



Roto Safe E

Cable junction

Matching hardware technology everything about doors

Contact

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1 General information

1.1 Additional information to be noted

For other mandatory components (locking side, frame components, etc.) and information (target groups, safety, maintenance, transport, disposal), see the other applicable documents.



INFO

These instructions are incomplete.

The other applicable documents for these instructions are:

- Roto Safe E | E610 – Eneo CC and E611 – Eneo CF: IMO_438
- Roto Safe E | E700 – Eneo A: IMO_506

Failure to observe this documentation discharges the hardware manufacturer from their liability.

1.2 Instructions

This manual contains important information, instructions, application diagrams (max. sash sizes and weights) and assembly instructions for the installation, maintenance and operation of hardware.

The information and instructions contained in this document refer to products belonging to the Roto hardware system named on the front page.

All steps must be completed in sequence.

The following documents apply in addition to these instructions:

Catalogue

- Roto Safe: CTL_86

Installation instructions

- Roto Safe E | E610 – Eneo CC and E611 – Eneo CF: IMO_438
- Roto Safe E | E700 – Eneo A: IMO_506
- Connection diagrams: Roto Safe E | Eneo: IMO_310

Quick guide

- Power supply unit specifications: SUG_3

Additional guidelines and directives

- Instructions and information relating to the individual hardware,
- Instructions and information issued by profile manufacturers (e.g. manufacturers of windows and balcony doors),
- The applicable regulations, directives and national laws.

Storing the instructions

These instructions are an important part of the product. The instructions must be stored so that they are always to hand.

Explanation of the markings

The manual uses the following markings for emphasis (e.g. in figures or instructions):

Marking	Meaning
	Optional / alternative components seated in the sash
	Sash / components seated in the sash
	Optional / alternative components seated in the frame
	Frame / components seated in the frame
	Drill holes, routing, screw positions
	Unaffected components / indirectly affected components
	Components, arrows or movements that have just been described
	Item number
[1]	Legend
[A]	Steps



INFO

Any dimensions without a unit in the instructions are given in millimetres (mm). Other units of measurement are clearly indicated by the presence of the differing unit.



INFO

Figures are provided in the right-hand version (DIN 107).

1.3 Symbols

Symbol	Meaning
■	First-level list
□	Second-level list
→	(Cross-)reference
▷	Result
►	Unnumbered step
1.	Numbered step
a.	Numbered second-level step
⇒	Requirement

1.4 Target groups

The information in this document is directed at the following target groups:

Constructor of the power-operated door

The “Constructor of the power-operated door” target group includes all companies / individuals that connect the door and the drive to each other.

Qualified electrician

The device may only be assembled, installed, commissioned and maintained by suitably trained electricians with the appropriate qualifications.

The electrician must have read and understood this document, as well as the other applicable document, and must follow the instructions.

The qualified electrician must comply with the national regulations that apply in their country (e.g. DIN VDE 0105, EN 50110) with regard to installation, performance testing, repair and maintenance of electrical products and apply them correctly..



1.5 Limitation of liability

All information and instructions contained in this document have been compiled in consideration of the applicable standards and regulations, the latest developments in technology and many years of knowledge and experience.

The hardware manufacturer assumes no liability for damage caused by:

- Failure to comply with this document and all product-specific documents and other applicable directives (see the chapters entitled "Security" and "Stipulated use").
- Improper use / misuse (see the chapters entitled "Security" and "Stipulated use").
- Insufficient invitation to tender, non-compliance with installation specifications and non-compliance with the application diagrams (where available).
- Increased contamination.

Claims made by third parties against the hardware manufacturer on account of damage resulting from misuse or failure to comply with the obligation to give instructions on the part of hardware dealers, window, door and balcony door manufacturers and building element dealers or the builder are passed on accordingly.

The obligations agreed in the delivery contract, the general terms and conditions, the hardware manufacturer's terms and conditions of delivery and the legal provisions applicable when the contract was concluded shall apply.

The warranty only covers original Roto components.

We reserve the right to make technical changes as part of improvement to performance characteristics and further development.

2 Security

This manual contains instructions relating to safety. The principal safety information in this chapter includes information and instructions relevant to the safe use or maintaining the safe condition of the product. Warning instructions that relate to handling warn of residual risks and are located before steps that are relevant to safety.

- Follow all of the instructions in order to prevent personal injury and property and environmental damage.

2.1 Presentation and structure of warning instructions

The warning instructions relate to individual actions and are structured as follows with a warning symbol:



DANGER

Nature and source of the danger.

Explanation and description of the danger and the implications.

- Measures to take to avert the danger.

2.2 Security levels of warning instructions

The warning instructions that relate to handling are identified differently according to the severity of the associated danger. The signal words and the associated warning symbols used are clarified below.



DANGER

Immediate risk of death or serious injuries.

- Observe these warning instructions to avoid personal injuries.



WARNING

Potential risk of death or serious injuries.

- Observe these warning instructions to avoid personal injuries.



CAUTION

Risk of injuries

- Observe these warning instructions to avoid personal injuries.



ATTENTION

Reference to property or environmental damage.

- Observe these warning instructions to avoid property or environmental damage.

2.3 Stipulated use

The cable junctions can be used for supplying power to electrical multipoint locking systems.

The stipulated use also includes compliance with all information contained in the product-specific documentation, such as:

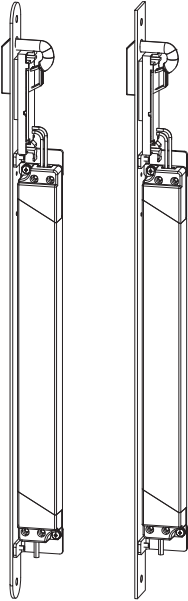
- These installation, maintenance and operation instructions
- Product catalogues
- Information, specifications from profile manufacturers (e.g. light metal profiles, etc.)
- Applicable national laws and directives.



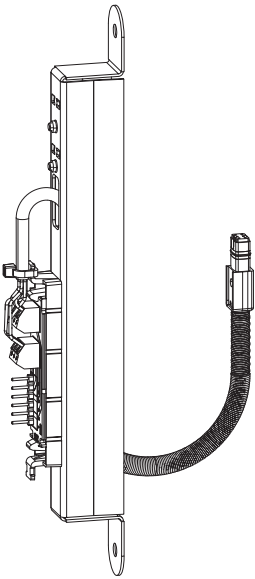
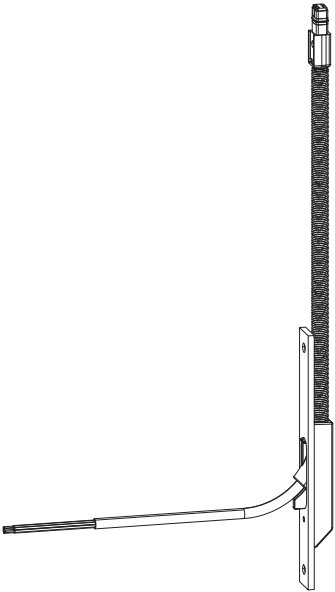
3 Information on the product

3.1 Overview

Frame side

Frame component	Description		Mat. no.
	Properties	<ul style="list-style-type: none">■ 6-pin, detachable plug connection■ Connector side with 4 m cable■ Can be used with timber, PVC and aluminium profiles■ Moulded-on cable■ Operator bracket available■ Without power supply unit■ The join between the frame and leaf has IP67 protection	820187
	Scope of delivery	<ul style="list-style-type: none">■ 1x cable junction	
	Properties	<ul style="list-style-type: none">■ 6-pin, detachable plug connection■ Can be used with timber, PVC and aluminium profiles■ Built-in power supply unit■ Connector side with 3 m cable, can be connected directly to 230 V power supply■ Plug&Play■ Clamp strip for external access control systems■ Voltage check using visible LED■ No ventilation slot required for timber■ The join between the frame and leaf has IP67 protection	2045681 Round face-plate 2045682 Square face-plate
	Scope of delivery	<ul style="list-style-type: none">■ 1x cable junction	

Leaf side

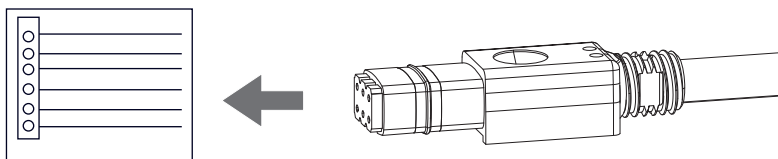
Leaf component	Description		Mat. no.
	Properties	<ul style="list-style-type: none"> ■ 6-pin, detachable plug connection ■ Can be used with timber, PVC and aluminium profiles ■ Moulded-on cable ■ Can be used with a limited rebate clearance ■ Mounting box with plate ■ 180° angle of rotation ■ The join between the leaf and frame has IP67 protection ■ Bush side with loop fitted to mounting box (installation in U-shape) 	820194
	Scope of delivery	<ul style="list-style-type: none"> ■ 1x cable junction ■ 1x set of screws 	
	Required accessories	Cable – type E Cable – type EZ	633291 633292
	Properties	<ul style="list-style-type: none"> ■ 6-pin, detachable plug connection ■ Can be used with timber, PVC and aluminium profiles ■ Moulded-on cable ■ 180° angle of rotation ■ The join between the leaf and frame has IP67 protection ■ Bush side with loop for lengthways installation ■ Preassembled cable with connectors for joining the cable junction, the Eneo multipoint lock and the access control system, length of 0.3 m and 3 m ■ Including cover plate, 16 mm 	820255
	Scope of delivery	<ul style="list-style-type: none"> ■ 1x cable junction ■ 1x set of screws ■ 1x cover plate 	

3.2 Technical data

Technical data for power supply unit Cable junction 2045681 (round), 2045682 (square)	
Cable	H03VV-F 2x 1.5 mm ²
Input	230 V AC; 50 – 60 Hz
Output	24 V DC; 2.1 A DC, 50.4 W
Degree of protection in accordance with DIN 40050	IP67 (when inserted and only the plug connection between leaf and frame)
Temperature range	When idle: -10 °C to +70 °C When moving: -10 °C to +50 °C
Standards	CE conformity

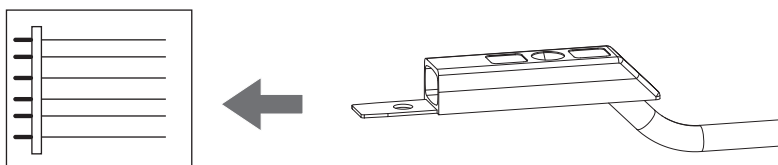
3.3 Bush and connector

Schematic diagram of bush



Cable: LIF9Y11Y, 6 x 0.25 mm²

Schematic diagram of connector

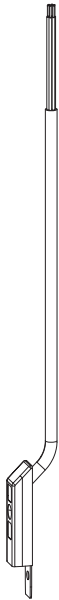


Cable: LIF9Y11Y, 6 x 0.25 mm²

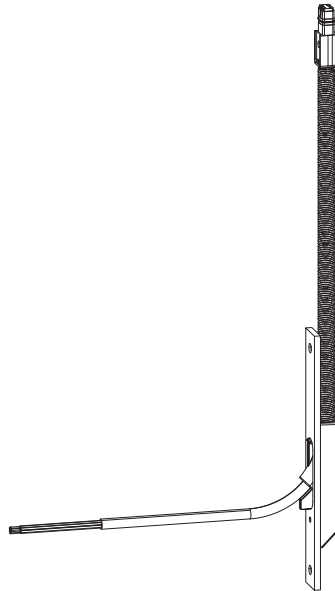
3.4 Overview of versions

Version 1 – rebate clearance 12 / 16 mm

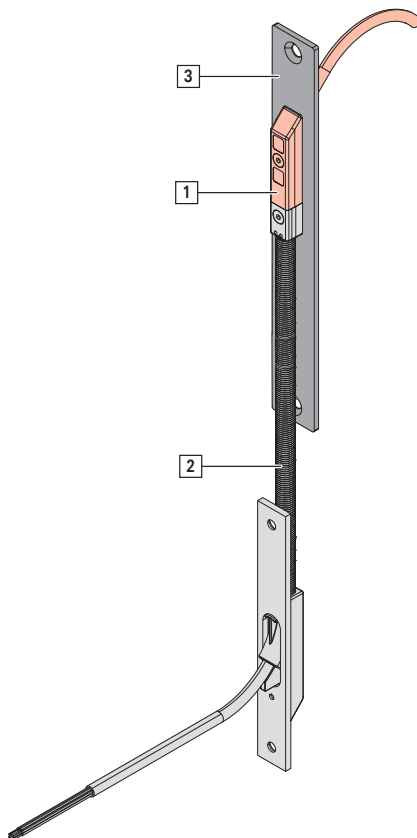
Mat. no. 820187



Mat. no. 820255



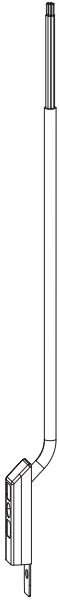
Installation situation



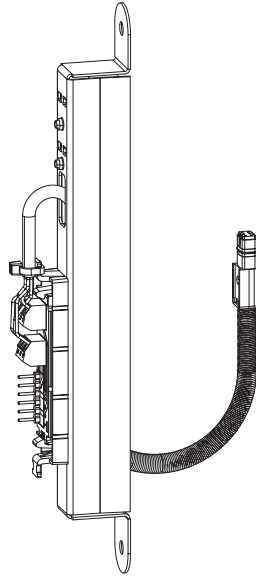
- [1] Frame component
- [2] Leaf component
- [3] Cover plate

Version 2 – rebate clearance 4 / 12 mm

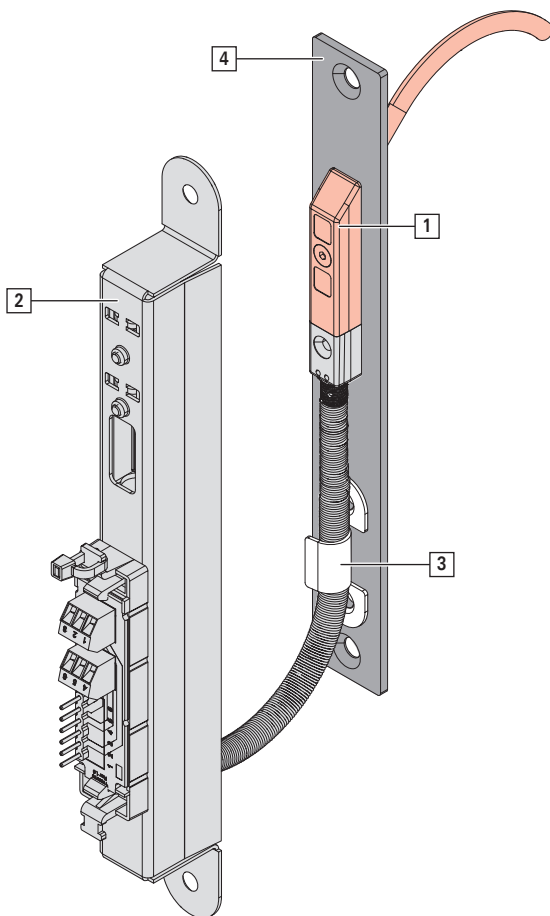
Mat. no. 820187



Mat. no. 820194



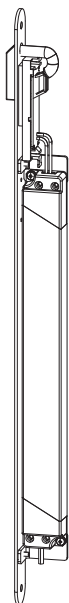
Installation situation



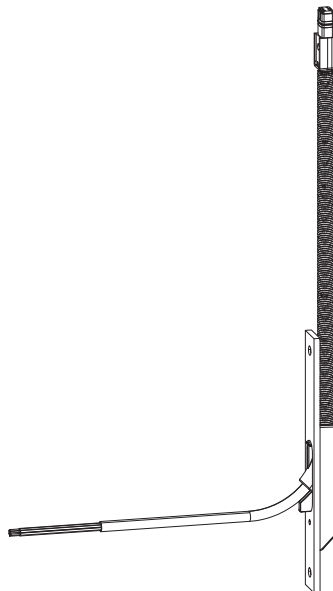
- [1] Frame component
- [2] Leaf component
- [3] Retaining bracket
- [4] Cover plate

Version 3 – rebate clearance 12 / 16 mm

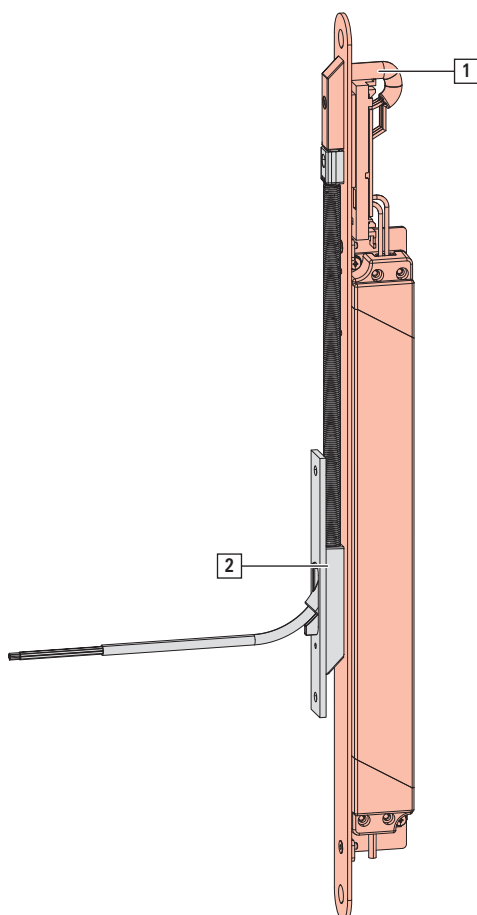
Mat. no. 2045681, 2045682



Mat. no. 820255



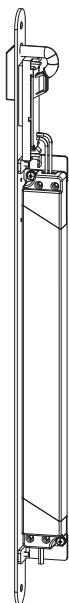
Installation situation



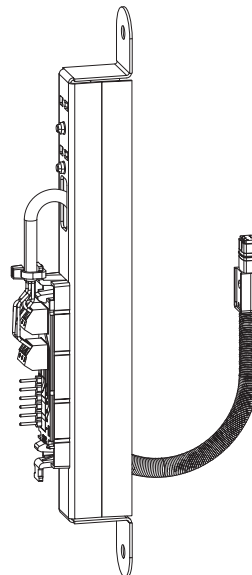
- [1] Frame component
- [2] Leaf component

Version 4 – rebate clearance 4 / 12 mm

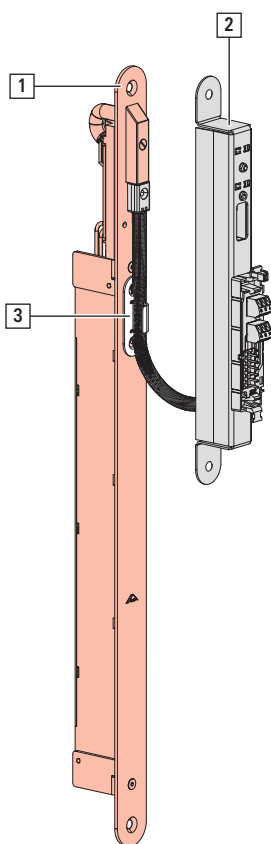
Mat. no. 2045681, 2045682



Mat. no. 820194



Installation situation



- [1] Frame component
- [2] Leaf component
- [3] Retaining bracket

4 Installation

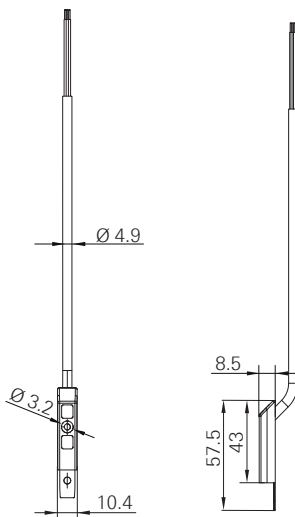
4.1 Processing instructions

- Due to the large number of profiles and hardware variants on the market, it is not possible to make any generally applicable statements about installation, because some of the dimensions of these systems differ.
- Before starting installation, inspect the installation location and the available space in the rebate area.
- Installation location: door frame or door rebate
- Prevent torsion (twisting of the cable) along the entire length of the cable, specifically in the metal spring.
- Drill holes for routing the cable Ø 16. Deburr the drill holes and remove swarf.
- In addition to the generally applicable rules of good engineering practice, the following technical regulations must be complied with, in particular: VDS 2311, VDE 0100.

4.2 Dimensions

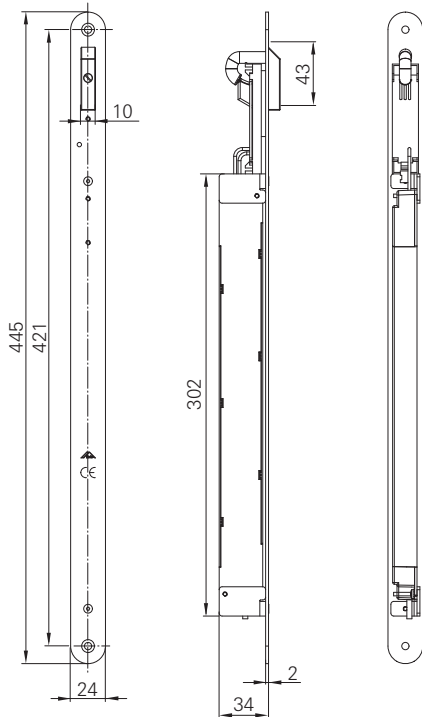
Frame components

Frame side without power supply unit





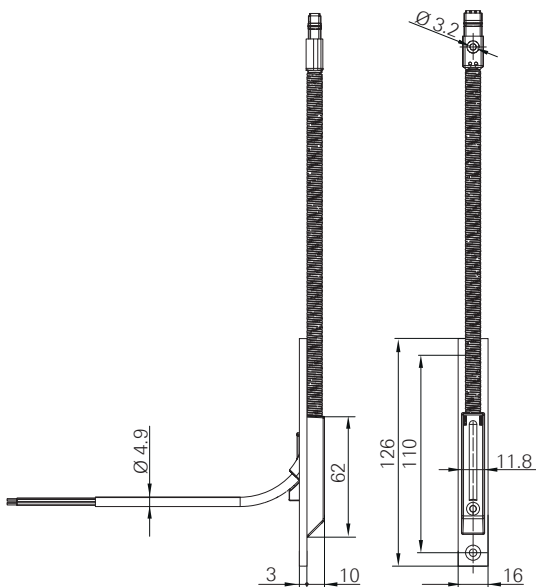
Frame side with power supply unit



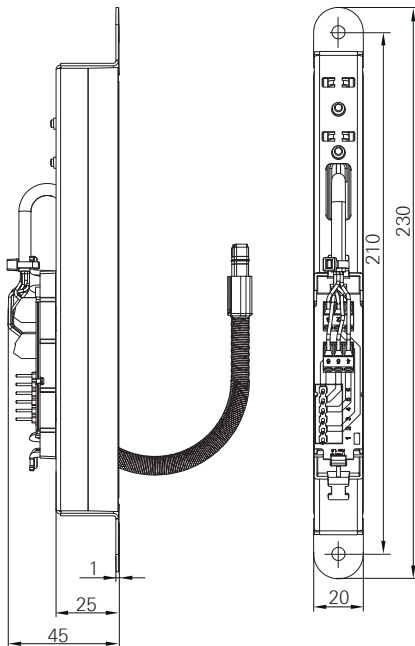
Cable junction with power supply unit with square faceplate (2045682) dimensions identical.

Leaf components

Leaf side without box (lengthways installation)



Leaf side with box (U-shape)



4.3 Drilling and routing dimensions



INFO

The drill holes must be free from burr and swarf.

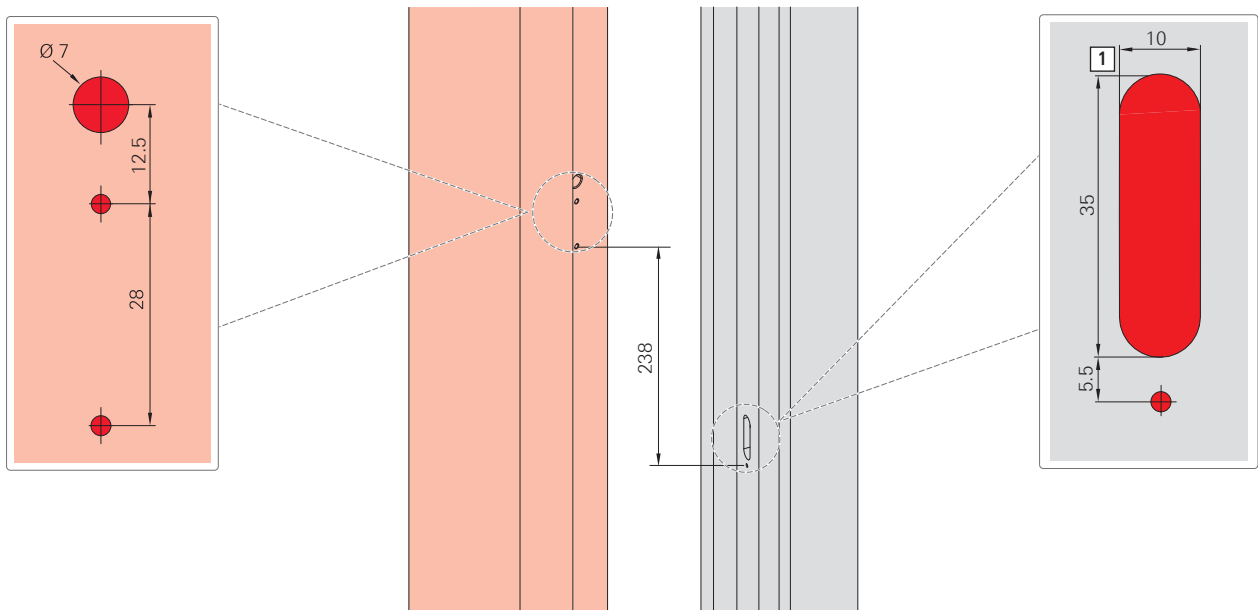


INFO

Only turn in screws by hand.

Recommendation: predrill screw holes.

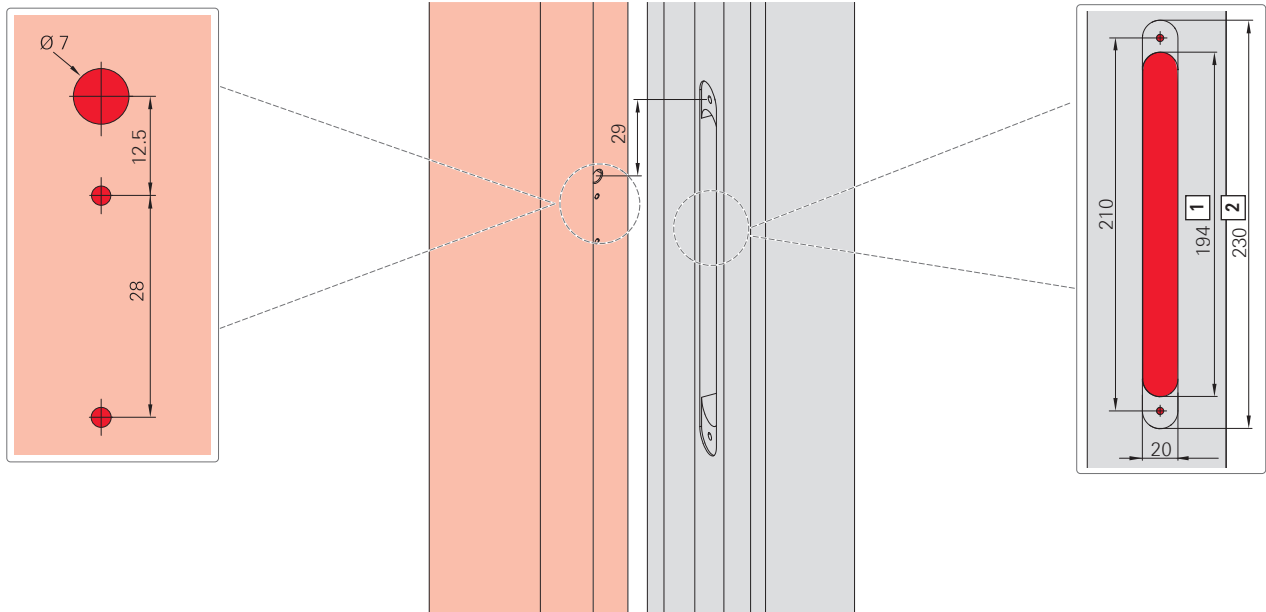
Frame component without power supply unit + leaf component without box



[1] Routing depth: 30 mm



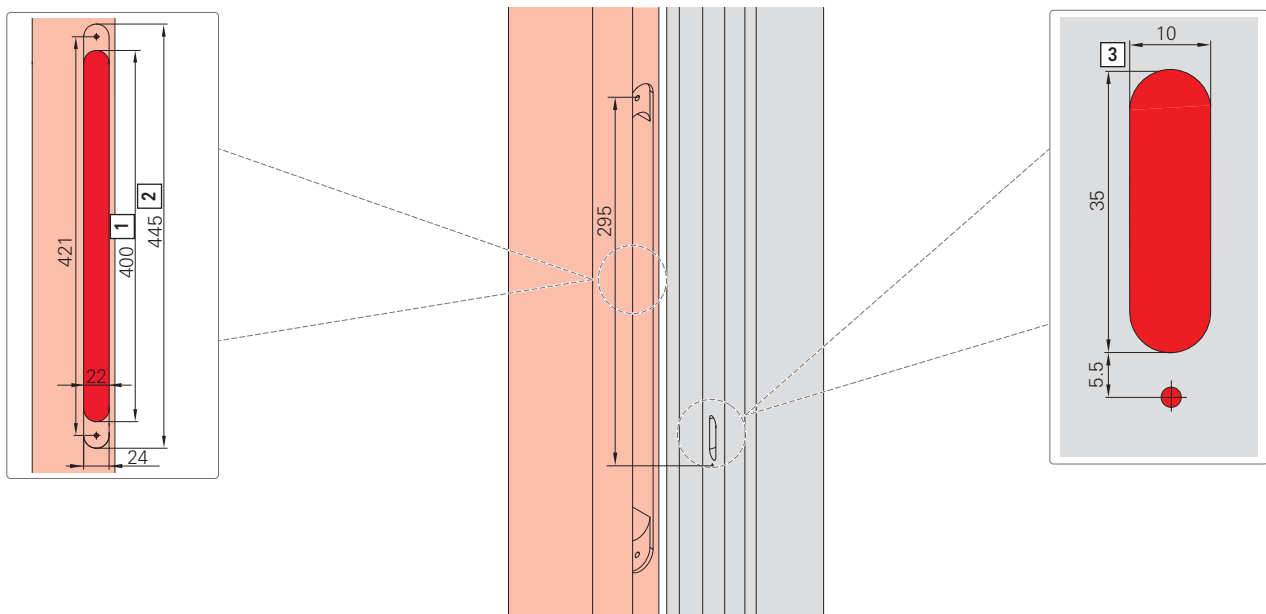
Frame component without power supply unit + leaf component with box



[1] Routing depth: 60 mm

[2] Routing depth: 1 mm

Frame component with power supply unit + leaf component without box

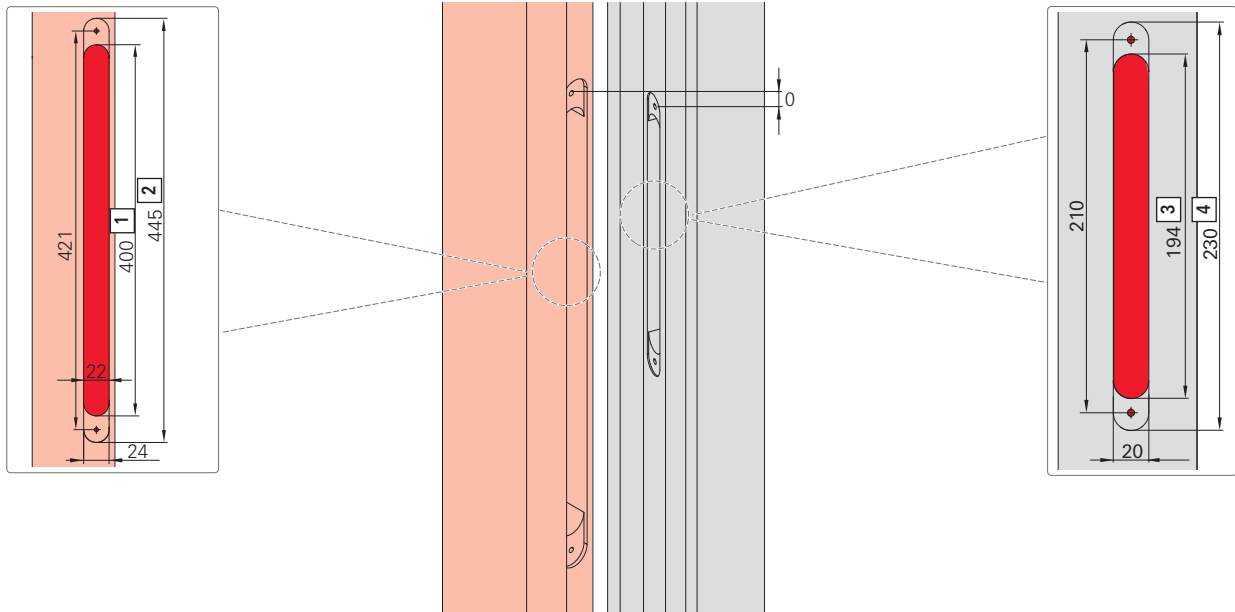


[1] Routing depth: 35 mm

[2] Routing depth: 2 mm

[3] Routing depth: 30 mm

Frame component with power supply unit + leaf component with box



[1] Routing depth: 35 mm

[2] Routing depth: 2 mm

[3] Routing depth: 60 mm

[4] Routing depth: 1 mm

4.4 Installation

1. Carry out the necessary routing and drilling work
→ *from page 18.*



INFO

Only turn in screws by hand.

Predrilling the screw holes is recommended.

2. Guide the cable [1] through the leaf or frame.
Lay a cable loop, ensuring a sufficient length of cable is left over.



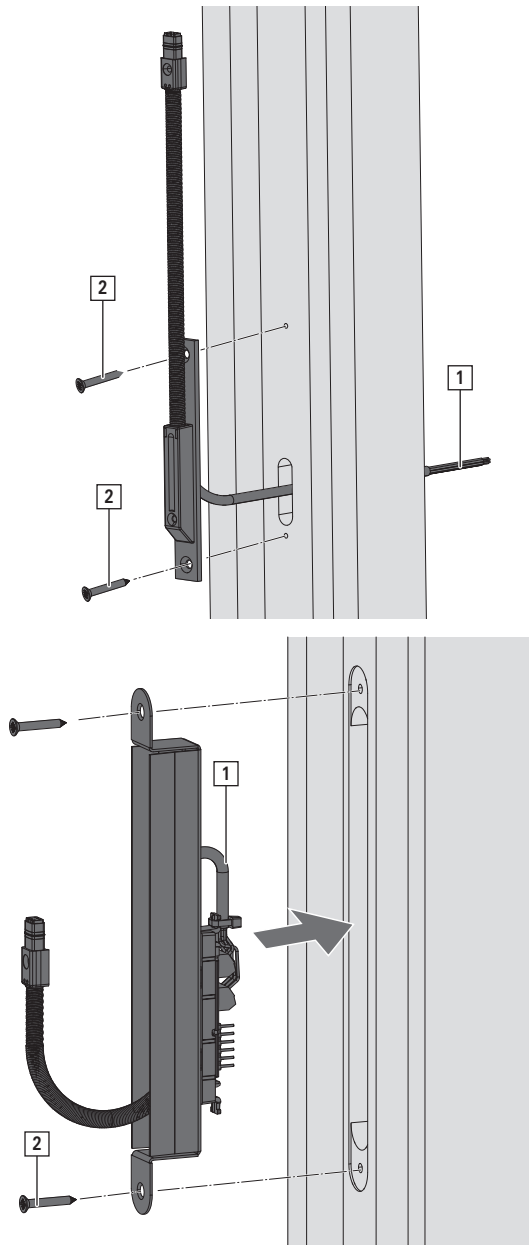
INFO

Do not crush or damage the cable when installing the frame.

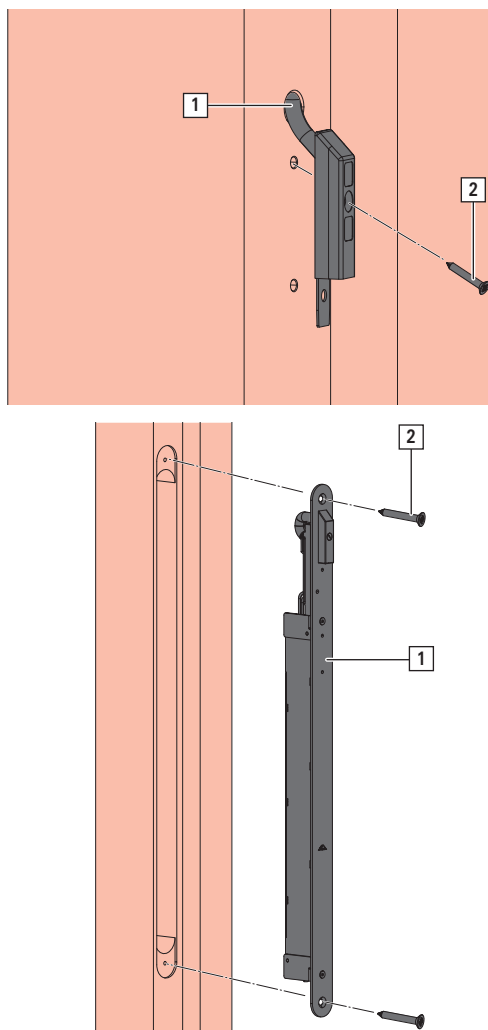


3. Fasten the mounting box with screws [2].

Leaf side



4. **Frame side**



5. Fasten the connector side with a screw.

6. Hinge the leaf and create a plug connection.



ATTENTION
Property damage due to short-circuit.

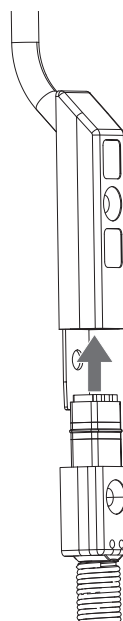
Chips in the connector or bush may cause a short-circuit.

- Keep the connector and bush clean.



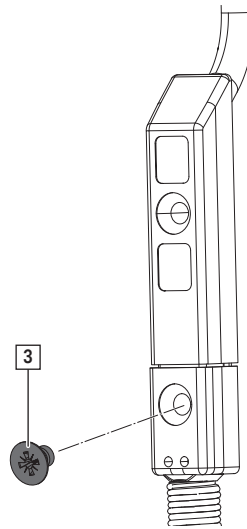
INFO

Note the anti-twist protection of the plug connection.





7. Fasten the plug connection with a screw [3].



8. Check that the cable junction with built-in power supply unit is working properly → *from page 33*.



INFO

Do not exceed the technical values (voltage, current, power) .



INFO

Only an electrician is permitted to connect the frame component with built-in power supply unit (mat. no. 2045681 (round faceplate), 2045682 (square faceplate)) to the 230 V power supply.



DANGER

Risk of death caused by electric shock!

Current can lead to fatal injuries.

- ▶ Take extra care when handling live components.
- ▶ Only an electrician may connect the power supply unit to the mains voltage.
- ▶ Observe and comply with the respective national regulations (in Germany VDE 0100 and others).

5 Connection diagram

The following diagrams are non-binding application examples.

These are only intended to provide guidance for customers and do not represent customer-specific solutions.

Proper operation is the responsibility of the customer.

The customer is obligated to ensure safe installation, use, maintenance and operation. The customer is furthermore obligated to ensure that the equipment is only installed by a qualified electrician; failure to do so may result in a risk of fire or risk of electric shock.

Compliance with the applicable standards and provisions must be ensured at all times; the constructor of the system bears full responsibility for this.

The system must not be operated if compliance with the applicable standards and provisions cannot be ensured.

No guarantee is given for the application examples provided. Roto Frank Fenster- und Türtechnologie GmbH shall assume no liability for damage caused by use of the application examples, unless we are obligated to bear liability in accordance with legal provisions in cases of wilful intent.

Additional connection diagrams: IMO_310



INFO

Installation and maintenance work may only be carried out by a company specialising in electrical systems. There is a risk of death when using a mains voltage of 230 V (or 115 V). Only carry out work when the power supply is disconnected.



INFO

For a cable junction with built-in power supply unit, external components are clamped directly on to the cable junction on the frame. The cable junction must be removed so that you can do this.

To connect external components, connect a 6 x 0.25 mm² cable to the cable junction and route it outwards.

Terminal assignment of cable junction with built-in power supply unit:

Terminal 1 IN1 / input 1 (OPEN)

Terminal 2 +24 V

Terminal 3 GND

Terminal 4 IN2 / input 2

Terminal 5 K1a potential-free contact

Terminal 6 K1b potential-free contact



INFO

Terminals 5 and 6 are connected to one another internally via a relay and a 47 ohm resistor. The maximum load of the contacts is 24 V / 40 mA.

Finger scan cable assignment

(between JST connector and black box)

Brown +24 V

Yellow GND

Green control system (OPEN)



4in1 access control system cable assignment

(between JST connector and black box)

Red +24 V

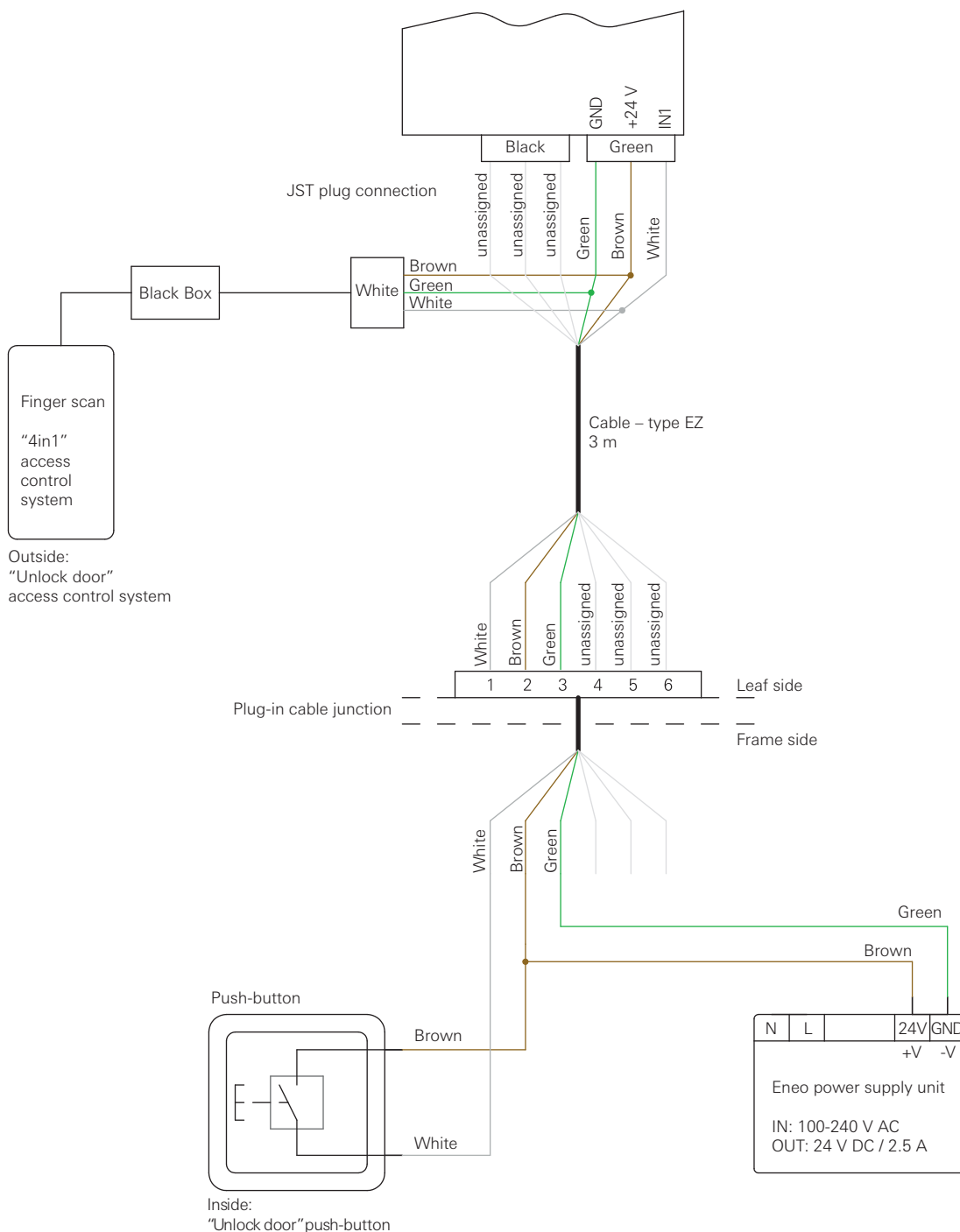
Black GND

Yellow control system (OPEN)

The following basic circuits are used as examples.

5.1 E700 – Eneo A and E700 – Eneo AF

5.1.1 Cable junction without power supply unit



Connection diagram

E700 – Eneo A and E700 – Eneo AF

Cable junction without power supply unit

Connector / cable assignment

White: IN1 / input 1 (OPEN)

Brown: +24 V

Green: GND

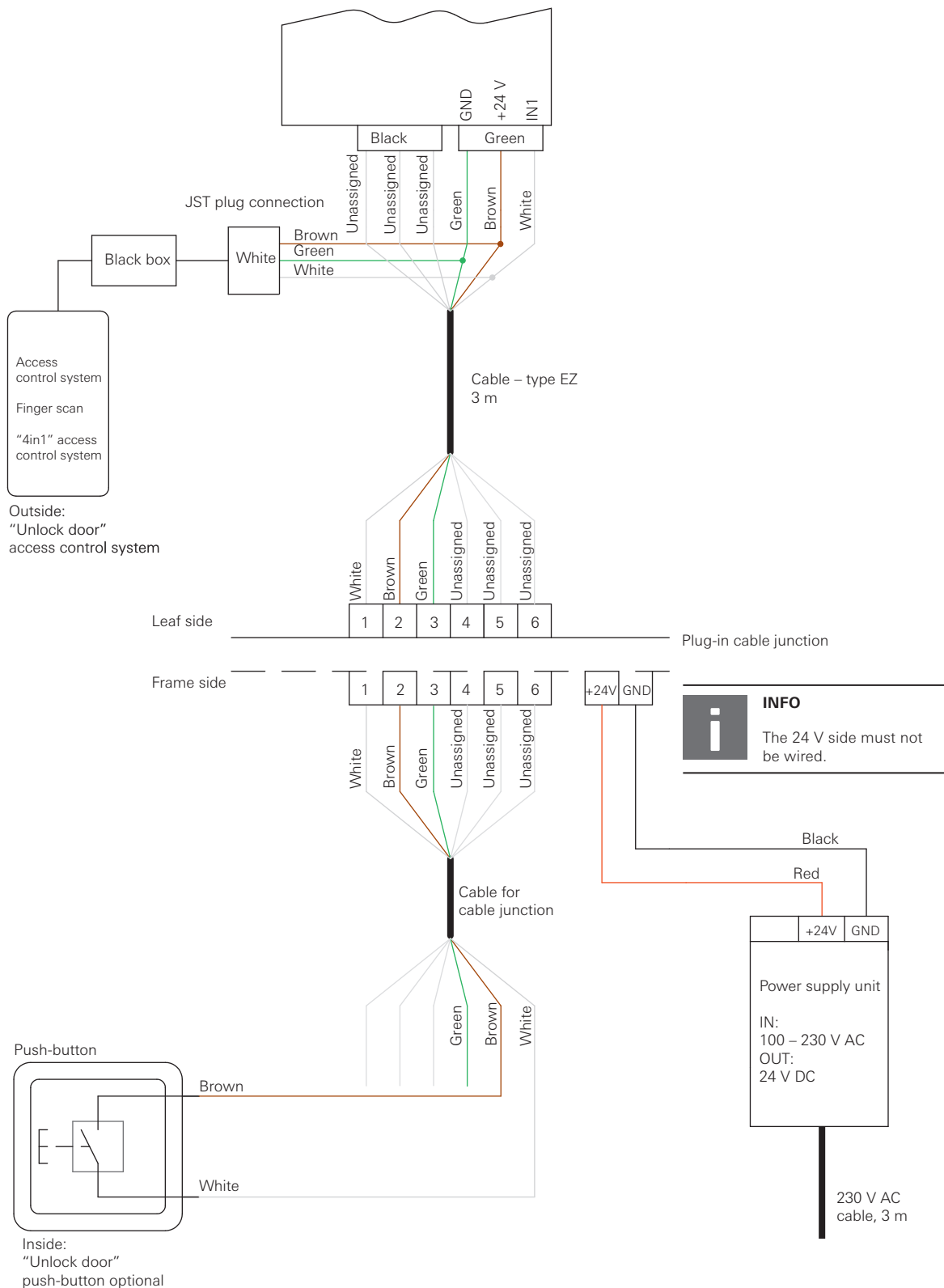
Yellow: unassigned

Grey: unassigned

Pink: unassigned



5.1.2 Cable junction with built-in power supply unit





ATTENTION

Property damage due to short-circuit.

If the power supply unit is connected to the 230 V power supply before the cable junction is connected, this may cause a short-circuit.

- ▶ On the leaf side, connect the EZ cable to the cable junction. For the cabling, see the connection diagram.
 - ▶ On the frame side, connect the cable for the cable junction, e.g. to the push-button, intercom, etc.
-

Connector / cable assignment

White: IN1 / input 1 (OPEN)

Brown: +24 V

Green: GND

Yellow: unassigned

Grey: unassigned

Pink: unassigned

Finger scan cable assignment (between JST connector and black box)

Brown: +24 V

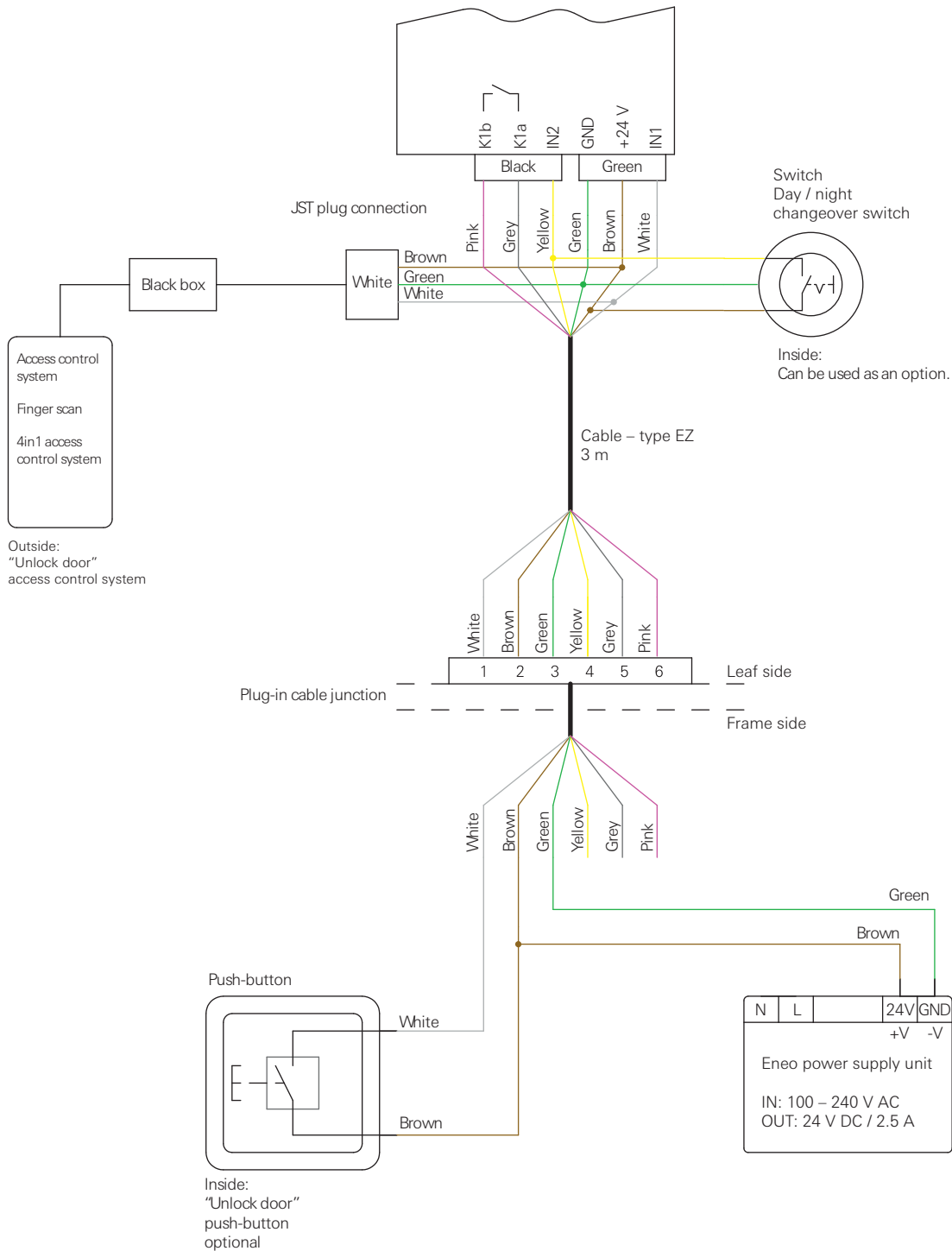
Yellow: GND

Green: control system (OPEN)



5.2 E610 – Eneo CC and E611 – Eneo CF

5.2.1 Cable junction without power supply unit



Connection diagram

E610 – Eneo CC and E611 – Eneo CF

Cable junction without power supply unit

Connector / cable assignment

White: IN1 / input 1 (OPEN)

Brown: +24 V

Green: GND

Yellow: IN2 / input 2 (day / night changeover switch)

Grey: K1a potential-free contact

Pink: K1b potential-free contact



INFO

The yellow conductor must remain unassigned; otherwise this will bridge the switch on the leaf. Terminals 5 and 6 (grey and pink conductors) are connected to one another internally via a relay and a 47 ohm resistor. The maximum load of the contacts is 24 V / 40 mA.

Finger scan cable assignment (between JST connector and black box)

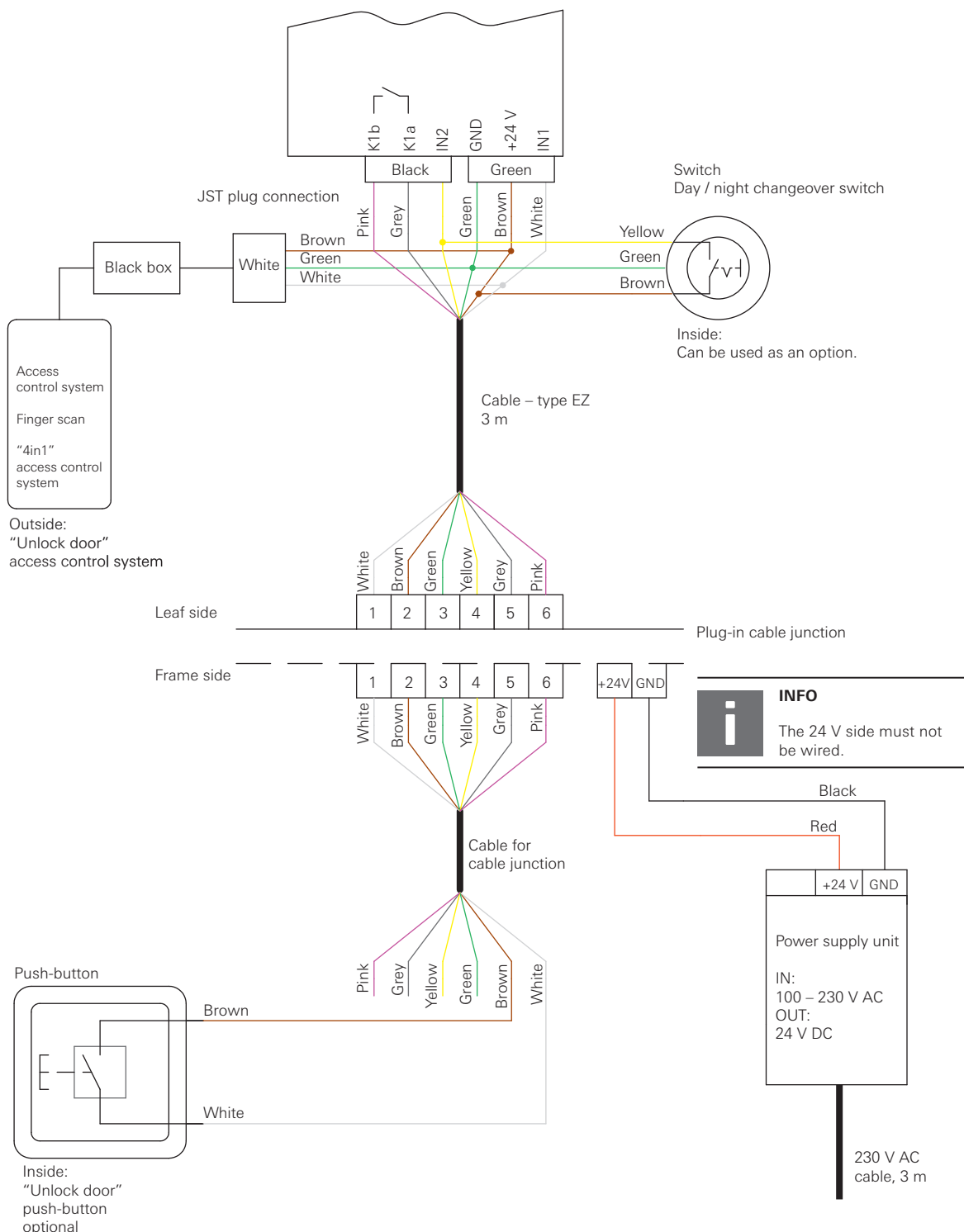
Brown: +24 V

Yellow: GND

Green: control system (OPEN)



5.2.2 Cable junction with built-in power supply unit



ATTENTION

Property damage due to short-circuit.

If the power supply unit is connected to the 230 V power supply before the cable junction is connected, this may cause a short-circuit.

- ▶ On the leaf side, connect the EZ cable to the cable junction. For the cabling, see the connection diagram.
- ▶ On the frame side, connect the cable for the cable junction, e.g. to the push-button, intercom, etc.

Connection diagram

E610 – Eneo CC and E611 – Eneo CF

Cable junction with built-in power supply unit

Connector / cable assignment

White: IN1 / input 1 (OPEN)

Brown: +24 V

Green: GND

Yellow: IN2 / input 2 (day / night changeover switch)

Grey: K1a potential-free contact

Pink: K1b potential-free contact



INFO

The yellow conductor must remain unassigned; otherwise this will bridge the switch on the leaf. Terminals 5 and 6 (grey and pink conductors) are connected to one another internally via a relay and a 47 ohm resistor. The maximum load of the contacts is 24 V / 40 mA.

Finger scan cable assignment (between JST connector and black box)

Brown: +24 V

Yellow: GND

Green: control system (OPEN)



6 Operation

6.1 Fault assistance

Fault	Cause	Corrective action	To be carried out by
No power supply.	Loose plug connection.	Plug in the connector so that it is secure.	■
	Cable breakage.	Replace the cable.	■
	No power connection.	Check the plug connections.	■
		Check the power supply (LED must be lit).	
		Check the power supply unit.	

□ = May be carried out by a specialist company or the end user

■ = **Must** be carried out by a specialist company

6.2 Performance test for cable junction with built-in power supply unit

1. Connect the mains cable to the 230 V power supply.



INFO

Only an electrician is permitted to establish the connection to the 230 V power supply.

2. Check the power supply at the power supply unit.
LED is lit up green when there is voltage.

7 Dismantling



WARNING

Improper dismantling may pose a risk of death!

The sash may fall during dismantling.

- ▶ Secure the sash to prevent it from falling, e.g. by using two people.
 - ▶ Always have dismantling work performed by a specialist company.
-



CAUTION

Physical strain may cause injury and damage to health.

Carrying and lifting heavy loads for extended periods leads to physical injury in the long term.

- ▶ When carrying or lifting loads, maintain an ergonomically correct posture. The maximum permissible load is 25 kg for men and 10 kg for women.
-



INFO

Unless otherwise stated, dismantling is performed in reverse order to installation.

7.1 Dismantling

1. Disconnect the power supply. Pull out the connector.
 2. Undo and remove the screw.
 3. Undo the plug connection with a hex key or suitable screwdriver.
-



ATTENTION

Property damage due to faulty spring.

Undoing the plug connection in an uncontrolled manner may damage the spring.

- ▶ Do not pull on the spring to undo the plug connection.
 - ▶ Use a hex key or suitable screwdriver to undo the plug connection.
-

4. Unhinge the leaf.
5. Protect the plug connection against dust and moisture.



8 Disposal



ATTENTION

Incorrect disposal may pollute the environment.

Pieces of hardware are raw materials.

- Dispose of hardware for environmentally friendly material re-utilisation as mixed scrap.

8.1 Electronic waste

Disposal of electronic waste in accordance with the legal regulations in the individual countries, e.g. in accordance with EU directives (2002/95/EC: Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment, RoHs and 2002/96/EC: Requirements for the take-back and recycling of waste electrical and electronic equipment (WEEE)).

According to the Federal Electrical and Electronic Equipment Act (ElektroG) in Germany, waste electronic equipment must not be disposed of in household waste; it must be taken to an appropriate disposal site.



9 Additional information

9.1 Declaration of Conformity

Cable junction with power supply unit, round faceplate

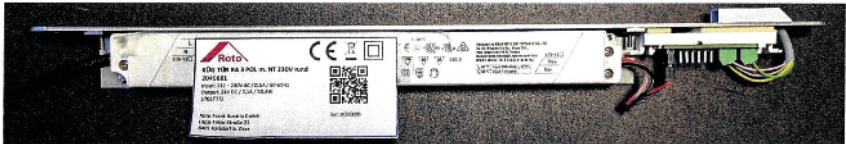


EU- Konformitätserklärung EU declaration of Conformity

Hersteller: **Roto Frank Austria GmbH**
manufacturer: **Lapp Finze Straße 21 1**
AUT – 8401 Kalsdorf b. Graz

Die alleinige Verantwortung für die Ausstellung dieser Konformitätserklärung trägt der Hersteller.
This declaration of conformity is issued under the sole responsibility of the manufacturer.

Produkt- / Typenbezeichnung: **KÜG TÜR RA 2POL m. NETZTEIL 230V 3m rund**
name of product/ type: **CJ Door FR 2POL w. POWER SUPPLY 230V 3m round**
Materialnummer : **2045681**



Seriennummer, Baujahr: **siehe Typenschild**
serial number, year of manufacture: **according to identification plate**

Die Gegenstände dieser Erklärung erfüllen die einschlägigen, nachstehend benannten Harmonisierungsrechtsvorschriften der Union.
The items addressed by this declaration satisfy the relevant harmonization legislation of the European Union.

Richtlinie Directive	Norm Standard
2014/30/EU:2014-02 Harmonisierung der Rechtsvorschriften der Mitgliedstaaten über die elektromagnetische Verträglichkeit	EN 55014-1:2017
	EN 55014-2:2015
	EN 61000-3-2:2014
	EN 61000-3-3:2013
	EN 60335-1:2012 Abschnitt 19.11.4
	ETSI EN 301489-1 V2.2.3 / 2019-11
	ETSI EN 301489-3 V2.1.1 / 2019 -03



2014/35/EU:2014-02 Harmonisierung der Rechtsvorschriften der Mitgliedstaaten über die Bereitstellung elektrischer Betriebsmittel zur Verwendung innerhalb bestimmter Spannungsgrenzen auf dem Markt (Niederspannungsrichtlinie)	EN 60335-1:2012 EN 60335-2-103:2006 EN IEC 62368-1:2014
2011/65/EU:2011-06 Beschränkung der Verwendung bestimmter gefährlicher Stoffe in Elektro- und Elektronikgeräten	
2015/863:2015-03 Änderung von Anhang II der Richtlinie 2011/65/EU des Europäischen Parlaments und des Rates hinsichtlich der Liste der Stoffe, die Beschränkungen unterliegen	

Kalsdorf b. Graz, 06.11.2024

Ort, Datum

place, Datm

Roto Frank
Austria GmbH
A-8401 Kalsdorf

Christian Lazarevic
Geschäftsführer Roto Frank Austria GmbH
Managing Director of Roto Frank Austria GmbH

Cable junction with power supply unit, square faceplate

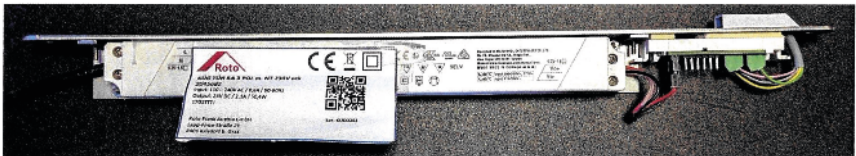


EU- Konformitätserklärung
EU declaration of Conformity

Hersteller: Roto Frank Austria GmbH
manufacturer: Lapp Finze Straße 21 1
AUT – 8401 Kalsdorf b. Graz

Die alleinige Verantwortung für die Ausstellung dieser Konformitätserklärung trägt der Hersteller.
This declaration of conformity is issued under the sole responsibility of the manufacturer.

Produkt- / Typenbezeichnung: KÜG TÜR RA 2POL m. NETZTEIL 230V 3m eck
name of product/ type: CJ Door FR 2POL w. POWER SUPPLY 230V 3m sq
Materialnummer : 2045682



Seriennummer, Baujahr siehe Typenschild
serial number, year of manufacture: according to identification plate

Die Gegenstände dieser Erklärung erfüllen die einschlägigen, nachstehend benannten Harmonisierungsrechtsvorschriften der Union.
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