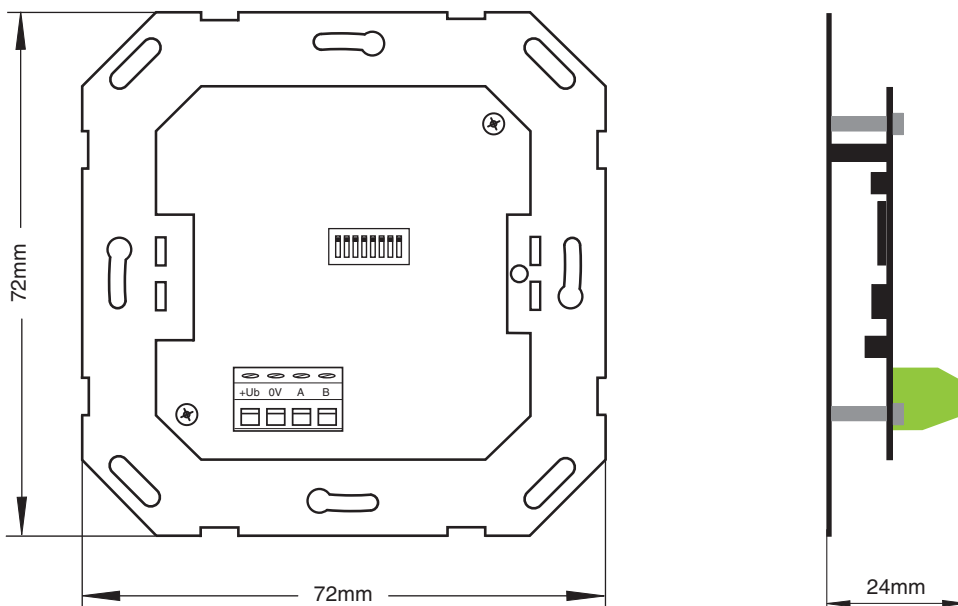
## 10. Technical data

<b>Type designation</b>	<b>TS-U1</b>
Article no.	80023210
Operating voltage	12V-35V DC, 12V-27V AC
Current consumption	25mA at 24V (5 LEDs on)
Subnet (RS-485)	max. 5.6V limitation by Z-diodes
Dimensions	LxWxH 72x72x24mm
Weight	approx. 55g with mounting plate
Connection	Screw terminals 2.5mm <sup>2</sup> for BUS
Operating temperature	-10°C to +50°C
Storage temperature	-25°C to +70°C
Humidity	0-85 % r.h. non-condensing
Protection class	IP00
CE mark	Yes

### 10.1. Pin assignment

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

### View



## 11. Wiring diagram

