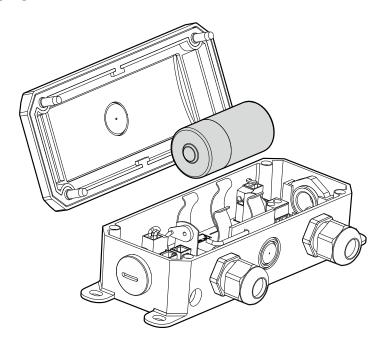


Installation Instructions

WSD door- module 2,4 GHz

Model: 30005154



-en-

51171746_00002_c Status: 04/2023



Safety-relevant chapter

Explanation of symbols

The following symbols are used in these installation instructions:

A DANGED

Safety note: Non-compliance will result in death or severe injury.

^

Safety note: Non-compliance can result in death or severe injury.

A CALITICAL

Safety note: Non-compliance can result in injury.

NOTICE

Note: Non-compliance can result in material damage and impairment of product functionality.

i NOTE

Note: Points out useful additional information.

Target audience of these installation instructions

These installation instructions are geared towards qualified persons trained in the handling of door systems. Expert knowledge, relevant skills and practical experience are what set apart qualified persons. They are capable of safely carrying out the tasks involving installation, maintenance and modernisation according to the instructions.

Intended use

The WSD door-module is intended to connect a safety edge system to the TS971 door control. The WSD door-module is to be protected from rain, moisture and aggressive ambient conditions.

The WSD system is suitable for electrical (with 8k2 end of line resistor), pneumatic (with 1k2 end of line resistor) and optical safety edges.

Two slack-rope switches and one pass-door switch can be connected.

The WSD door-module has cross-fault monitoring.

Cross-fault monitoring: Electronic monitoring of a short circuit between two wires inside a cable by measuring the resistance.

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Installation

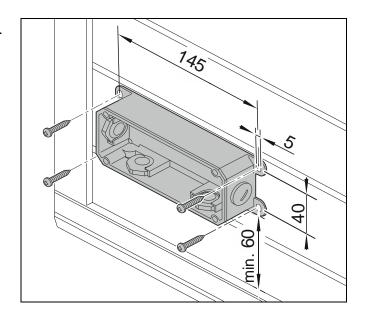
A WADNING

Danger due to uncontrolled door movement.

- Carry out the following work only when the power supply is switched off.
- Lock the door to through traffic while working.

Installation on the door

- Remove the cover from the door leaf box.
- Screw the door leaf box onto the door leaf.



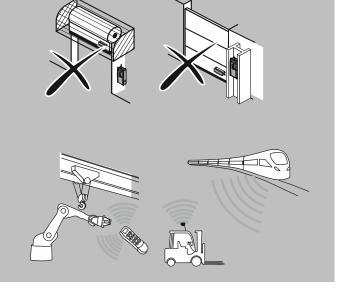
NOTICE

Observe the following notes for selecting the place of installation:

Mount the WSD door-module as close to the door control as possible.

The WSD door-module should not be obscured by obstacles at stop and during movement (holes in the ground, crane runways, concrete or steel pillars, shelves, etc.)

Radio systems may be affected by other radio systems or EMC radiation. In case of frequent interferences, changing the channel may help. Should interferences occur more frequently despite the channel change, the system must be replaced by a wired system.



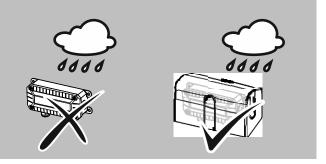


NOTICE

Damage due to moisture!

In humid areas, use the cover to protect the door leaf boxes.

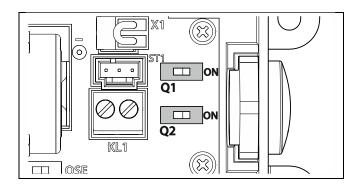
Covers are available as accessories:
 Part no.: 40017478.00001



Set switches Q1 and Q2

You will find the switches Q1/Q2 on the board. Q1/Q2 are used to switch the cross-fault monitoring (see page 2 for definition) of the slack-rope and pass-door switches.

Select the required setting from the following table.



No.	Door control	Slack-rope switch	Pass-door switch	Q1	Q2
1	TS 971 with software	Switch with an integrated resistor	Switch with an integrated resistor 1)	On	On
2	version 3.0 or higher		Switch without an integrated resistor ²⁾ or no switch present	On	Off
3		Switch without an integrated resistor <i>or</i> no switch present	Switch with an integrated resistor 1)	Off	On
4			Switch without an integrated resistor ²⁾ or no switch present	Off	Off
5	TS 971 up to and including software version 2.9	Switch without an integrated resistor <i>or</i> no switch present (see Note 1)	Switch without an integrated resistor ²⁾ or no switch present (see Note 1)	On	On
6	Door controls from other manufacturers	See Note 2			

Table: Setting Q1 and Q2

i NOTE

Note 1: Slack-rope or pass-door switches with an integrated resistor cannot be used with GfA door controls up to and including software version 2.9 or older controls from other series.

Note 2: If you are using door controls from another manufacturer, check the associated documentation for information on connecting the door safety switches. For door controls without cross-fault monitoring, line no. 5 applies accordingly.

¹⁾ e.g., Model Fraba black or Alpha Deuren black

²⁾ e.g., Model Fraba light grey or Alpha Deuren light grey

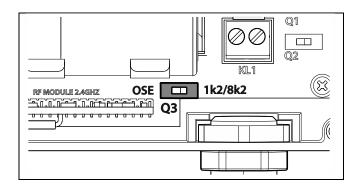




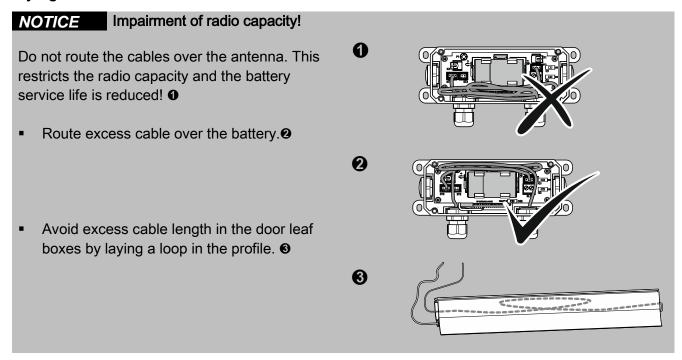
Set switch Q3

Use switch Q3 to select the type of safety edge.

Safety edge type	Switch position
Optical	left
Pneumatic	right
Electrical	right



Laying the cables



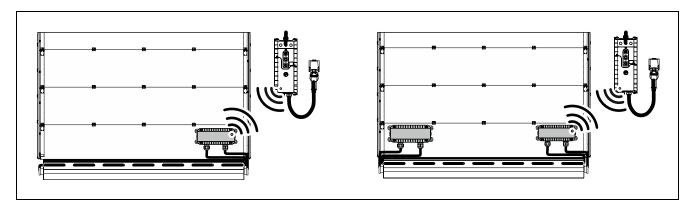
System overview

The available connection options are described below.

System 1 With one door leaf box.

System 2 With 2 door leaf b

With 2 door leaf boxes, connected by one cable.



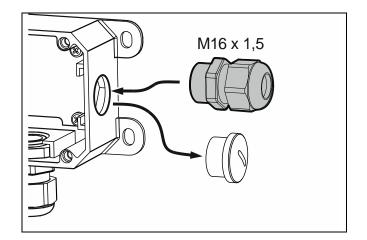




Insert cable glands

The WSD door-module is set up for connecting two slack-rope switches and one pass-door switch.

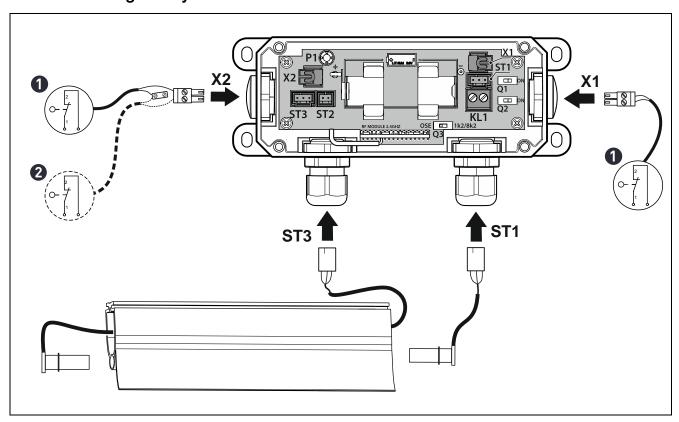
 If you want to install a pass-door or slackrope switch, replace the side covers with M16 x 1.5 cable glands.



i NOTE

Please note that only switches with performance level c (PLc) comply with the current DIN EN 12453 standard.

Connection diagram System 1: OSE



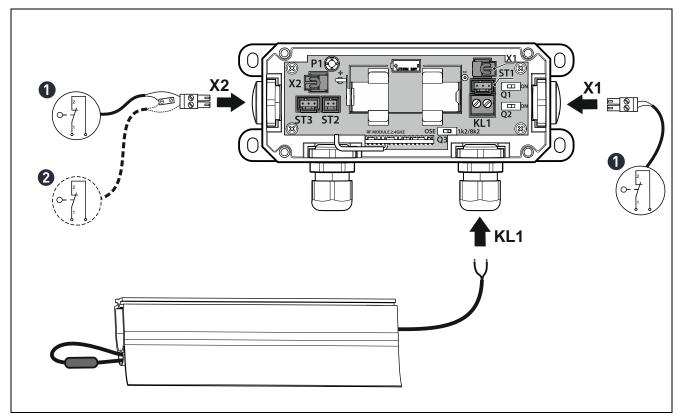
Slack-rope switch
Pass-door switch

i *NOTE*

Clamping range of the plug-in terminal for slack-rope and pass-door switches: 0.5 - 1.5mm². Stripping length of the single conductors: 6.5 - 7mm, provided with wire end ferrules.



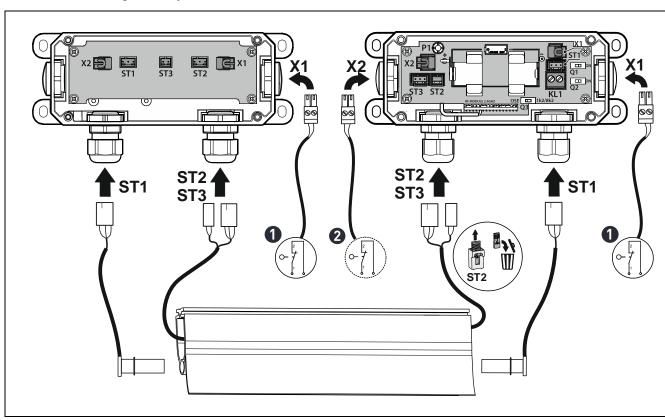
Connection diagram System 1: 1k2 and 8k2



Slack-rope switch

Pass-door switch

Connection diagram System 2: OSE





◆ Slack-rope switch
◆ Pass-door switch



Finish installation

- Fit the cover of the junction end box.
- Switch on the voltage.



i *NOTE* Damage due to moisture

Make sure that the screws and cable glands are tightened.

Insert battery

The WSD door-module is powered by a battery. The battery life depends on the safety edge system (optical, electrical), frequency of use and the size of the door, and is usually more than 1 year. Replace the batteries during the annual maintenance of the door system.

A DANGED

Do not attempt to charge the battery.

Do not short-circuit the battery.

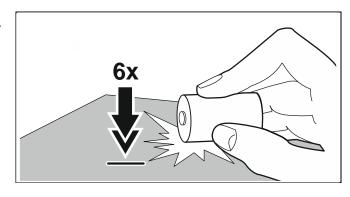
Do not disassemble or deform the battery.

Do not heat the battery. Store the battery in a cool and dry place.

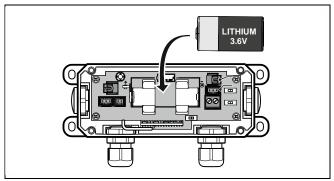
A CALITION

Before inserting the battery, check the contact terminals of the WSD gate door-module. Only insert the batteries if they are clean and dry and not deformed.

- The battery must be depassivated before use.
 Tap the battery about 6 times on a hard level surface.
- Tap only on the side surface, not on the battery contacts.



Insert the battery.

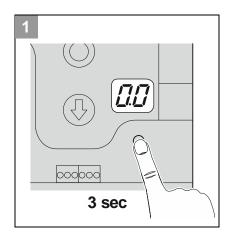


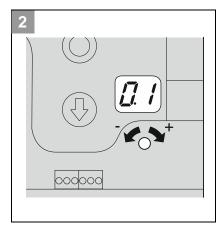


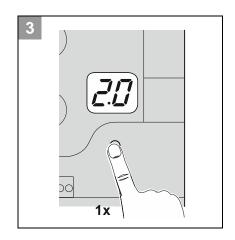


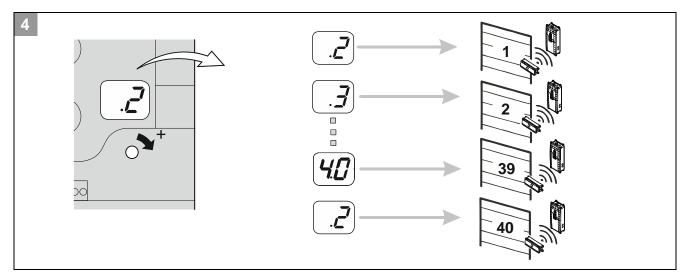
Teach-in of WSD door-module

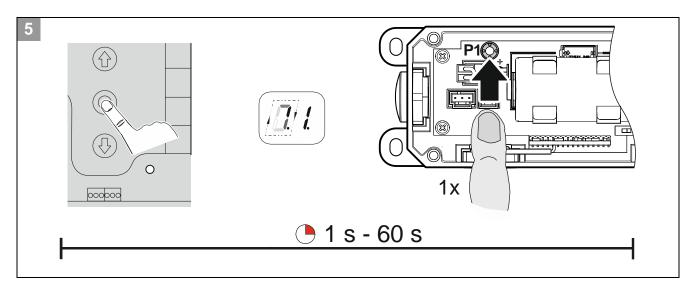
The following describes how to teach-in the WSD door-module on the door control. Also follow the instructions for the door control. Assign a different radio channel to each door. Note the channels in the door control housing to facilitate maintenance. Also observe the notes for selecting the channel on the following pages.



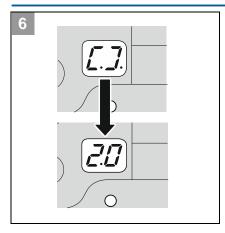


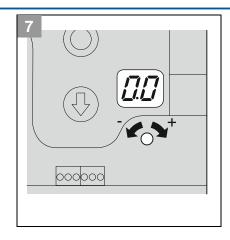


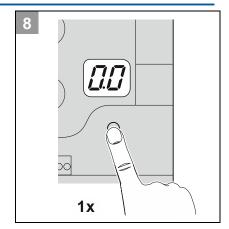












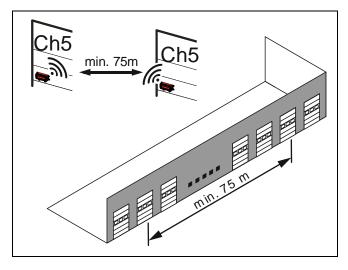
The WSD door-module is now taught-in. Check the function of the safety edge system.

Selecting the channels

- From door 40, channels are assigned in duplicate. Duplicate radio channels must be as far apart as possible. Plan in advance and draw a hall plan.
- Consequently, if the channels are set incorrectly, the error 1.6 appears on the door control.

TS 971 > SW 1.8 = 39 channels TS 971 < SW 1.8 = 20 channels

Also note the following frequency table:



Channel	Frequency MHz
2	2400
22	2402
3	2404
23	2406
4	2408
24	2410
5	2412
25	2414
6	2416
26	2418
7	2420
27	2422
8	2424

Channel	Frequency MHz
28	2426
9	2428
29	2430
10	2432
30	2434
11	2436
31	2438
12	2440
32	2442
13	2444
33	2446
14	2448
34	2450

Channel	Frequency MHz
15	2452
35	2454
16	2456
36	2458
17	2460
37	2462
18	2464
38	2466
19	2468
39	2470
20	2472
40	2474
21	2476

Table: Frequency overview



Disposing of old devices and batteries



Old devices and batteries marked with the adjacent symbol must not be disposed of with unsorted household waste.

Dispose of old devices and batteries appropriately in accordance with local regulations. Take old devices and batteries to the recycling and collection systems at your location. You can also return GfA products free of charge. Please apply enough postage to the package and mark it as "old devices".

i *NOTE* Lithium-metal battery!

The product contains an individually packed lithium-metal battery. According to the safety data sheet, the lithium content is less than 0.5 g. The batteries are protected against short circuit and must not come into contact with conductive metal.

TRANSPORTATION NOT RESTRICTED - NON-DANGEROUS GOODS.

(According to Special Provisions SP 188 ADR/RID/IMDG-Code.IATA Packing Instruction 968 Part I for lithium-metal batteries.)

- Handle the batteries with care.
- In case of damage the batteries must be disposed of properly.

Declaration of incorporation

within the meaning of Machinery Directive 2006/42/EC for partly completed machinery, Appendix II Part B

Declaration of conformity

within the meaning of EMC Directive 2014/30/EU within the meaning of RoHS Directive 2011/65/EU within the meaning of RED Directive 2014/53/EU



GfA ELEKTROMATEN GmbH & Co. KG Wiesenstraße 81 · 40549 Düsseldorf Germany

We.

GfA ELEKTROMATEN GmbH & Co. KG

declare under our sole responsibility that the following product complies with the above directives and is only intended for installation in a door system.

WSD door-module

Part no.: 30005154

Standards applied:

EN 60335-2-103:2015

EN 61000-6-2:2005

EN 61000-6-3:2007

EN 300328-2:2017

Stephan Kleine

CEO

Signature

Düsseldorf, 09.03.2023

Declaration of conformity

within the meaning of Electromagnetic Compatibility Regulations 2016 within the meaning of Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2021 within the meaning of Radio Equipment Regulations 2017



Declaration of incorporation

within the meaning of Supply of Machinery (Safety) Regulations 2008 for partly completed machinery, Appendix II Part B



We,

GfA ELEKTROMATEN GmbH & Co. KG

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WSD- door module

Part no.: 30005154

Applied Standards:

BS EN 60335-2-103:2015

BS EN 61000-6-2:2005

BS EN 61000-6-3:2007

BS EN 300328-2:2017

Authorised representative:

Andrew Collett

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Stephan Kleine

CEO

Signature

Düsseldorf, 09.03.2023