

Doc. No. 10000430005_01

Aluminium and Steel Systems

Technical Information

Operating Instructions
Push-button interface

en

en 00 Operating instructions

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1. Notes on this document

1.1. Target groups and qualifications

This document is intended for specialists, such as trained fitters and electricians. Before installing and commissioning, read through this document thoroughly and adhere to the specified sequence of the instructions. Schüco International KG shall not be liable for any damage which arises from a failure to adhere to these instructions.

Qualified personnel means employees who know how to assemble, install, commission, test and operate the product and who have the relevant qualifications, e.g. who have been trained and instructed in accordance with safety regulations on the maintenance and use of appropriate safety equipment and who have received training in First Aid.

Experts are people whose training and experience means that they have sufficient knowledge of power-operated windows, doors and gates and the corresponding electrical installations. They are familiar with the relevant accident prevention regulations, government "safety at work" regulations, guidelines and generally recognised technical regulations so that they are qualified to judge the occupational safety of power-operated windows, doors and gates and the corresponding electrical installations.

1.2. Handover of the document

After commissioning, hand over all the documentation pertaining to this product to the end customer. Make them aware of the safety instructions, to which they must pay particular attention.

1.3. Retention of the document

This document is a component of the product. Keep this document in an accessible place even after installation and commissioning, so that the information is always available.

2. SecuritySicherheit

2.1. About the safety instructions



KEY WORD

Type / source / consequence of the danger

Pictograms and key words advise of the type of danger and the level of danger:



General personal injury



Personal injury from electrocution



Damage to property

DANGER!		Imminent danger resulting in death or severe injuries.
WARNING!		Potential imminent danger which may lead to death or severe injuries.
CAUTION!		Potentially dangerous situation which may lead to minor injuries.
NOTE		Imminent danger of damage to property which may lead to damage to or destruction of the product or environment.
INFORMATION		Information Information, tips and advice

2.2. Laws, regulations and technical rules

During installation and operation, observe the international, national and local safety regulations, laws and guidelines.

Accepted practice as usually codified in standards, guidelines, specifications, and regulations laid down by recognised bodies must be followed.

This applies in particular to:

- DIN EN 60335-2-103 - Household and similar electrical appliances - Safety: Particular requirements for drives for gates, doors and windows
- VDE 100-600: Erection of low-voltage installations
- International and national regulations for the prevention of fire and accidents
- European and international standards, e.g. EN 60335-2-103 on the safety of electrical devices
- VDE guidelines and regulations, e.g. DIN VDE 0100, DIN VDE 0160, DIN VDE 0632
- EN 60730-2-11: Automatic electrical control units for domestic and similar use – Parts 2-11: Special requirements for energy regulators (IEC 60730-2-11:2006)

2.3. Proper use

The device is designed for fixed installations in dry rooms. It must be installed on a standardised profile track (DIN mounting rail, 35 mm) in the distributor or control cabinet.

Proper use also includes adhering to the installation and operating instructions. Any alternative use or a use beyond this remit is not in accordance with its purpose.

Incorrect use or unauthorised modification of the product may result in death or serious injury, or damage to the product and other material assets. Only original replacement parts may be used. The manufacturer / supplier shall not be liable for any damage resulting from infringement. The user alone bears the risk.

This device may be used by children aged 8 and over as well as by persons with reduced physical, sensory or mental capabilities or a lack of experience and knowledge provided that they are supervised or have been instructed in the safe use of the device and understand the resulting dangers. Children must not play with the device. Cleaning and user maintenance must not be carried out by children without supervision. Children should be supervised to ensure that they do not play with the device.

2.4. General safety instructions

Follow the safety instructions in this document so as not to endanger your own life or that of others and to ensure error-free operation.



DANGER!

Imminent danger resulting in death or severe injuries.

- ▶ Before any work on the product, all power packs must be disconnected and protected against anyone inadvertently switching them back on.
- ▶ Following each installation or alteration to the electrical system, carry out a test run to test all functions.
- ▶ When operating, note that Schüco windows and doors may open and close automatically when left unattended.

When planning, ensure that a risk analysis is conducted. This determines whether the installation of optional components is required. The manufacturer is responsible for retaining the risk analysis for at least 10 years.

For reasons of simplicity, this documentation does not contain every detail of all product types. The diagrams only show the essential components to illustrate the functions described. They do not claim to be complete and therefore installation on site must be modified according to prevailing conditions.

3. Contents of delivery, transportation and storage

3.1. Contents of delivery

Open all the packing units. Check that no components are missing and familiarise yourself with the components.

Included in delivery:

Art. No.	Description	
263 246	Push-button interface with mounting rail bus connector	<input type="checkbox"/>
	Operating Instructions – Push-button interface	<input type="checkbox"/>

3.2. Transportation and storage



NOTE

Damage to property

- ▶ Protect against impact.
- ▶ Store only in dry interior rooms.
- ▶ Protect the device against moisture and dirt.
- ▶ Maintain the transport and storage temperatures.

4. Product description

4.1. Set-up and operation

The push-button interface enables you to connect 16 buttons or 8 double rocker switches. For example, a control signal for heating can be placed on the available output.

The connections can be configured freely with functions and elements. Configuration is possible directly via the Automation Manager or the Automation Engineering Tool. Up to four push-button interfaces can be connected to one Automation Manager.



1	Plug-in connection terminals at the top
2	Plug-in connection terminals at the bottom
3	DIP switches 1-3
4	Status LED

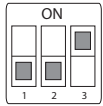
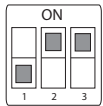
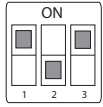
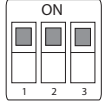
4.2. DIP switches

DIP switches 1 and 2

By using the DIP switches 1 and 2 it is possible to assign an address on the device bus to the push-button interface. The functions at the outputs Relay 1 and Relay 2 vary depending on the set device bus address.

DIP switch 3

DIP switch 3 is used to activate the terminating resistor on the cable ends. This is particularly essential for greater cable lengths and transfer rates. Set DIP switch 3 to ON for all push-button interfaces used.

Illustration	DIP switch position	Outputs function	Physical bus address
	00	2	Relay 1: all elements are closed and locked Relay 2: not all elements are closed and locked
	01	3	Relay 1: all elements are open Relay 2: protective function is active
	10	4	-
	11	5	-

4.3. Status LED

The push-button interface displays its operating status using its status LED:

Status LED remains on continuously	The device is operating and functioning correctly
Status LED flashes	The device is not functioning correctly, error message
Status LED not illuminated	No operating voltage

4.4. Technical data

Technical data	
Housing	Series installation housing, 3 module, for top hat rail, DIN EN 60175
Weight	113 g
Dimensions [mm]III	53.4 x 89 x 60 mm
Protection rating	IP 20 (installed in the distributor)
Status LED	To monitor and for error feedback
Ambient temperature	Operation: -10°C to +60°C
Transport/storage temperature	Transport/storage: -40°C to +85°C
Relative humidity	5% to 93% (non-condensing)
Power supply	DC 24 V
Current consumptionStatus LED	0.1 A
Safety class DIN EN 61140	III
Installation	Top hat rail installation on standardised profile track

5. Assembly and installation



WARNING!

Death or severe injury.

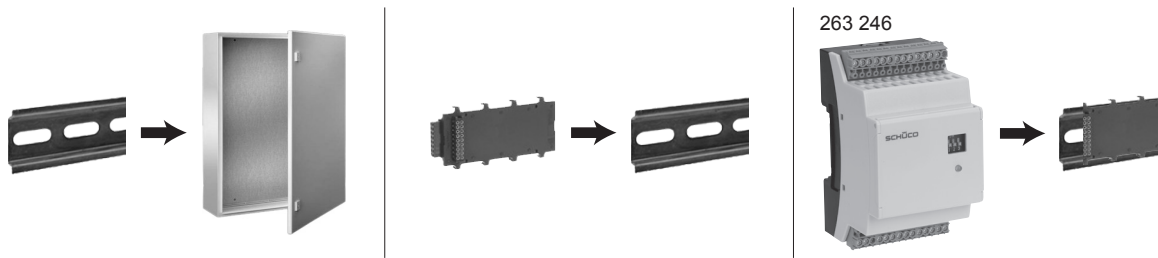
- ▶ All work on the product must only be carried out by qualified personnel.
- ▶ Before any work on the product, all power packs must be disconnected and protected against anyone inadvertently switching them back on.
- ▶ Following each installation or alteration to the electrical system, carry out a test run to test all functions.
- ▶ Only install in a suitable distributor or control cabinet.

5.1. Prerequisites for installation/assembly

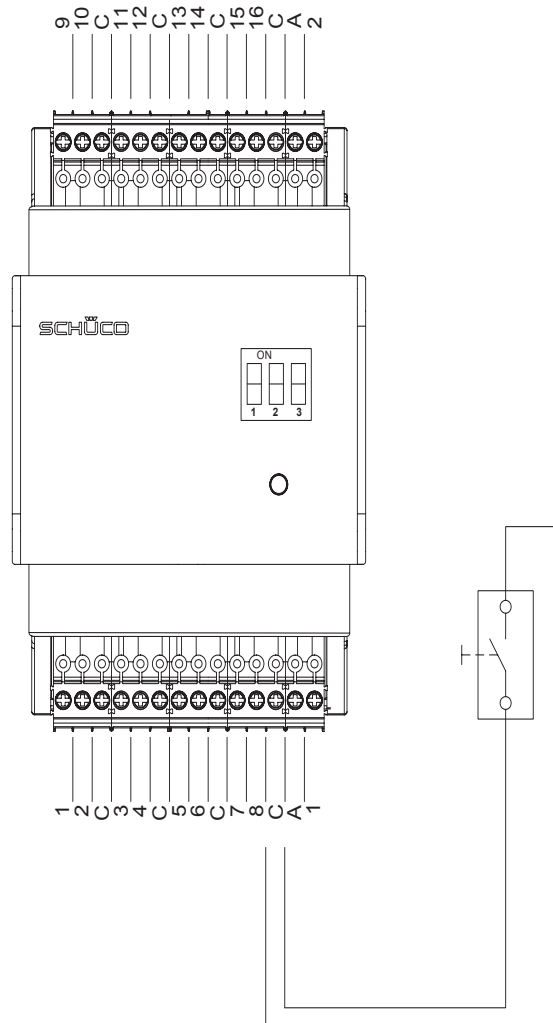
1. Only install the push-button interface vertically so that the terminals are at the top and bottom.
2. After installing the unit, cover the entire terminal area.
3. Each group control unit with a maximum of four connected push-button interfaces requires a separate 24 V DC power pack for the auxiliary power supply (e.g. article no. 263 097).

4. Lay the bus cables for the group control unit and the control cable for the momentary and maintained contact switches separately. When laying the cable ducts, the bus cables must be kept separate from the other cables.
5. Lay the bus cables and control cables at a distance from other cables supplying power.

5.2. Installation



5.3. Electrical connection



6. Decommissioning and disposal



The materials used can be recycled. Observe the environmental requirements with regard to recycling, re-use and disposal of operating materials and components in accordance with the local, country-specific and international current technical regulations and official regulations. Make a contribution towards protecting our environment and dispose of the device at a collection point.

7. Service and support

At Schüco, a high level of customer satisfaction is our priority. If you require further information or encounter problems not dealt with in detail in this document, you can request the requisite information from Mechatronic Technical Support.

You can reach your contact partners on the service phone numbers below:

Hotline - Metal systems

Please contact your local branch.

Hotline - Mechatronics

Tel.: +49 (0) 521 - 783 665

Fax: +49 (0) 521 - 783 836

E-mail: Support_Automation@schueco.com

en Original operating instructions or (and)
translation of original operating instructions

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