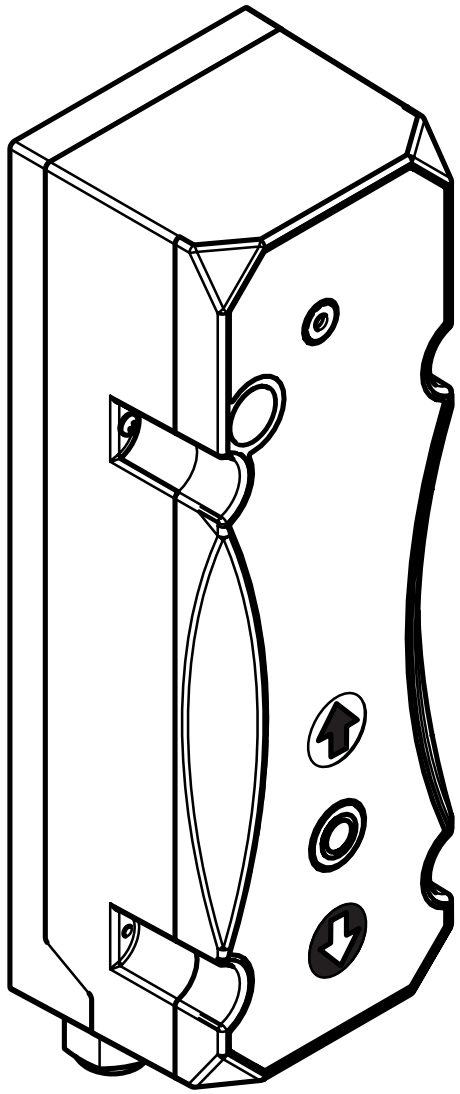
SOMMER



EN TRANSLATION OF THE ORIGINAL INSTALLATION AND OPERATING MANUAL

# Industrial gate control unit

# GIGAcontrol TA

Space for warranty label

SOMloq2

GIGAcontrol-TA_S11387-00001_072020_0-DRE_Rev-C_EN

**Information on the product:**
Serial No.: See the title page of the installation and operating manual (if applicable warranty label).

**Year of manufacture: from 03/2019**
**Information on the Installation and Operating Manual**
Version of the installation and operating manual:

GIGAcontrol-TA_S11387-00001_072020_0-DRE_Rev-C_EN

**Warranty**
The warranty complies with statutory requirements.
The contact person for warranties is the qualified dealer.
The warranty is only valid in the country in which the device was purchased. There is no warranty for consumables such as batteries, accumulators and safety products as well as light bulbs. This also applies for wear parts. The device is only designed for a limited frequency of use. More frequent use leads to increased wear.

**Contact data**
If you require after-sales service, spare parts or accessories, please contact your qualified specialist retailer or installer.

**Feedback on this Installation and Operating Manual**
We have tried to make the Installation and Operating Manual as easy as possible to follow. If you have any suggestions as to how we could improve it or if you think more information is needed, please send your suggestions to us:

**+49 (0) 7021 8001-403**

**doku@sommer.eu**

**Service**

If you require service, please contact us on our service hotline (fee required) or see our web site:

**+49 (0) 900 1800-150**

(0.14 euros/minute from land line telephones in Germany, mobile prices may vary)

**www.sommer.eu/de/kundendienst.html**

# Table of contents


**1. About this Installation and Operating Manual 5**
1.1 Storage and circulation of the Installation and Operating Manual 5
1.2 Important for translations 5
1.3 Description of the product type 5
1.4 Target groups of the Installation and Operating Manual 5
1.5 Explanation of warning symbols and notes 5
1.6 Special warnings, hazard symbols and mandatory signs 6
1.7 Special warnings, hazard symbols and mandatory signs 6
1.8 Information regarding the depiction of text 7
1.9 Intended use of the control unit 8
1.10 Improper use of the control unit 8
1.11 Qualifications of personnel 8
1.12 For the user 9

**2. General safety instructions 10**
2.1 Basic safety instructions for operation 10
2.2 Further useful information 11
2.3 Additional safety information for the handheld transmitter 11
2.4 Additional useful information relating to the handheld transmitter 11

**3. Description of function and product 12**
3.1 Function of the control unit 12
3.2 Safety equipment 12
3.3 Product designation 13
3.4 Scope of delivery 14
3.5 Dimensions 15
3.6 Technical data 15
3.7 Gate types, operator types and accessories 16

**4. Tools and protective equipment 17**
4.1 Required tools and personal protective equipment 17

**5. Declaration of Conformity 18**

**6. Installation 19**
6.1 Important information on installation 19
6.2 Preparation for installation 21

**7. Electrical installation 23**
7.1 Warning and safety information on electrical installation 23
7.2 Overview 24
7.3 Connection options 25
7.4 Connection between GIGAsedo+ or GIGAroll+ and GIGAcontrol TA 26
7.5 Connecting accessories 26

**8. Initial operation 27**
8.1 Detecting the motor direction and setting the end positions 27
8.2 Subsequent end position correction 28
8.3 DIP switches 29

**9. Reset and factory settings 31**
9.1 Reset via the Reset button 31
9.2 Reset via triplex sensing device on the control unit housing 31

**10. Radio 32**
10.1 Radio 32
10.2 Programming the transmitter 32
10.3 Cancelling programming mode 32
10.4 Deleting a transmitter button from the radio channel 32
10.5 Deleting transmitter completely from the receiver 33
10.6 Deleting a radio channel in the receiver 33
10.7 Deleting all radio channels in the receiver 33
10.8 Programming a second handheld transmitter by radio (HFL) 34
10.9 Information on Memo 34

**11. Troubleshooting 35**
11.1 Troubleshooting table 35

**12. Connection diagram 36**

# 1. About this Installation and Operating Manual

## 1.1 Storage and circulation of the Installation and Operating Manual

Read this installation and operating manual carefully and completely before installation, commissioning and operation and also before removal. Follow all warnings and safety instructions.
Keep this installation and operating manual accessible to all users at all times at the place of use.
A replacement for the installation and operating manual can be downloaded from **SOMMER** at:
**www.sommer.eu**
In the event of transfer or resale of the device to third parties, the following documents must be passed on to the new owner:

- EC Declaration of Conformity
- handover protocol and inspection book
- this installation and operating manual
- proof of regular maintenance, testing and care
- documents recording retrofitting and repairs

## 1.2 Important for translations

The original installation and operating manual was written in German. The other available languages are translations of the German version. You can get the original installation and operating manual by scanning the QR code.

**http://som4.me/orig-giga-ta-rev-c**

## 1.3 Description of the product type

The control unit has been constructed according to state-of-the-art technology and recognised technical regulations and is subject to the EC Machinery Directive (2006/42/EC).
The control unit is fitted with a radio receiver.
Optionally available accessories are also described.
The version can vary depending on the type. This means the use of accessories can vary.

## 1.4 Target groups of the Installation and Operating Manual

The installation and operating manual must be read and observed by everyone assigned with one of the following tasks or using the device:

- unloading and in-house transport
- unpacking and installation
- initial operation
- setting
- usage
- maintenance, testing and care
- troubleshooting and repairs
- disassembly and disposal

## 1.5 Explanation of warning symbols and notes

The warnings in this installation and operating manual are structured as follows.

Hazard symbol

**⚠ Signal word**

**Type and source of hazard**
**Consequences of the hazard**
► Preventing/avoiding the hazard

The hazard symbol indicates the hazard. The signal word is linked to a hazard symbol. The hazard is classified into three classes depending on its danger:

**DANGER**

**WARNING**

**CAUTION**

# 1. About this Installation and Operating Manual

There are three different classifications of hazards.

**⚠ DANGER**

**Describes an immediate danger that leads to serious injury or death**

**Describes the consequences of the danger to you or other persons.**

► Follow the instructions for avoiding or preventing the danger.

**⚠ WARNING**

**Describes a potential danger of serious injury or death**

**Describes the potential consequences of the danger to you or other persons.**

► Follow the instructions for avoiding or preventing the danger.

**⚠ CAUTION**

**Describes a potential danger of a hazardous situation**

**Describes the potential consequences of the danger to you or other persons.**

► Follow the instructions for avoiding or preventing the danger.

The following symbols are used for notes and information:

***NOTE***

**Describes additional information and useful notes for correct use of the product without endangering persons. If it is not observed, property damage or faults in the device or gate may occur.**

**INFORMATION**

**Describes additional information and useful tips. Functions for optimum usage of the product are described.**

**INFORMATION**

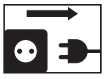
**This symbol indicates that all device components that have been taken out of service must not be disposed of with household waste, as they contain hazardous substances. The components must be disposed of correctly at an authorised recycling centre. The local and national regulations must be observed.**

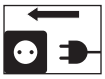
**INFORMATION**

**This symbol indicates that all old accumulators and batteries must not be disposed of with household waste. Old accumulators and batteries contain hazardous substances. These must be disposed of properly at municipal collection points or in the containers provided by dealers. The local and national regulations must be observed.**

The following symbols are used in the figures and text.


Continue reading the installation and operating manual for more information.


Disconnect the device from the mains voltage.


Connect the device to the mains voltage.


Symbol refers to factory settings.


Connection to a WiFi-enabled device via SOMlink

## 1.6 Special warnings, hazard symbols and mandatory signs

To specify the source of danger more precisely, the following symbols are used together with the above-mentioned hazard symbols and signal words. Follow the instructions to prevent a potential hazard.

## 1.7 Special warnings, hazard symbols and mandatory signs

To specify the source of danger more precisely, the following symbols are used together with the above-mentioned hazard symbols and signal words. Follow the respective instructions to prevent a potential hazard.

| | |
|---|---|
|  | **Danger due to electric current!** |
|  | **Danger due to falling parts!** |
|  | **Danger of entrapment!** |

# 1. About this Installation and Operating Manual

| | |
|---|---|
|  | **Danger of crushing and shearing!** |
|  | **Danger of tripping and falling!** |
|  | **Danger due to optical radiation!** |
|  | **Danger due to hot parts!** |
|  | **Risk of eye injury!** |
|  | **Risk of injury in the head region!** |
|  | **Risk of injury to hands!** |

## 1.8 Information regarding the depiction of text

**1.** Stands for directions for an action

⇒ Stands for the results of the action

Lists are shown as a list of actions:

- List 1
- List 2

1, A 1 A Item number in the figure refers to a number in the text.

Important text items, for example in directions for actions, are emphasised in **bold** type.
References to other chapters or sections are in **bold** and set in **"quotation marks"**.

# 1. About this Installation and Operating Manual

## 1.9 Intended use of the control unit

The GIGAcontrol TA extends the range of functions of the industrial gate control unit GIGAcontrol T+. It was designed solely for this purpose. Any changes to the control unit must be made with original **SOMMER** accessories only and only to the extent described.
Gates automated with this control unit must comply with all valid international and domestic standards, directives and regulations. These include EN 12604, EN 12605 and EN 13241-1.
The control unit may only be used:

- if the EC Declaration of Conformity has been issued for the gate system
- if the CE mark and the type plate for the gate system have been attached to the gate
- if the handover protocol and the inspection book have been completed and are available
- if the installation and operating manuals for the operator and the gate are present
- as specified in this Installation and Operating Manual
- in good technical condition
- with attention to safety and hazards by trained users.

Only original spare parts may be used.

The control unit may only be installed in areas where there is not a corrosive atmosphere (such as salty air).

## 1.10 Improper use of the control unit

Any use other than or above and beyond that described in Chapter **"1.9 Intended use of the control unit" on page 8**constitutes improper use. The user bears the sole responsibility for any risk involved.
The manufacturer's warranty will be voided by:

- damage caused by other use and improper use
- use with defective parts
- unauthorised modifications to the control unit
- modifications and non-approved programming of the device and its components

The gate must not be part of a fire protection system, an escape route or an emergency exit that automatically closes the gate in the event of fire. Installation of the operator will prevent automatic closing.
Observe the local building regulations.
The control unit must not be used in:

- areas with explosion hazard
- very salty air
- aggressive atmosphere, including chlorine

## 1.11 Qualifications of personnel

Persons under the influence of drugs, alcohol, or medications that can influence their ability to react may **not** work on the device.
After installation of the control unit, the person responsible for the installation of the control unit must complete an EC Declaration of Conformity for the gate system in accordance with Machinery Directive 2006/42/EC and apply the CE mark and a type plate to the gate system. This also applies if the control unit is retrofitted to a manually operated gate. In addition, a handover protocol and an inspection book must be completed.
The following are available:

- EC Declaration of Conformity
- handover protocol for the device

**www.som4.me/konform**

# 1. About this Installation and Operating Manual

**Qualified specialist for installation, commissioning and disassembly**
This installation and operating manual must be read, understood and complied with by a qualified specialist who installs or performs maintenance on the product.
Work on the electrical system and live parts may be performed only by a **trained electrician** in accordance with EN 50110-1.
The installation, initial operation and disassembly of the product may only be performed by a qualified specialist.
The qualified specialist must be familiar with the following standards:

- EN 13241-1 Doors and gates – Product standard
- EN 12604 Doors and gates – Mechanical aspects – Requirements
- EN 12605 Doors and gates – Mechanical aspects – Test methods
- EN 12445 and EN 12453 – Safety in use of power-operated doors

A qualified specialist is a person commissioned by the installer. The qualified specialist must instruct the user:

- on the operation of the system and its dangers
- on the handling of the manual emergency release
- on regular maintenance, testing and care which the user can carry out

The user must be informed that other users must be instructed on the operation of the control unit, its dangers as well as the emergency release.
The user must be informed about which work may only be performed by a qualified specialist:

- installation of accessories
- settings
- regular maintenance, testing and care
- troubleshooting and repairs

The following documents for the gate system must be handed over to the user:

- EC Declaration of Conformity
- handover protocol and inspection book
- the installation and operating manuals for the operator and the gate

## 1.12 For the user

The user must ensure that the CE mark and the type plate have been attached to the gate system.
The following documents for the gate system must be handed over to the user:

- the installation and operating manuals for the operator and the gate
- Inspection book
- EC Declaration of Conformity
- handover protocol

The user must always keep this Installation and Operating Manual at the place of use, ready for consultation and accessible to all users.
The user is responsible for:

- the intended use of the control unit
- its good condition
- instructing all users how to use the gate system and in the associated hazards
- operation
- maintenance, inspection and care by a qualified specialist
- troubleshooting and repair by a qualified specialist

The product must not be used by persons with restricted physical, sensory or mental capacity or who lack experience and knowledge. All users must be specially instructed and have read and understood the Installation and Operating Manual.
Children must never play with or use the gate system, even under supervision. Children must be kept clear of the gate system. Handheld transmitters or other command devices must never be given to children. Handheld transmitters must be safely stored and protected against unintended and unauthorised use.
The user must observe the accident prevention regulations and the applicable standards in Germany. In other countries, the user must comply with the applicable national regulations.
The guideline "Technical regulations for workplaces ASR A1.7" of the German committee for workplaces (ASTA) is applicable for commercial use. The guidelines described must be observed and complied with.
This applies for use in Germany. In other countries, the user must comply with the applicable national regulations.

# 2. General safety instructions

## 2.1 Basic safety instructions for operation

Follow the basic safety instructions listed below.

The control unit must not be used by persons with restricted physical, sensory or mental capacity or who lack experience and knowledge. All users must be specially instructed and have read and understood the installation and operating instructions.
Children must never play with or use the gate system, even under supervision. Children must be kept clear of the gate system. Handheld transmitters or other command devices must never be given to children. Handheld transmitters must be safely stored and protected against unintended and unauthorised use.

**⚠ DANGER**

**Danger if not observed!**
**Failure to observe the safety instructions may cause serious or fatal injury!**
► All safety instructions must be observed!

**⚠ Danger due to electric current**

Contact with live components can lead to electric shocks, burns or fatal injury!

- All work on electrical components must be carried out by qualified personnel!
- Disconnect the mains plug before working on the device!
- If an accumulator is used, disconnect it from the control unit!
- Check that the device is disconnected from the voltage supply!
- Secure it against being switched back on!
- Before commissioning, it is essential to ensure that the specifications on the type plates of the operator and the control unit match.
- All electrical wires must be fitted tightly and secured against shifting.
- In case of a three-phase current connection, make sure that the direction of rotation is clockwise.
- Installations with a fixed mains connection require an all-phase mains circuit breaker with appropriate fuses.
- Regularly check power cables and wires for insulation defects or cracks. If a fault is detected, take the system out of operation immediately and repair the damage.
- Before switching on for the first time, make sure that all plug-in terminals are in their correct positions.

**⚠ Danger if faulty components are used**

Serious or fatal injury may result if faulty components are used!

- The control unit may only be used with the required settings and if it is in perfect condition!
- Have faults remedied immediately by a specialist!

**⚠ Danger of hazardous substances**

Incorrect handling of accumulators and batteries poses a risk of serious or fatal injury to persons and animals!

- Store accumulators and batteries out of the reach of children, persons with mental disabilities and animals!
- Keep batteries and accumulators away from chemical, mechanical and thermal influences!
- Do not recharge batteries and defective accumulators!
- Dispose of batteries, accumulators and other product components professionally and in accordance with the locally applicable regulations!

**⚠ Danger of persons becoming trapped**

If persons or animals become trapped in a garage or production hall, this may cause serious injury or death.

- Check the emergency release regularly, including from the outside, for correct functioning!
- Have faults remedied immediately by a specialist!

**⚠ Danger through gate components projecting into a publicly accessible area**

There is a risk of serious or fatal injury if components of the gate system project into public roads or footpaths

- Make sure that components of the gate system do not project into public areas at any time!

**⚠ Danger due to falling parts of gates**

Actuating the emergency release can lead to uncontrolled gate movement if:

- springs are weak or broken
- the gate has not been optimally weight-balanced

If persons or animals are struck by gate parts, there is a risk of serious or fatal injury!

- Check the weight balance of the gate at regular intervals!
- Always pay attention to the movement of the gate when the emergency release is actuated!
- Keep out of the range of movement of the gate!

**⚠ Danger due to being pulled in**

If persons or animals are trapped and pulled along with the gate, this may cause serious injury or death!

- Keep out of the range of movement of the gate!

# 2. General safety instructions

**⚠ Danger of crushing and shearing**

There is a risk of serious or fatal injury for persons or animals in the range of movement of the gate system!

- Never enter the range of movement of the gate!
- Only use the equipment when you have a direct view of the gate system!
- Keep other persons and animals away from the movement area of the gate system!
- Never reach into moving mechanical components while the gate is moving!
- Never reach between the ceiling suspension unit and the motor carriage while the gate is moving!
- Do not pass through the gate until it has been fully opened!
- Keep handheld transmitters out of the reach of children, persons with mental disabilities and animals!
- Never stand under the opened gate

**⚠ Danger due to optical radiation**

Looking into the beam of a bright LED for prolonged periods can cause temporary irritation of the eyes. Serious or fatal accidents can occur as a result.

- Never look directly into an LED!

**⚠ Danger due to incorrect settings**

Serious or fatal injury can occur if the control unit is not set correctly.

- The control unit must be set in a way that ensures safe operation in conformity with the standards.

## 2.2 Further useful information

- Only use original spare parts.
- The control unit must be stored in an enclosed, dry area at a room temperature of -5° to 50° C and at a maximum relative humidity of 90%.
- Dispose of all components professionally and in accordance with the locally applicable regulations!

## 2.3 Additional safety information for the handheld transmitter

Follow the basic safety instructions listed below.

**Danger of crushing and shearing**

Using the handheld transmitter without a direct view of the gate system can lead to serious or fatal injury to persons or animals!

- Never enter the range of movement of the gate!
- Only use the operator when you have a direct view of the gate system!
- Keep other persons and animals away from the movement area of the gate system!
- Never reach into moving mechanical components while the gate is moving!
- Do not pass through the gate until it has been fully opened!
- Keep handheld transmitters out of the reach of children, persons with mental disabilities and animals!
- Never stand under the opened gate

## 2.4 Additional useful information relating to the handheld transmitter

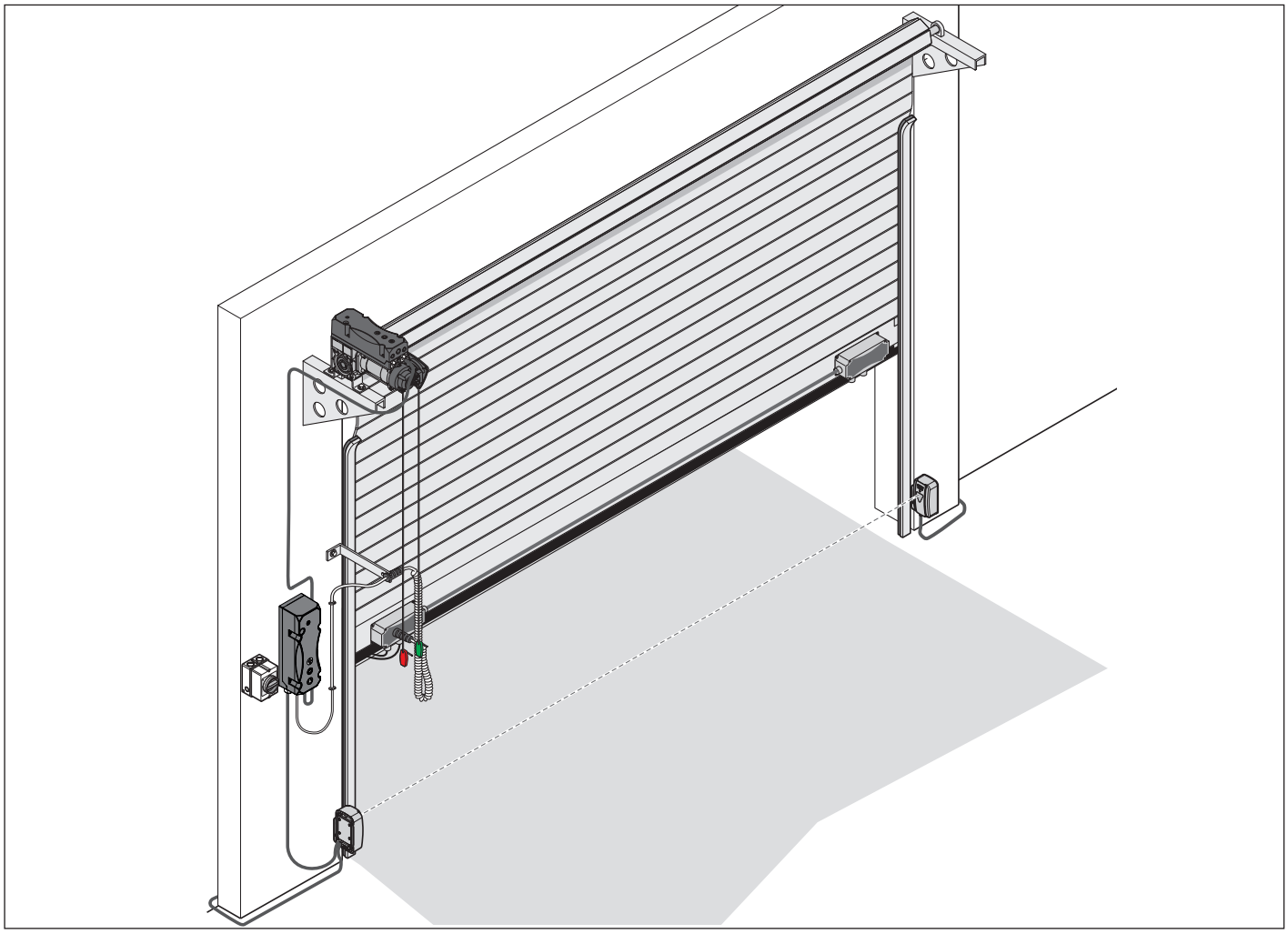
If the handheld transmitter is used without a direct view of the gate system, objects within the movement area of the gate may be jammed and damaged

- Do not store objects within the range of movement of the gate!

The user of the radio system is not protected against interference due to other telecommunications equipment or devices. This includes radio-controlled systems that are licensed to operate in the same frequency range. If significant interference occurs, please contact your appropriate telecommunications office which has radio interference measuring equipment or radio location equipment.

# 3. Description of function and product

## 3.1 Function of the control unit



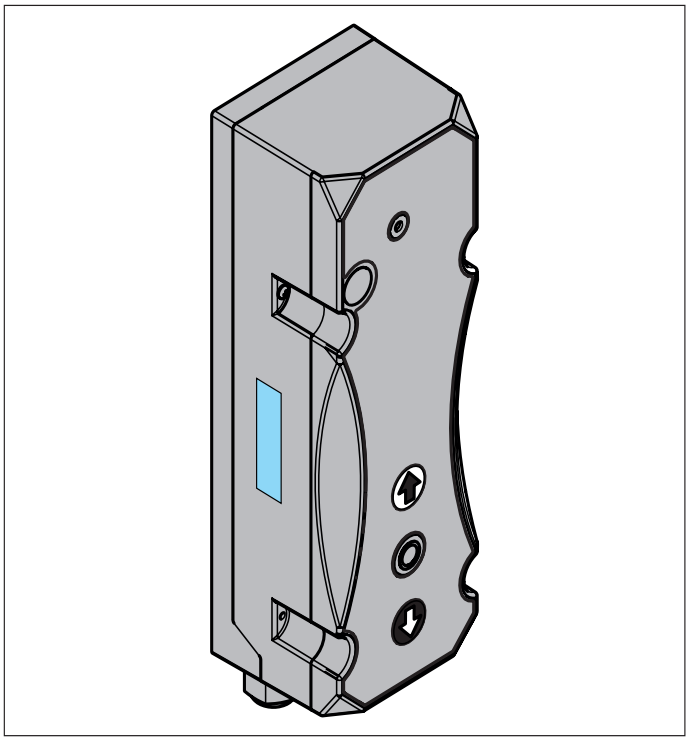
The GIGAcontrol TA control unit allows you to open and close sectional doors and roller doors which are already equipped with an operator in the GIGAsedo+ or GIGAroll+ series in automatic mode.
The control unit is connected to the integrated GIGAcontrol T+ controller of the GIGAsedo+ or GIGAroll+ operator via a 4-wire cable. Operation is possible via the integrated 3-function pad, optional handheld transmitters or additional external command devices.

## 3.2 Safety equipment

The operator controlled via the GIGAcontrol TA required additional safety devices in accordance with EN 12453... in order to detect obstacles and prevent injury and damage to property. The GIGAcontrol TA control unit is equipped with the necessary connections.
In the event of a power failure, the gate can be opened and closed using the type-specific emergency release. For more information, contact your specialist dealer.

# 3. Description of function and product

## 3.3 Product designation



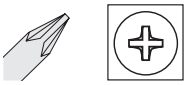
The type plate includes:

- type designation
- item Number
- date of manufacture with month and year
- serial number

In case of questions or service, you will need to specify the type designation, the date of manufacture and the serial number.

**Tool symbols**

These symbols refer to the use of tools required for installation.

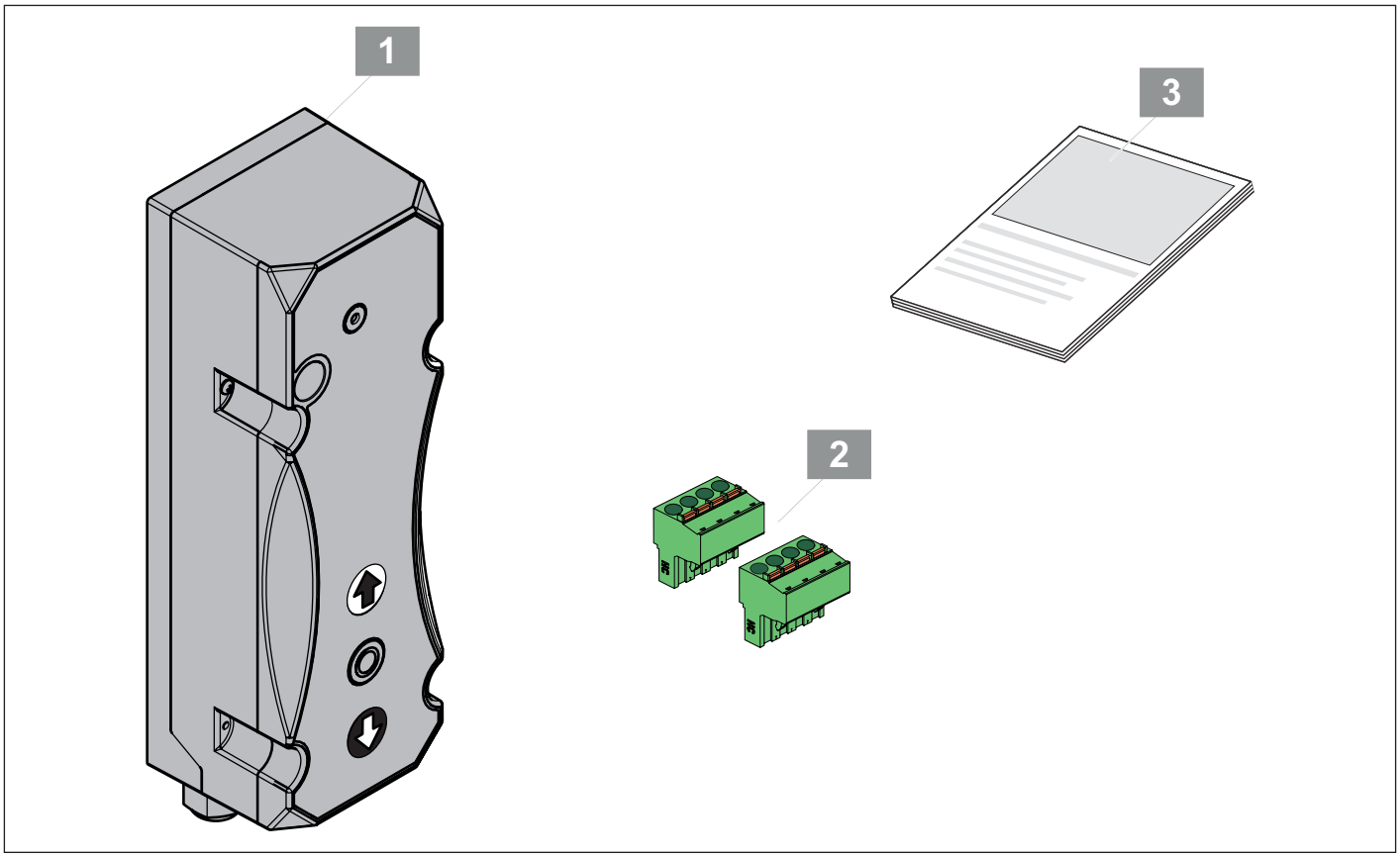


Phillips screwdriver

A drill suitable for the installation subsurface

# 3. Description of function and product

## 3.4 Scope of delivery

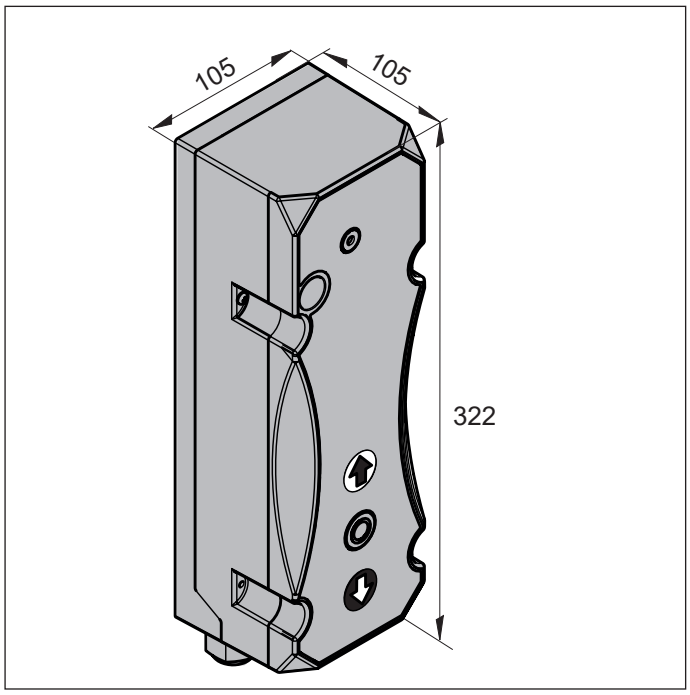



1) GIGAcontrol TA control unit
2) 2 spring-type terminals
3) Installation and Operating Manual

When unpacking, make sure that all items are included in the packages. If anything is missing, contact your specialist dealer. The actual scope of delivery may vary depending on the type or customer specifications.

# 3. Description of function and product

## 3.5 Dimensions




## 3.6 Technical data

| | |
|---|---|
| **Dimensions** | 322 x 105 x 105 mm (H x W x D) |
| **Control voltage** | 28 – 36 V DC max. load 400 mA |
| **Temperature range** | –25 ºC to +65 ºC |
| **Connection cross-section of the connection cable** | 4 x 0.25 mm² |
| **Protection class** | IP 54 / optionally IP 65 |

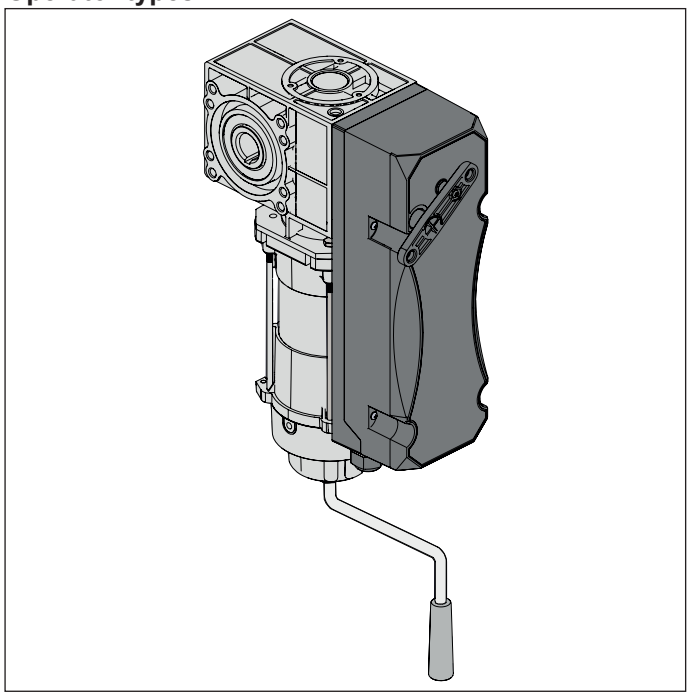
# 3. Description of function and product

## 3.7 Gate types, operator types and accessories

**Gate types**

The GIGAcontrol TA control unit is suitable for industrial sectional doors and industrial roller doors in combination with the operator types named below.

**Operator types**



The GIGAcontrol TA control unit is compatible with **GIGAsedo+** and **GIGAroll+ operators which are already equipped with the dead man control unit GIGAcontrol T+**. A comprehensive range of accessories is available for each operator type.

**www.som4.me/catalog**

# 4. Tools and protective equipment

## 4.1 Required tools and personal protective equipment

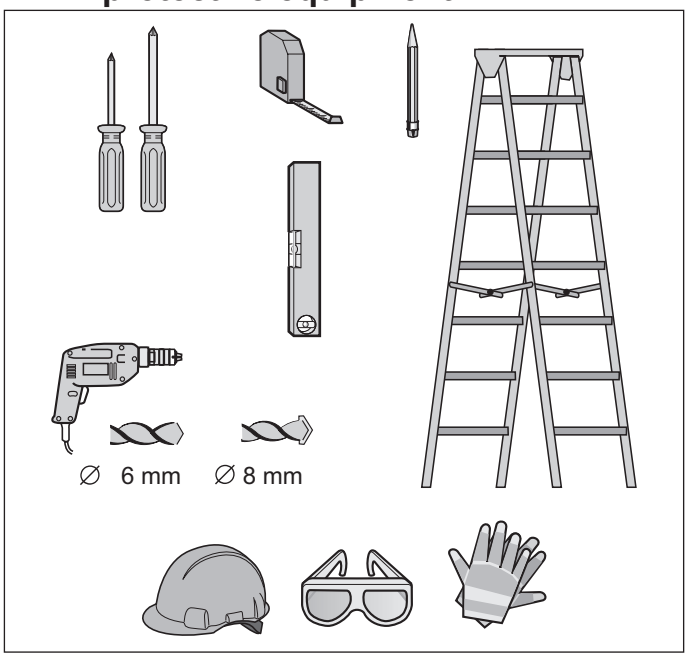



Fig. Recommended tools and personal protective equipment for installation

You will require the tools shown above to assemble and install the control unit. Lay out the required tools beforehand to ensure fast and safe installation.

**⚠ WARNING**

**Risk of eye injury!**
**Chips flying when drilling may cause serious injuries to eyes and hands.**
► Wear safety glasses when drilling.

**Risk of injury in the head region!**
**Impact with suspended objects may cause serious abrasions and cuts.**
► You must wear a safety helmet when installing suspended parts.

**Risk of injury to hands!**
**Rough metal parts may cause abrasions and cuts when picked up or touched.**
► Wear safety gloves when deburring or performing similar work.

Wear your personal protective equipment. This includes safety glasses, safety gloves and a safety helmet.

# 5. Declaration of Conformity

## Declaration of Conformity

for the installation of an incomplete machine
in accordance with the in accordance with the Machinery Directive 2006/42/EC,
Annex II, Section 1 A

SOMMER Antriebs- und Funktechnik GmbH
Hans - Böckler - Straße 21 - 27
73230 Kirchheim unter Teck
Germany

hereby declares that the industrial gate control unit

### GIGAcontrol TA

has been developed, designed and manufactured in conformity with the

- Machinery Directive 2006/42/EC
- Low Voltage Directive 2014/35/EU
- Electromagnetic Compatibility Directive 2014/30/EU
- RoHS Directive 2011/65/EU

The following standards were applied:

| | |
|---|---|
| • EN ISO 13849-1, PL "C" Cat. 2 | Safety of machines - safety-related parts of controls - Part 1: General design guidelines |
| • EN 60335-1, where applicable | Safety of electrical appliances |
| • EN 61000-6-3 | Electromagnetic compatibility (EMC) - interference |
| • EN 61000-6-2 | Electromagnetic compatibility (EMC) - interference resistance |

The following requirements of Annex 1 of the Machinery Directive 2006/42/EC are met:

1.1.2, 1.1.3, 1.1.5, 1.2.1, 1.2.2, 1.2.3, 1.2.4, 1.2.6, 1.3.2, 1.3.4, 1.3.7, 1.5.1, 1.5.4, 1.5.6, 1.5.14, 1.6.1, 1.6.2, 1.6.3, 1.7.1, 1.7.3, 1.7.4

The special technical documentation was prepared in accordance with Annex VII Part B and will be submitted to regulators electronically on request.

The incomplete machine is intended for installation in a gate system only to form a complete machine as defined by the Machinery Directive 2006/42/EC. The gate system may only be put into operation after it has been established that the complete system complies with the regulations of the above EC Directives.

The undersigned is responsible for compilation of the technical documents.

Kirchheim, 20.12.2018

CE

i.V.

Jochen Lude
Responsible for documents

# 6. Installation

## 6.1 Important information on installation

In particular, please observe and comply with the following safety instructions to ensure safe installation. Persons under the influence of drugs, alcohol, or medications that can influence their ability to react may **not** work on the device.
The device may only installed by a qualified specialist. This Installation and Operating Manual must be read, understood and complied with by a qualified specialist who installs the device.

**⚠ DANGER**

**Danger if not observed!**
**If safety instructions are not observed, serious injury or death may result.**
- ► All safety instructions must be complied with.

**⚠ WARNING**

**Danger of falling!**
**Unsafe or defective ladders may tip and cause serious or fatal accidents.**
- ► Use only a non-slip, stable ladder.
- ► Ensure that ladders are safely positioned.

**Danger for trapped persons!**
**Persons may be trapped inside the garage. If trapped persons cannot free themselves, severe injury or death may result.**
- ► Test the operation of the emergency release regularly from inside and if necessary, also from outside.
- ► If there is no second entrance to the garage, you must have a release lock or a Bowden wire for unlocking from the outside installed. This can be used to free persons who cannot free themselves.

**⚠ WARNING**

**Danger due to projecting parts!**
**Gate leaves or other parts must not project into public roads or footpaths. This also applies while the gate is moving.**
**This may cause serious injury or death to persons or animals.**
- ► Keep public roads and footpaths clear ofprojecting parts.

**Danger due to falling ceiling and wall parts!**
**The control unit cannot be installed correctly if ceiling and walls are unstable or if unsuitable mounting materials are used. Persons or animals may be struck by falling parts of the wall or ceiling. Severe injuries or death may result.**
- ► You must test the stability of the ceiling and the walls.
- ► Use only permissible mounting materials appropriate for the supporting surface.

**Danger of entrapment!**
**Loose clothing or long hair may be trapped by moving parts of the gate. Severe injuries or death may result.**
- ► Keep clear of the moving gate.
- ► Always wear tight-fitting clothing.
- ► Wear a hairnet if you have long hair.

# 6. Installation

**⚠ WARNING**

**Danger of crushing and shearing!**
**If the gate moves and there are persons or animals in the movement area, crushing and shearing injuries may be caused by the mechanism and safety edges of the gate.**

- ► Only use the gate system when you have a direct view of the gate.
- ► All danger zones must be visible during the entire gate operation.
- ► Control or regulating units in a fixed position must be mounted within sight of the gate, but not within the range of moving parts, and at a height of at least 1.5 m.
- ► Always keep the moving gate in sight.
- ► Keep persons and animals clear of the range of movement of the gate.
- ► Never put your hand near the gate when it is moving or near moving parts. In particular, do not reach into the moving push arm.
- ► Do not reach into the ceiling suspension unit when the motor carriage is running along the track.
- ► Do not drive through the gate until it has opened completely.
- ► Never stand under the opened gate.
- ► After installation, check that the operator has been correctly adjusted and that it reverses at the specified measuring points.

**Danger of tripping and falling!**
**Unsafely positioned parts such as packaging, device parts or tools may cause persons to trip or fall.**

- ► Keep the installation area free of unnecessary items.
- ► Place all parts where no-one is likely to trip or fall over them.
- ► The general workplace guidelines must be observed.

**⚠ WARNING**

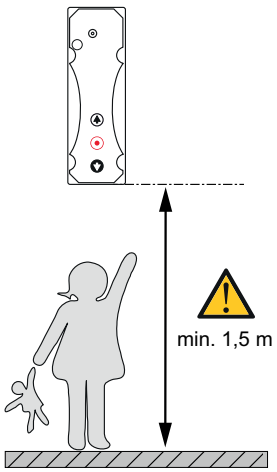
**Risk of eye injury**
**Chips flying when drilling may cause serious injuries to eyes and hands.**

- ► Wear safety glasses

**⚠ CAUTION**

**Danger if the system is used by children!**
**If the gate system is operated by children, there is a danger of them being trapped by the gate or pulled into the mechanism!**

- ► Keep children away from the gate system.
- ► Observe the minimum installation height of 1.5 m.




**⚠ CAUTION**

**Risk of injury to hands!**
**Rough metal parts may cause abrasions and cuts when picked up or touched.**

- ► Wear safety gloves when deburring or performing similar work.

# 6. Installation

**NOTE**

- ► **If the ceiling and walls are not stable, parts of the ceiling, walls or the operator may fall. Objects may be damaged. Ceiling and walls must be stable.**
- ► **To prevent damage to the gate or operator, use only approved mounting materials such as wall plugs or screws. The mounting material must be suitable for the material of the ceiling and walls. This applies particularly for prefabricated garages.**
- ► **When drilling, cover all openings to prevent the ingress of dirt.**
- ► **Before opening the housing, make sure that drilling chips or similar material cannot fall into the housing.**
- ► **Before installing the device, inspect it for transport damage and any other defects.**

**INFORMATION**
**Ask your specialist dealer if you require additional installation accessories for different installation or attachment situations.**

## 6.2 Preparation for installation

**Removal of actuation parts**

**WARNING**

**Danger caused by defective components!**
**Serious injuries can occur if a damaged control unit is installed and put into operation.**
► Never install or operate a damaged product.

**Danger of entrapment!**
**Persons or animals may be trapped by straps or cords and pulled into the movement zone of the gate. Severe injuries or death may result.**
► Remove straps and cords used for mechanical actuation of the gate.

Before installation remove:

- manual locking on gate
- all cords or straps necessary to operate the gate by hand.

**Disabling mechanical locks**

**NOTE**

**If locks or other locking systems are installed on a mechanical gate, they may block the operator. This may cause faults or damage to the operator.**
**Before the installation of the control unit, all mechanical locking systems must be disabled.**

The mechanical lock on a gate with an operator must be removed or disabled if it is not compatible with the operator.

# 6. Installation

**Checking the mechanism and weight balance**

**⚠ WARNING**

**Danger due to falling parts of gates or complete gate panels!**

**Wires, spring sets and other fittings can be damaged and break. The complete gate panel can fall. Persons or animals may be struck by falling parts of the gate or the complete gate panel. Severe injuries or death may result.**

Before installation, qualified personnel must check the following and adapt if necessary:

- ► wires, spring sets and other fittings of the gate.
- ► the weight balance of the gate.

**Danger of entrapment!**

**If the force setting is too high, persons or animals in the movement area of the gate may be trapped and pulled along with the gate. Severe injuries or death may result.**

- ► The force setting is relevant to safety and must be carried out by a trained specialist.
- ► You must proceed with extreme caution if you check and if necessary adjust the force setting.

**NOTE**

**If the weight compensation of the gate is incorrectly adjusted, the operator may be damaged.**

- The gate must be stable.
- It must not bend, rotate or twist when opening and closing.
- The gate must move easily in its tracks.

# 7. Electrical installation

## 7.1 Warning and safety information on electrical installation

**⚠ DANGER**

**Danger due to electric current!**

**Contact with live parts may result in electric current flowing through the body. Electric shock, burns or death will result.**

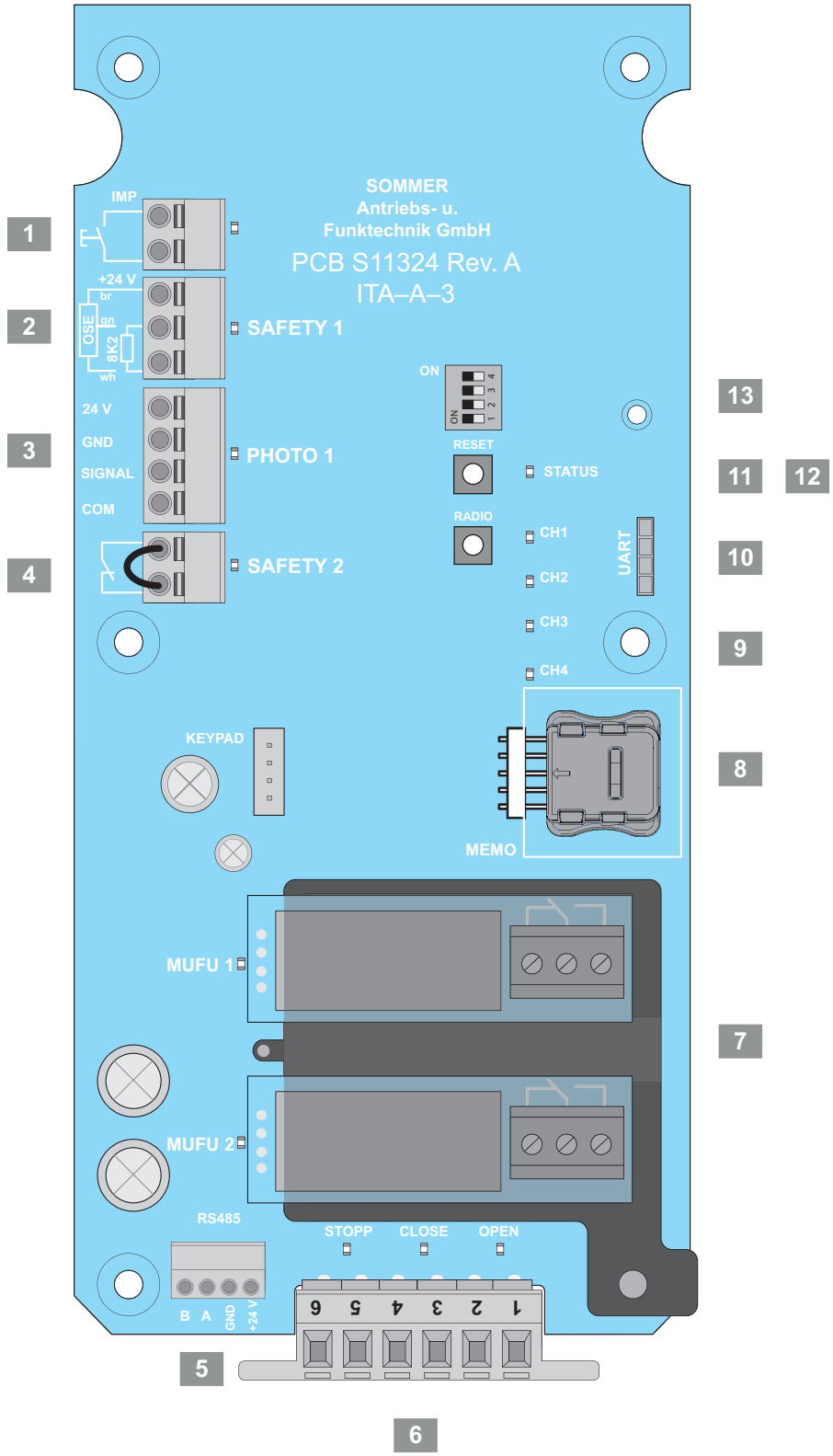
- ► All work on electrical components must be carried out by **trained electricians**.
- ► The mains plug must be disconnected before working on the control unit.
- ► Check that the system is disconnected from the voltage supply.
- ► Secure it against being switched back on.
- ► Observe the requirements of the local power supplier.
- ► The mains cable may only be replaced by the manufacturer, customer service or other qualified electrician!
- ► All electrical wires must be fitted tightly and secured against shifting.

***NOTE***

- ► **Electrical components may be damaged by electrostatic discharge when touched.**
- ► **Close unused cable inserts with suitable material to maintain the desired IP protection class.**
- ► **All devices to be connected externally must have a safe isolation of the contacts from the mains voltage supply in accordance with IEC-60364-4-41**
- ► **Wiring for external devices must be installed in accordance with IEC-60364-4-41.**

# 7. Electrical installation

## 7.2 Overview



# 7. Electrical installation

## 7.3 Connection options

| | |
|---|---|
| 1) | terminal block (2-pin)<br>**External command device (pulse button)**<br>Programmable via SOMlink |
| 2) | SAFETY 1 terminal block (3-pin)<br>**8k2 safety contact strip,<br>OSE safety contact strip,<br>OSE light curtain,<br>OSE leading photocell,<br>air wave edge**<br>Programmable via SOMlink<br>DIP switch configuration possible |
| 3) | PHOTO 1 terminal block (4-pin)<br>**Photocell, 2-wire or 4-wire<br>Frame photocell***<br>Programmable via SOMlink |
| 4) | SAFETY 2 terminal block (2-pin)<br>**Slack wire switch and wicket door contact** |
| 5) | RS485 slot<br>**Cable connection to the operator**<br>Serial interface |
| 6) | terminal block (6-pin)<br>**External command device (3-function pad)**<br>Programmable via SOMlink |
| 7) | MUFU 1 and MUFU 2 connections<br>**Multi-function relay / open collector**<br>**Pre-set function MUFU 1:**<br>status display gate CLOSE end position<br>**Pre-set function MUFU 2:**<br>cycles while the operator runs<br>**Allowable contact load:**<br>Relay: Max. 5 A, 250 V AC / max. 5 A, 24 V DC<br>Output OC: Max. 400 mA, 24 V DC, 8.5 W**<br>Programmable via SOMlink |
| 8) | MEMO slot<br>**Memory extension for radio commands** |
| 9) | LED CH1 - CH4 (red)<br>**Display, radio channel** |
| 10) | Radio button RADIO<br>**Selection of radio channel** |
| 11) | RESET key<br>**Reset** |
| 12) | STATUS LED (green)<br>**Status display** |
| 13) | DIP switches 1 - 4<br>**Selection switches for operating modes / special functions** |

* Max. installation height: 300 mm

** 400 mA are only available if no further accessories are connected.

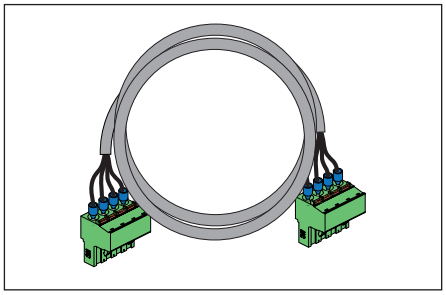
**Overview for wiring, see "12. Connection diagram" on page 36**

# 7. Electrical installation

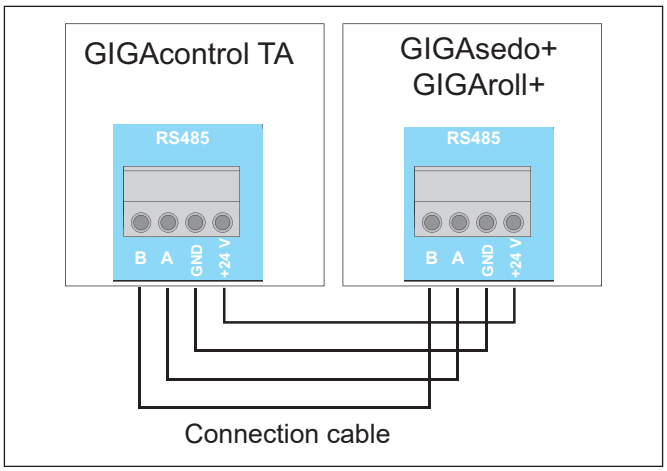
## 7.4 Connection between GIGAsedo+ or GIGAroll+ and GIGAcontrol TA

### Connection cable S11357-00001

**INFORMATION**
**The connection cable must be established using Item S11357-00001, which is available separately from SOMMER, or another suitable 4-wire cable, and the two spring-type terminals included in the scope of delivery.**



1. Establish connection cable using a suitable cable and the spring-type terminals.




2. Connect the boards of the GIGAcontrol TA and the dead man control unit GIGAcontrol T+ using the cable.

## 7.5 Connecting accessories

Connect accessories with the help of the table **"7.3 Connection options" on page 25** and the wiring diagram **"12. Connection diagram" on page 36**

# 8. Initial operation

## Initial operation

**DANGER**

**Danger due to electric current!**
**If the technical data on the operator and control unit do not match**

► Before commissioning, it is essential to ensure that the specifications on the type plates of the operator and the control unit match.

## 8.1 Detecting the motor direction and setting the end positions

**INFORMATION**
**Before initial commissioning can be started, the gate must be moved to the centre position.**
**To move the gate to the centre position, it can be moved to the required position with the emergency manual actuation or moved to the required position in emergency jog mode.**

**INFORMATION**
**It is important to read the complete description of initial commissioning carefully and in full and only then start commissioning to be able to complete the various commissioning steps correctly.**

### 1. Detecting motor direction

- Press and hold the "STOP button" and the "UP button" simultaneously.
  ⇒ After three seconds, the motor automatically starts briefly, showing the motor direction
  ⇒ The message LED on the operator blinks slowly

**1.** A) If the motor direction is correct, i.e. in OPEN direction:

- Continue pressing the "OPEN button" and the "STOP button."
  ⇒ The message LED on the operator blinks slowly
  ⇒ The operator starts after a further 7 seconds
  ⇒ The motor direction was confirmed
  ⇒ The top end position can be defined

**1.** B) If the motor direction is not correct, i.e. in CLOSE direction:

- Release both buttons and wait for 3 seconds.
- Repeat step 1

**INFORMATION**
**10 seconds after successful completion of detection of the motor direction (and continuously pressed "OPEN" and "STOP" buttons), the operator runs in the "OPEN direction."**
**If a button is released during the process, the operator stops.**

**- The process can continued within 60 seconds by pressing and holding the "OPEN button" and the "STOP button" again.**

**- If the process is not continued within this period, the control unit automatically resets itself. After this, only jog mode is available**

**INFORMATION**
**To ensure that any possible backlash in the gearing does not displace the end positions, the top end position should be approached from the "OPEN direction" and the bottom end position from the "CLOSE direction."**

### 2. Defining the top end position

- Approach the desired position by pressing the "STOP button" and the "OPEN button" simultaneously.
- Release both buttons when the desired position has been reached.
  ⇒ The message LED on the operator now always blinks twice

**INFORMATION**
**If you overshoot the top end position, this can be corrected by pressing the STOP button and the CLOSE button simultaneously until the desired end position is reached.**

# 8. Initial operation

- Press and hold the "STOP button" for 10 seconds to confirm the end position.
  ⇒ The message LED on the operator blinks slowly
  ⇒ The operator moves a short distance in "CLOSE direction"
  ⇒ The top end position has been successfully defined

**3. Defining the bottom end position**

- Approach the desired position by pressing the "STOP button" and the "CLOSE button" simultaneously.
- Release both buttons when the desired position has been reached.
  ⇒ The message LED on the operator now always blinks twice

**INFORMATION**
**If you overshoot the bottom end position, this can be corrected by pressing the STOP button and the OPEN button simultaneously until the desired end position is reached.**

- Press and hold the "STOP button" for 10 seconds to confirm the end position.
  ⇒ The message LED on the operator blinks slowly
  ⇒ The operator moves a short distance in "OPEN direction"
  ⇒ The bottom end position has been successfully defined
  ⇒ The control unit automatically switches to normal operation

## Overrun correction

The control unit is fitted with automatic position correction. If the gate run-on time changes, e.g. as a result of temperature fluctuations, changes in the spring tension of sectional doors, binding as a result of mechanical damage, the control unit automatically corrects the stopping distance to the defined position value.

The first correction takes place in the first 2 to 3 complete gate cycles after setting the end positions.

**NOTE**
**The end position is intentionally not reached during the first movement after setting the end positions**

**Initial commissioning has been completed!**

## 8.2 Subsequent end position correction

**INFORMATION**
**To ensure that any possible backlash in the gearing does not displace the end positions, the top end position should be approached from the "OPEN direction" and the bottom end position from the "CLOSE direction."**

**Correcting the top end position**

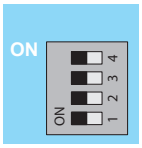
1. Press and hold the "STOP button" and the "UP button" simultaneously.
   ⇒ The motor starts after 10 seconds
   ⇒ The top end position can be redefined
2. Repeat step: **"2. Defining the top end position" on page 27**.

**Correcting the bottom end position**

1. Press and hold the "STOP button" and the "UP button" simultaneously.
   ⇒ The motor starts after 10 seconds.
   ⇒ The bottom end position can be redefined
2. Repeat step: **"3. Defining the bottom end position" on page 28**.

# 8. Initial operation

## 8.3 DIP switches

|  | | ON | OFF |
|---|---|---|---|
| **1** | Automatic closing function | • Activated | • Deactivated |
| **2** | Partial opening | • Activated | • Deactivated |
| **3** | Programme pre-end position switch range | • Activated | • Deactivated |
| **4** | Closing edge safety device | Air wave switch | 8k2 / OSE |

### 8.3.1 DIP switch 1: Setting automatic closing function - defining basic values

When automatic closing is activated, the gate is opened by a pulse.
The gate moves to the gate OPEN end position. The gate closes automatically after the hold open time. With the factory settings, the gate also closes automatically from the partial opening position when the automatic closing function is activated.

**⚠ WARNING**

**Risk of injury during automatic closing!**

**Automatically closing gates can injure people and animals in the movement area of the gate when the gate is closing. Serious injury or death may result.**

- ► Always keep the moving gate in sight.
- ► Keep persons and animals clear of the range of movement of the gate.
- ► Never put your hand near the gate or near moving parts when the gate is moving.
- ► Do not drive through the gate until it has opened completely.
- ► The safety inputs must not be bridged.

**NOTE**

**If the gate is not in view and the operator is actuated, objects in the movement area of the gate may be jammed and damaged. Objects must not be in the range of movement of the gate.**

**INFORMATION**

**The gate opens completely if it hits an obstacle.**

**INFORMATION**

**Operation with automatic closing must comply with EN 12453. This is a legal requirement. National regulations must be observed in non-European countries. A photocell must be connected.**

1. Close the gate.
2. Set DIP switch 1 to "ON."
   ⇒ The pre-set hold open time of the gate is 30 seconds (can be changed via SOMlink)

### 8.3.2 DIP switch 2: Setting partial opening

This function allows you to set a partial opening. The gate then does not open completely, but only to the set gate position (partial opening width).

The partial opening function can be used via radio control system or an optionally connectible external button.

#### Partial opening by radio

Before the partial opening width can be set, a handheld transmitter button must be programmed to radio channel 2: see **"10.2 Programming the transmitter" on page 32**

#### Partial opening via external button

Can only be activated via SOMlink

- Connect external button for partial opening:

See **"7.3 Connection options" on page 25**
See **"12. Connection diagram" on page 36**

# 8. Initial operation

## Activating partial opening and setting the partial opening width

1. Move the gate to gate CLOSE end position.
2. Set DIP switch 2 to "ON."
3. Press the handheld transmitter button programmed to radio channel 2.
   ⇒ The gate moves in OPEN direction
4. Press the handheld transmitter button again when the desired partial opening has been reached.
   ⇒ The gate stops at the desired position
   ⇒ The partial opening position is programmed.

## Deleting partial opening

- Set DIP switch 2 to "OFF."
  ⇒ Partial opening position is deleted
  ⇒ Partial opening function has been deactivated

### 8.3.3 DIP switch 3: Setting the pre-end position switch range

This function prevents the gate opening again or reversing through triggering of the main closing edge safety device (OSE, 8k2, air wave switch) when it reaches the gate CLOSE end position.

**⚠ DANGER**

**Risk of crushing!**
**The main closing edge safety device is no longer factored in between the pre-end position switch and the gate CLOSE end position.**
► Do not use the operator unless you have a clear view of the range of movement of the gate.

1. Move the gate to the OPEN end position.
2. Set DIP switch 3 to "ON."
   ⇒ Operator is in dead man mode
3. Move the gate to the desired position (max. 5 cm from gate CLOSE end position).
4. Confirm the position by pressing the STOP button.
   ⇒ Operator is in pulse mode again

## Deleting the pre-end position switch range

**INFORMATION**
**If dip switch 3 is deactivated, the gate reverses when it reaches the gate CLOSE end position, as the main closing edge safety device is triggered**

1. Set DIP switch 3 to "OFF."
   ⇒ The pre-end position switch range must be set again

### 8.3.4 DIP switch 4: Setting the safety edge

This function activates evaluation of an air wave switch at the SAFETY 1 input. Testing is carried out when the gate CLOSE end position is reached.

**INFORMATION**
**If dip switch 4 is activated, the control unit expects the triggering of the air wave switch when the gate CLOSE end position is reached (test)**

#### Using an air wave switch

1. Set DIP switch 4 to ON.
   ⇒ Air wave switch is defined for safety input SAFETY 1
2. Press the Reset button on the control unit for 1 second
   ⇒ "Status" LED lights up
   ⇒ Connected safety devices are reset
   ⇒ Connected safety devices are detected again

#### Using an 8k2 or optical safety contact strip (OSE)

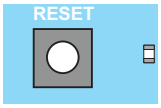
1. Set DIP switch 4 to OFF.
   ⇒ 8k2 or OSE is defined for safety input SAFETY 1
2. Press the Reset button on the control unit for 1 second.
   ⇒ "Status" LED lights up
   ⇒ Connected safety devices are reset
   ⇒ Connected safety devices are detected again

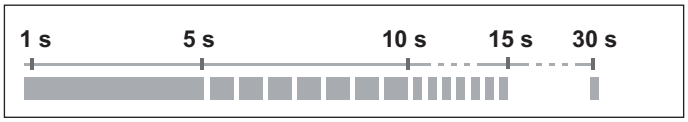
# 9. Reset and factory settings

## 9.1 Reset via the Reset button

**Carrying out a reset**

**INFORMATION**
**All possible types of reset can be carried out with the Reset button on the control unit.**




- Press the button until the desired parameters have been deleted.

**Resetting safety devices**

- Press the Reset button for 1 second.
  ⇒ "Status" LED lights up
  ⇒ Reset of the safety devices is completed
  ⇒ Connected safety devices are detected again

**Resetting end positions**

- Press the Reset button for 5 seconds
  ⇒ "Status" LED blinks slowly
  ⇒ Reset of the end positions is completed
  ⇒ Frame photocell has been deleted

**Delete direction**

- Press the Reset button for 10 seconds
  ⇒ "Status" LED blinks quickly
  ⇒ Reset of the motor direction is completed

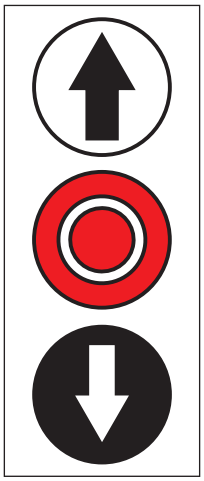
**Factory reset (restoring the factory settings)**

- Press the Reset button for 30 seconds
  ⇒ "Status" LED lights up after a pause of 15 seconds
  ⇒ Factory settings have been restored

**INFORMATION**
**With a factory reset, all SOMlink settings are also deleted.**

## 9.2 Reset via triplex sensing device on the control unit housing

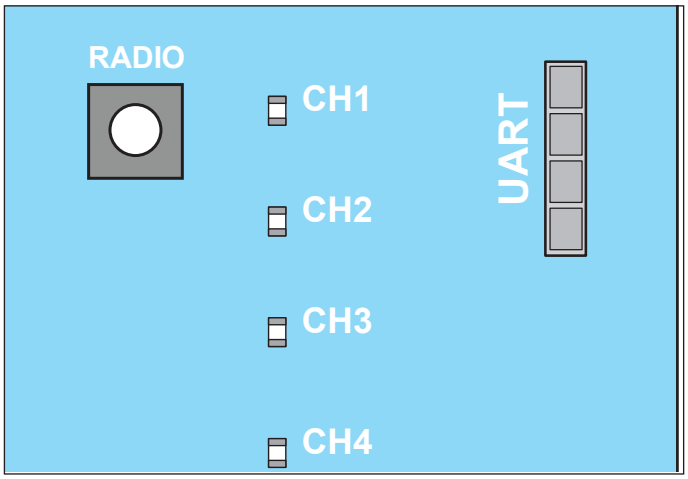
**INFORMATION**
**This type of reset deletes only the end positions and information on the motor direction. All other information is retained.**



1. Press all 3 keys of the triplex sensing device simultaneously for about 30 seconds.
   ⇒ Saved information on the end positions and the motor direction will be deleted.
   ⇒ After about 30 seconds, the message LED on the operator goes out.
2. Release the keys.
   ⇒ The message LED on the operator blinks slowly.

# 10. Radio

## 10.1 Radio




### Radio channels

| | Channel 1 | Channel 2 | Channel 3 | Channel 4 |
|---|---|---|---|---|
| **Radio mode 1** | Pulse control | Partial opening* / switch MUFU** | OPEN | CLOSE |

*Channel 2 can only be used for partial opening if dip switch 2 is in ON position.
**Can only be activated via SOMlink

## 10.2 Programming the transmitter

**INFORMATION**
**If no transmission command is received within 30 seconds after pressing the Radio button, the radio receiver switches to normal mode.**

1. Press the Radio button repeatedly to select the required channel.

| LED | 1 x | 2 x | 3 x | 4 x |
|---|---|---|---|---|
| CH 1 | ■ | ⌐ | ⌐ | ⌐ |
| CH 2 | ⌐ | ■ | ⌐ | ⌐ |
| CH 3 | ⌐ | ⌐ | ■ | ⌐ |
| CH 4 | ⌐ | ⌐ | ⌐ | ■ |

2. Press the desired button on the transmitter until the previously selected LED (CH 1, CH 2, CH 3, CH 4) goes out.
   ⇒ Programming has been completed.
3. Repeat the above steps to program additional transmitters.

**If the memory capacity has been reached**
A total of 40 handheld transmitter commands are available for all channels. If an attempt is made to program additional transmitters, the red LEDs of radio channels CH 1 - CH 4 flash. If more memory positions are needed, see Chapter **"10.9 Information on Memo."**

**INFORMATION**
**Delete the Memo on a new operator. Otherwise, all stored transmitters of an operator are deleted and must be reprogrammed.**

## 10.3 Cancelling programming mode

1. Press the Radio button until all LEDs are off or make no input for 30 seconds.
   ⇒ Programming mode is cancelled.

## 10.4 Deleting a transmitter button from the radio channel

1. Press the Radio button repeatedly to select the required radio channel.
   Press and hold the Radio button for 15 seconds.

| LED | 1 x | 2 x | 3 x | 4 x |
|---|---|---|---|---|
| CH 1 | ■ | ⌐ | ⌐ | ⌐ |
| CH 2 | ⌐ | ■ | ⌐ | ⌐ |
| CH 3 | ⌐ | ⌐ | ■ | ⌐ |
| CH 4 | ⌐ | ⌐ | ⌐ | ■ |

   ⇒ The LED blinks after 15 seconds.
2. Release the Radio button.
   ⇒ The radio receiver is now in deletion mode.
3. Press the transmitter button for which the radio command is to be deleted in the radio channel.
   ⇒ LED goes out.
   ⇒ The deletion procedure is ended.

Repeat the process for additional buttons as required.

# 10. Radio

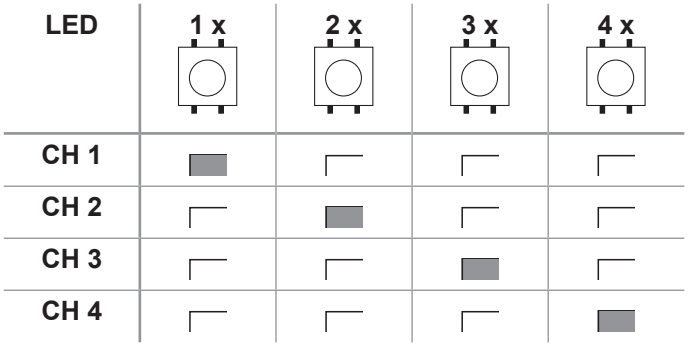
## 10.5 Deleting transmitter completely from the receiver

1. Press and hold the radio button for 20 seconds.
   ⇒ The LED blinks after 15 seconds.
   ⇒ After another 5 seconds, the flash sequence changes to flashing.
2. Release the Radio button.
   ⇒ The radio receiver is now in deletion mode.
3. Press any button on the transmitter that is to be deleted.
   ⇒ LED goes out.
   ⇒ The deletion procedure has been completed.
   ⇒ The transmitter is deleted from the radio receiver.

Repeat the process for additional transmitters as required.

## 10.6 Deleting a radio channel in the receiver

1. Press the Radio button repeatedly to select the required radio channel.
   Press and hold the Radio button for 25 seconds.




   ⇒ The LED blinks after 15 seconds.
   ⇒ After another 5 seconds, the flash sequence changes to flashing.
   ⇒ After another 5 seconds, the LED of the selected radio channel remains steady.
2. Release the Radio button.
   ⇒ The deletion procedure is ended.
   ⇒ All programmed transmitters on the selected radio channel are deleted from the radio receiver.

## 10.7 Deleting all radio channels in the receiver

1. Press and hold the Radio button for 30 seconds.
   ⇒ The LED blinks after 15 seconds.
   ⇒ After another 5 seconds, the flash sequence changes to flashing.
   ⇒ After another 5 seconds, the LED of the selected radio channel remains steady.
   ⇒ After another 5 seconds, all LEDs light up.
2. Release the Radio button.
   ⇒ All LEDs are off after 5 seconds.
   ⇒ All programmed transmitters are deleted from the receiver.
   ⇒ Receiver is completely deleted; this also applies if the Memo is plugged in.

# 10. Radio

## 10.8 Programming a second handheld transmitter by radio (HFL)

### Prerequisites for programming by radio

A handheld transmitter must already be programmed on the radio receiver. The handheld transmitters used must be identical. This means, for example, that a Pearl can only be programmed on a Pearl and a Pearl Vibe on a Pearl Vibe.

The key assignment of handheld transmitter (A) that put the radio receiver into programming mode by radio is used for the new handheld transmitter (B) that is to be programmed. The already-programmed transmitter and the new transmitter to be programmed must be situated within the range of the radio receiver.

### Example:

1. Button 1 has been programmed to radio channel 1 and button 2 to radio channel 2 by handheld transmitter (A).
   ⇒ The newly-programmed transmitter (B) adopts the button assignment of transmitter (A): Button 1 to radio channel 1 and button 2 to channel 2.

### Restriction

The following setting is **not** possible:

- targeted programming of a selected handheld transmitter button to a radio channel

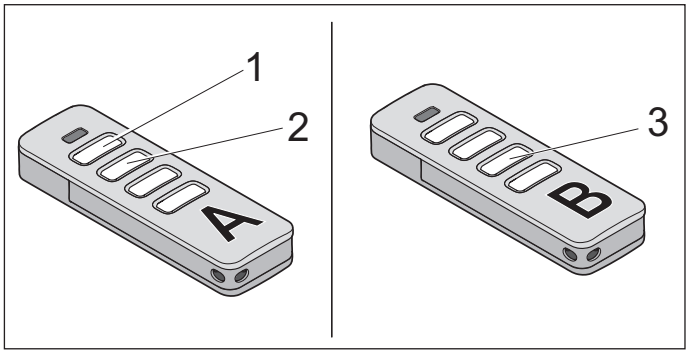


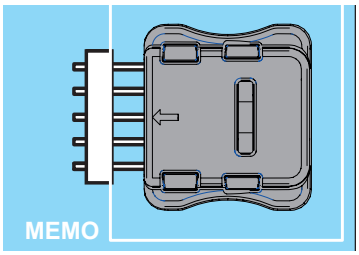

Fig. 1

1. Press buttons 1 + 2 of a programmed handheld transmitter (A) for 3 - 5 seconds until the LED on the handheld transmitter briefly light up.
   ⇒ The operator lighting flashes.
2. Release buttons 1 and 2 of handheld transmitter (A).
   ⇒ If **no** radio command is transmitted within another 30 seconds, the radio receiver switches over to normal mode.
3. Press any button, e.g. (3) on the new handheld transmitter (B) to be programmed.
   ⇒ The LEDs of the operator lighting remain steady.
   ⇒ The second handheld transmitter (B) has been programmed.

## 10.9 Information on Memo

**INFORMATION**

**The memory capacity can be extended to 450 handheld transmitter commands using the optional Memo accessory part. When plugging in the Memo, all available transmitters are transferred from the internal memory to the Memo and stored there. The Memo must remain plugged in on the control unit.**
**No more transmitters are then stored in the internal memory. Stored transmitters cannot be transferred from the Memo back to the internal memory.**




Plug the Memo into the slot on the board.

⇒ Any radio commands already programmed are transferred to the Memo

⇒ Memory space for a total of 450 radio commands is now available.

All radio channels, including the memory of the Memo, can be deleted, see Chapter **"10.7 Deleting all radio channels in the receiver."**

**INFORMATION**

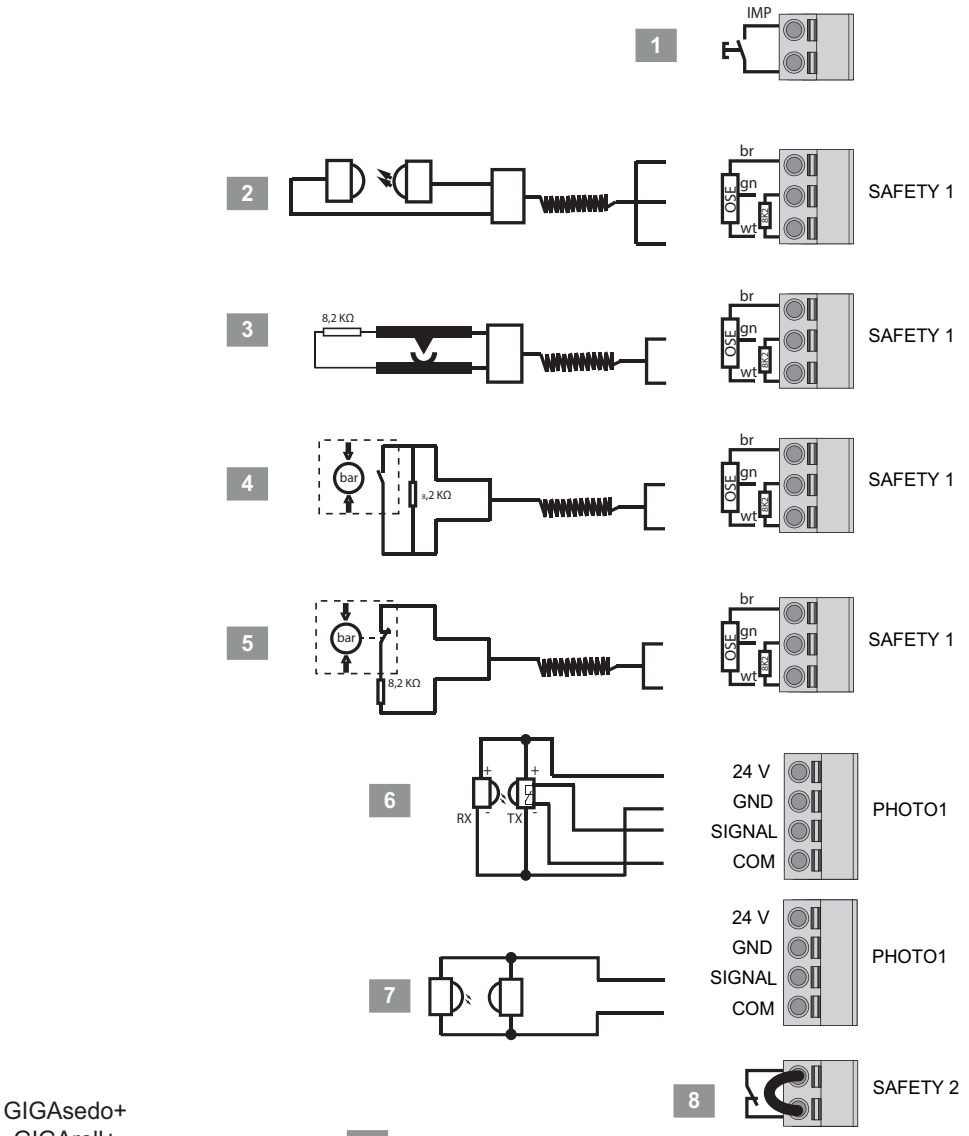
**Delete the Memo on a new operator. Otherwise, all stored transmitters of an operator are deleted and must be reprogrammed.**

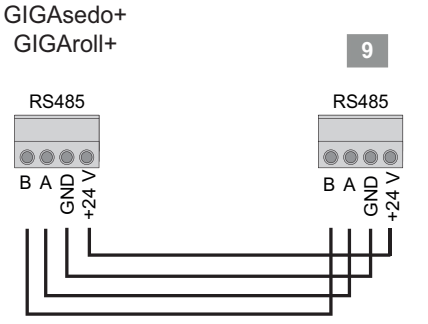
# 11. Troubleshooting

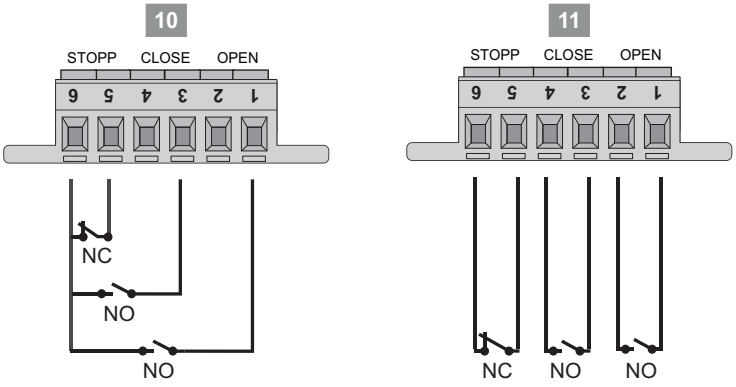
## 11.1 Troubleshooting table

| Problem | Possible cause | Test/check | Remedy |
|---|---|---|---|
| Gate does not move | Emergency release active | Message LED on the operator blinks 3 times | Switch emergency release off |
| Gate does not close in automatic mode | • Check SAFETY 1 connection (see status LED next to the terminal) | • Check SAFETY 1 connection (see status LED next to the terminal) | Connect safety device for the main closing edge to SAFETY 1 or restore function. |
| Automatic closing function not possible | PHOTO 1 is not connected or defective | Check PHOTO 1 connection (see status LED next to the terminal) | Connect photocell to PHOTO 1 or restore function. |
| Gate reverses after reaching gate CLOSE end position | Pre-end position switch range not set (DIP switch 3 to OFF) | | • Set pre-end position switch range, see "**Page 30**" |
| Gate reverses after reaching frame photocell | • Frame photocell incorrectly programmed | | Reset end positions with connected frame photocell, see "**Page 27**" |
| Operator does not reverse when SAFETY 1 is triggered | Pre-end position switch range incorrectly set | SAFETY 1 is not connected or defective | • Set pre-end position switch range correctly (max. 5 cm from gate CLOSE end position). |
| Operator unintentionally in dead man mode | Dip switch 3 is in ON position and pre-end position switch range was not yet confirmed with the STOP button | | Confirm pre-end position switch, see "**Page 30**" |
| | | | |
| | | | |
| | | | |

# 12. Connection diagram



# 12. Connection diagram

| | |
|---|---|
| 1) | External command device (pulse button) |
| 2) | Optical safety contact strip (OSE), light curtain or leading photocell* |
| 3) | 8k2 safety contact strip* |
| 4) | Air wave switch Version 1** |
| 5) | Air wave switch Version 2 ** |
| 6) | 4-wire photocell without testing*** |
| 7) | 2-wire photocell or frame photocell*** |
| 8) | Slack wire switch or wicket door contact |
| 9) | Cable connection to the operator |
| 10) | External command device (3-function pad) |
| 11) | External command device (3-function pad) |

*

**INFORMATION**
**The control unit must be reset each time a safety device is subsequently connected, see "Reset and factory settings" on page 31.**

**

**INFORMATION**
**To test the air wave switch, it must be triggered in gate CLOSE end position.**

**INFORMATION**
**In order to use a connected air wave edge, dip switch 4 must be in "ON " position. See "8.3.4 DIP switch 4: Setting the safety edge" on page 30.**

***

**INFORMATION**
**► SOMMER products only**
**► Maximum installation height 300 mm.**

**INFORMATION**
**Photocells which are integrated in the gate frame (frame photocells) and require disabling during passage of the gate must be detected during setting of the end positions, see "Detecting the motor direction and setting the end positions" on page 27.**

**If the frame photocell is retrofitted, the end positions must be reset, see "Detecting the motor direction and setting the end positions" on page 27.**

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