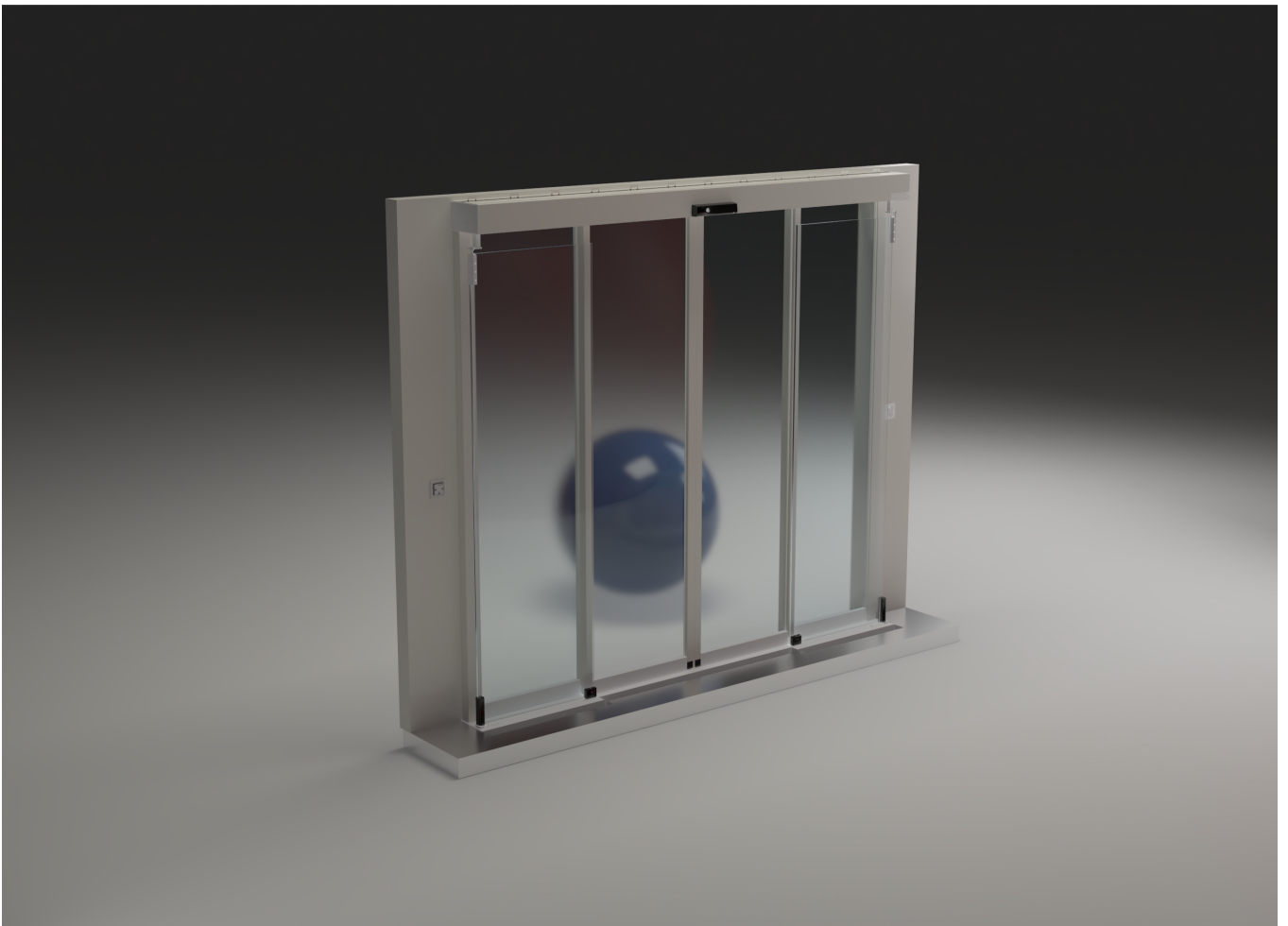


Product documentation

Automated sliding doors Gilgen Connect



Summary

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1 About this documentation

1.1 Representation conventions

This documentation contains various symbols and pictograms. They characterise warnings, specific instructions and advice for the user.

Symbols and markups

This documentation contains various symbols and markups.

Symbol	Name	Function
•	Listing	The black point marks out a listing
✓	Condition	The tick marks a precondition that must be met before the following work procedure can be carried out.
▶	Action	The black triangle marks actions that must be carried out in the corresponding sequence.
⇒	Intermediate result	The arrow marks an intermediate result to an action
▷	Result	The white triangle marks the result of a work instruction.
(1)	Item numbers	The item numbers in the text refer to the positioning within the picture.
Technical data	Cross-reference	The cross-references are used to refer to further information within the documentation. They are interlinked and can be executed with a mouse click.
HSK (main closing edge)	Lexicon entry	Abbreviations and special terms are backed by lexicon entries. The entry is displayed with the hover (mouse-over) function in html. Clicking on the lexicon entry takes you to the glossary.

User notes



User notes and tips for efficient use of the door system are marked with this symbol.

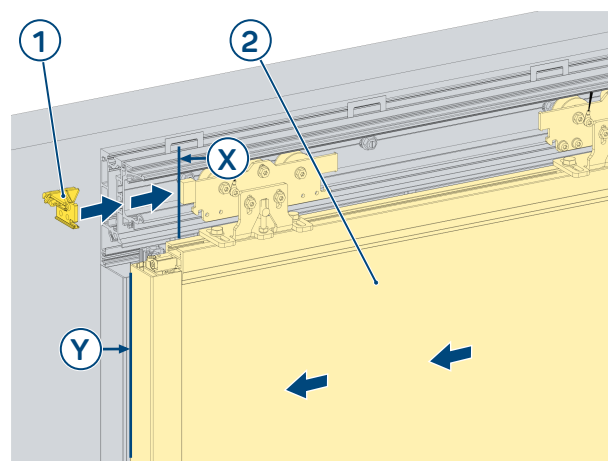
Graphics

Graphics provide information about the appearance and the location of a component or function. The elements relevant to a work procedure are marked with an item number and coloured. The corresponding parts are supplemented in the text by the item number.

Example:

Install the travel stop

- ▶ Slide the door leaf (2) to the end position (Y) .
- ▶ Insert the travel stop (1) to the end position (X) .



2 Safety and security

2.1 Safety notes

The safety notes are scored in four levels : Danger, Warning, Caution, Note. They contain: Type of danger, possible consequences and measures for hazard prevention.

Hazards to persons

DANGER



Danger

Signal word to indicate a imminently hazardous and high-risk situation which will directly result in death or serious injury.

WARNING



Warning

Signal word to indicate a hazard involving an average-level risk, which could possibly result in death or serious injury.

CAUTION



Caution

Signal word to indicate a hazard with involving a low-level risk, which could possibly result in minor or moderate physical injury.

Risks of material damage

NOTE



Note

Signal word for a potentially harmful situation in which the door system or an object in its vicinity could be damaged.

2.2 Intended use

The door drive mechanism has been exclusively designed for operating sliding door leaves. Any other use beyond these application limits is deemed inappropriate and inadmissible!

The drive mechanism can be used by children aged 8 years and more and by persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge, provided they are supervised or have been instructed in the safe use of the device and understand the danger involved. Children must not play with the drive mechanism.

The drive mechanism may only be installed and operated in dry rooms. If this condition cannot be fulfilled, the drive mechanism must be sufficiently protected against moisture.

The drive mechanism must not be installed in areas subject to explosion hazards. The presence of flammable gases or smoke represents a considerable safety hazard.

The use of components and settings that are not described in this documentation can imply electrical or mechanical hazards and are considered as being inappropriate.

The fitter is responsible for ensuring that the results of the risk evaluation are complied with and shall carry out an appropriate testing.

In the event of an inappropriate use of this system, the safety of the user may be jeopardized. The manufacturer declines all responsibility for any resulting damage!

2.3 Residual risks

The door system has been constructed in accordance with the applicable standards and the recognised safety regulations. It corresponds to the state-of-the-art. Nevertheless, its use may involve damages to life and limb of the user or of third parties or material and property damages.

Electrical hazard



Handling electricity harbours many dangers. Please take the following points into account:

- Work on the electrical supply system must only be carried out by a authorised electrician.
- The electrical equipment of the door system must be checked at regular intervals. Loose connections, chafed and scorched cables must be immediately removed or repaired.

- The drive mechanism must not be opened. There is a risk of electric shock.
- It is important to make sure the door system is grounded. Operating the system without grounding can lead to an electric shock.

Danger due to sharp edges



Sharp edges may cause abrasions or cuts.

- All the door leaf edges must have a radius of at least 1,5 mm.
- Cutting edges of tailored profiles and other elements must be broken (0.10 mm - 0.50 mm).

Danger due to movable door system parts



A collision with objects poses a danger for persons of being crushed/and of injury by shearing.

- Work on the door system may only be carried out if the power supply is disconnected and - if present - the battery is unplugged.
- No structural changes must be made on the door system (without the manufacturer's authorisation).
- Make sure that no object (such as furniture, pallets, etc.) is placed in the vicinity of the door.
- The protection of the main/secondary closing edge must be ensured according to standard DIN 16005.

Danger by inactive safety devices.



Inactive safety devices can cause bodily harm or damage the door system.

- It is inadmissible to bypass, shunt or disable the safety devices.
- Any defective safety devices must not be disconnected in order to be able to continue the operation of the installation.

Danger due to inadequate or lack of maintenance.



Inadequate or lack of maintenance can lead to damages of the door system. The safety and security of persons is thus no longer guaranteed.

- The door system must be checked with regard to its safe condition before the first commissioning and during normal operation, at least once a year, by a competent specialist.
- The correct maintenance/checking must be confirmed in the control booklet.
- In the event of malfunctions that could compromise user safety, the door system must be taken out of operation.
- It may only be taken back into operation after the malfunction has been repaired by experts.

Danger due to noise.



An incorrectly installed door system can cause noise during its operation.

- Installation instructions must be strictly followed.
- Only the original accessories and spare parts from Gilgen must be used.
- In the event of malfunctions, the door system must be immediately taken out of operation.

Danger due to incorrect accessories and foreign spare parts.



A safe and reliable function of the installation can only be guaranteed if it is operated in conjunction with the original Gilgen accessories/spare parts. Gilgen declines all responsibility for damages resulting from unauthorized modifications of the installation or the use of foreign accessories/spare parts.

- Only the original accessories and spare parts from Gilgen must be used.

Danger due to transparent material



Transparent sliding door leaves and side door panels may lead to injuries by overlooking the glass panels.

- Surfaces must be clearly recognisable.
- Highlight the surfaces by permanent marking or colouring.

Danger due to faulty leaf systems supplied by others



The use of leaves supplied by others may result in personal injuries if standards and guidelines are not observed.

- Locally applicable guidelines must be observed in order to avoid crushing and shearing points.
- Application limits must be observed.
- The door leaves and their fillings must be manufactured according to the applicable standards.
- It must be ensured that the assembled and installed door system fulfils all the safety requirements of the Machinery directive.
- The conformity with the Machinery directive must be confirmed.

2.4 Safety devices

Reversing and stopping mechanism

If the door leaves meet an obstacle during the closing process, the drive unit immediately stops and reopens the leaves. For reasons of personal safety, the next closing attempt upon expiry of the programmed hold-open time is performed at reduced speed from the point where the obstacle had been detected.

If the door butts against an obstacle during the opening procedure, it is immediately stopped. For reasons of personal safety, the next opening attempt is performed at reduced speed from the point where the obstacle had been detected.

Presence detectors

The presence of obstacles or persons in the active area of the door's main or secondary closing edge is detected by means of the respective sensor system. Combined sensors consisting of an integrated motion detector for door opening as well as a presence detector are used on the main closing edge (HSK). Only presence detectors are used at the secondary closing edge. See Sensor system.

Force limitation

The **static driving power** is limited to **150 N**.

WARNING!

In cases where the main closing edge/secondary closing edge are not monitored/protected by a presence detector/a protection leaf (depending on the risk evaluation, the guidelines or prescriptions), this protection must be ensured by means of a reduction of the door leaf's dynamic forces.

Ground fault circuit interrupter

The mains supply must be protected by a ground fault circuit interrupter.

In order to guarantee the functional FI-safety, the functional grounding must be connected to the earth ground. The applicable local regulations must be complied with.

2.5 Personal protective equipment



Protective gloves

Protects the hands against rubbing, abrasions, punctures or cuts and also from contact with hot materials.



Protective glasses

Protects the eyes against dust, liquids and flying objects (splinters).



Hearing protection

Protects the hearing against loud machine noises.



Safety boots

Protection against heavy falling parts and against slipping.



Respiratory mask

Protects the respiratory tract against harmful dusts or vapours when processing certain materials.

Mobile scaffolding

When working from higher levels, a mobile scaffolding with appropriate safety devices must be used.

2.6 Modifications of the door system

Modifications of the door system are basically not permitted. However, if modifications are required, the following points must be observed:

- ▶ Do not proceed to any changes, additions or modifications of the door system without the explicit authorisation from the manufacturer.
- ▶ Do not override or deactivate any safety devices
- ▶ Do not remove any claddings from the door system.
- ▶ Do not loosen or remove any anchoring of the door system.

3 Product information

3.1 Regulatory certifications

United States

FCC ID: 2BLJF-CONNECTCP



- Rule Part §15.19 compliance statement:
 - This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.
- Rule Part §15.105 (Class B device):
 - Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.
- Rule Part §15.21 statement:
 - Any changes/modifications to this equipment not approved by Gilgen Door Systems AG could void the user's authority to operate the equipment.
- Antenna separation distances:
 - This equipment should be installed and operated keeping the radiator at least 20 cm or more away from person's body.

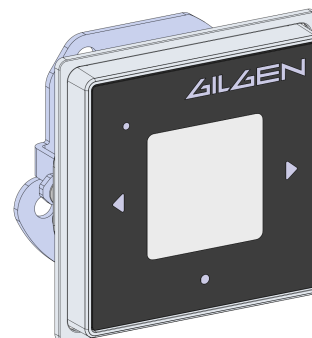
Canada

IC: 33110-CONNECTCP

- HVIN:
 - 072510011
 - 072510012
- CAN ICES-003(B) / NMB-003(B)
- This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:
 - This device may not cause interference.
 - This device must accept any interference, including interference that may cause undesired operation of the device.
- L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:
 - L'appareil ne doit pas produire de brouillage.
 - L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

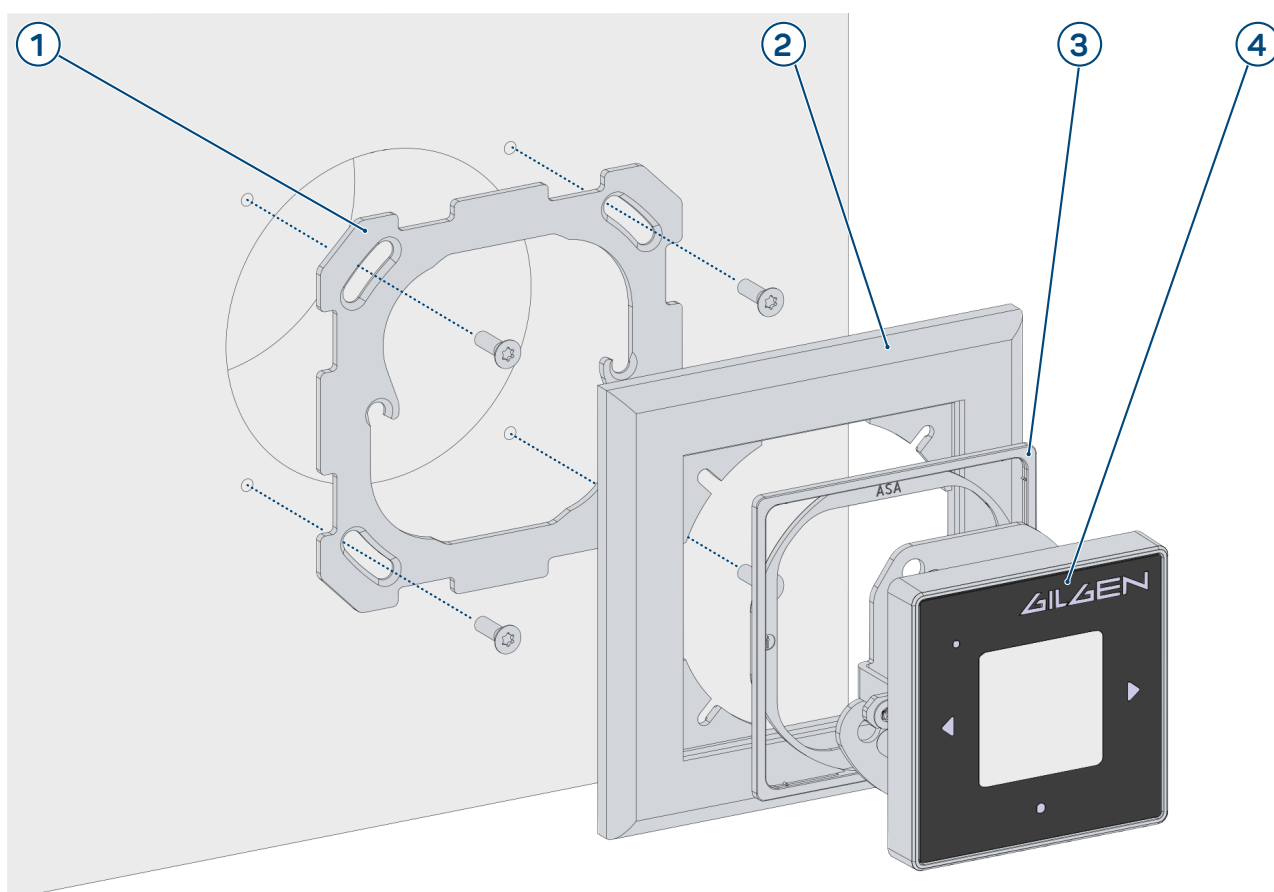
3.2 Gilgen Connect Control Panel

The Gilgen Connect Control Panel enables to set the operating mode of the door. A second control level enables the access to the most common additional functions. Gilgen Connect Control Panel communicates via Bluetooth with a Smartphone or with Gilgen Connect Mobile (app). Full access to all door parameters is possible via the app.



Order number	Contents
45-0725-100/01	Gilgen Connect Control Panel white
45-0725-100/02	Gilgen Connect Control Panel black
45-0725-120/11	Cover frame flush-type mounting, single version EDIZIO, white
45-0725-120/12	Cover frame flush-type mounting, single version EDIZIO, black
45-0725-120/21	Cover frame flush-type mounting, double version EDIZIO, white
45-0725-120/22	Cover frame flush-type mounting, double version EDIZIO, black
45-0725-120/31	Frame for surface-type mounting, single version EDIZIO, white
45-0725-120/32	Frame for surface-type mounting, single version EDIZIO, black
45-0725-120/41	Frame for surface-type mounting, double version EDIZIO, white
45-0725-120/42	Frame for surface-type mounting, double version EDIZIO, black
45-0725-120/71	Metal frame without cover frame incl. fixing material, single version EU
45-0725-120/81	Metal frame without cover frame incl. fixing material, double version EU
45-0725-121/11	Modification set CONNECT CONTROL PANEL white (is needed for the conversion from 45-0610-130 to 45-0725-100/11)
45-0725-121/12	Modification set CONNECT CONTROL PANEL black (is needed for the conversion from 45-0610-130 to 45-0725-100/12)

Overview Gilgen Connect Control Panel single version



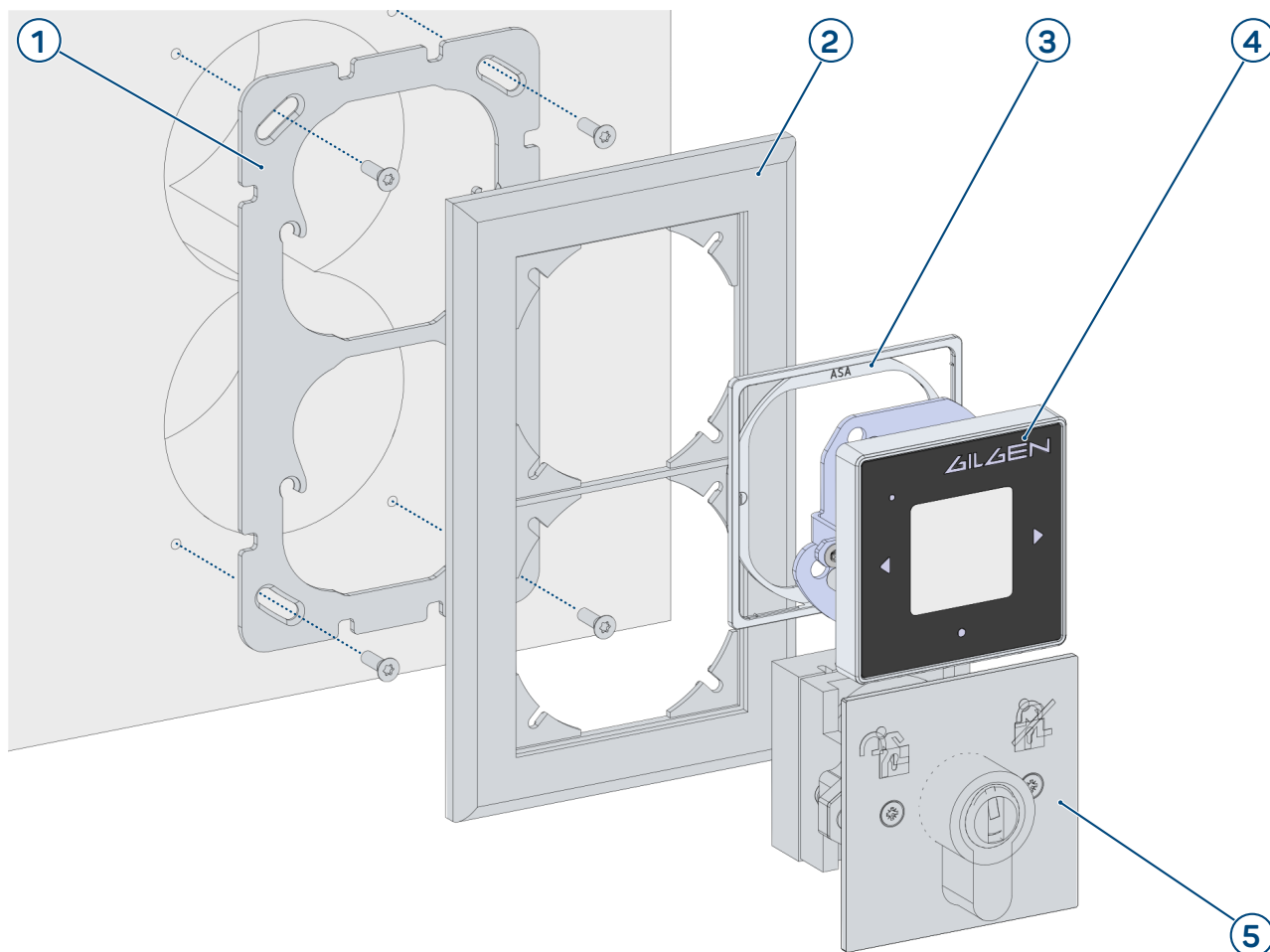
Gilgen Connect Control Panel Overview

- | | |
|----------------------------------|--|
| (1) Metal frame single | (2) System frame** |
| (3) Intermediate frame 60x60 mm* | (4) Gilgen Connect Control Panel white/black |

* Necessary when used with CH system frame in order to insert the display with standard dimensions 55x55 mm into the installation frame with a 60x60 mm cut-out.

** Compatibility: Feller, Hager, Gira, Jung, Schneider

Overview Gilgen Connect Control Panel double version



Gilgen Connect Control Panel Overview

- | | |
|---|---|
| (1) Metal frame double | (2) System frame** |
| (3) Intermediate frame 60x60 mm* | (4) Gilgen Connect Control Panel white/black |
| (5) Key-operated switch | |

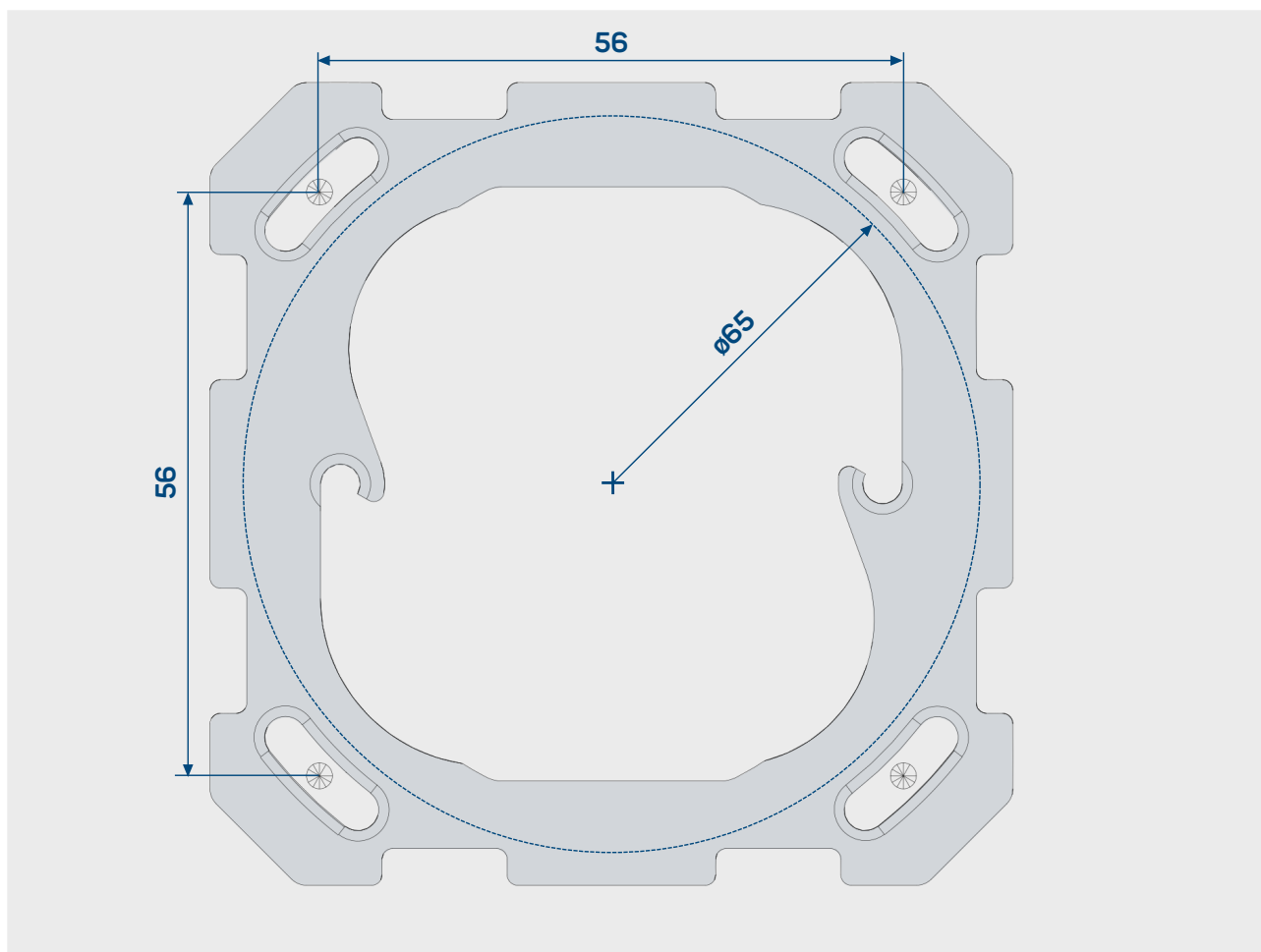
* Necessary when used with CH system frame in order to insert the display with standard dimensions 55x55 mm into the installation frame with a 60x60 mm cut-out.

** Compatibility: Feller, Hager, Gira, Jung, Schneider

Drilling templates

Single version

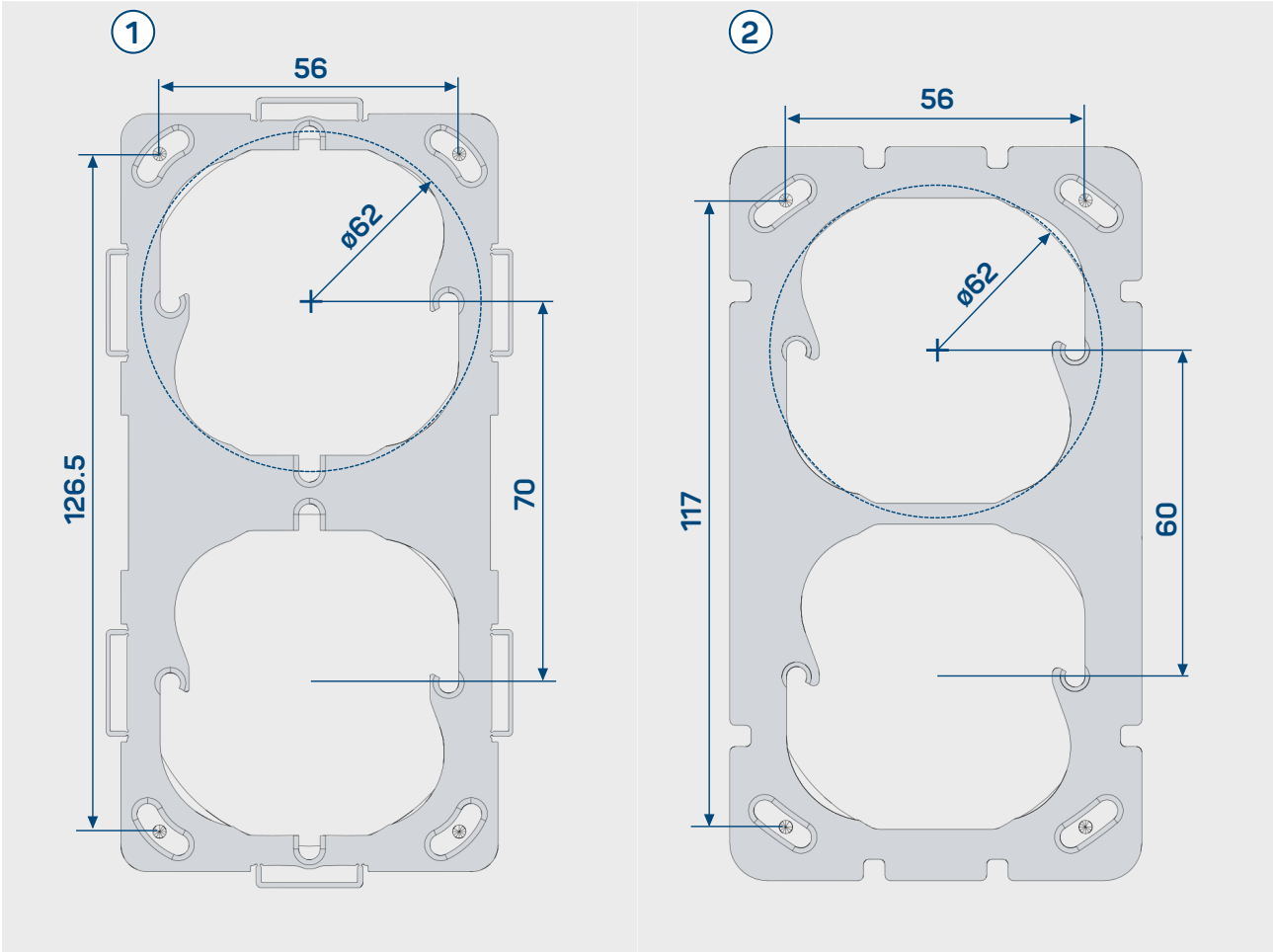
For flush-type installation with metal frame



Drilling template single

Double version

For flush-type installation with metal frame



Drilling template double

(1) EU

(2) CH

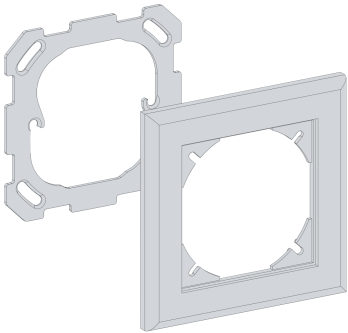
Cover frame and accessories

Flush-type mounting

Cover frame single

Cover frame flush-type mounting, single version EDIZIO,
incl. fixing material

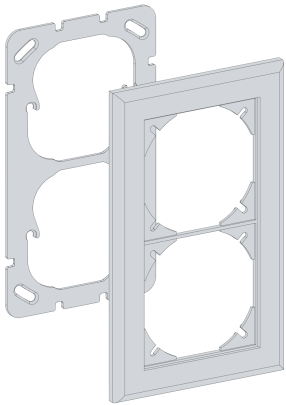
Order number	Contents
45-0725-120/11	Cover frame white
45-0725-120/12	Cover frame black



Cover frame double CH

Cover frame flush-type mounting, double version EDIZIO (Switzerland), incl. fixing material

Order number	Contents
45-0725-120/21	Cover frame white
45-0725-120/22	Cover frame black

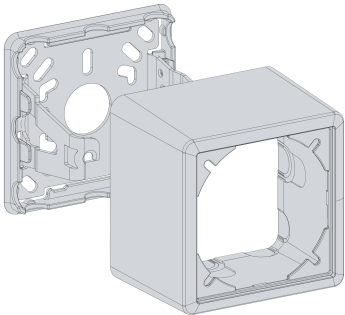


Surface-type mounting

Assembly frame single

Frame for surface-type mounting, single version EDIZIO

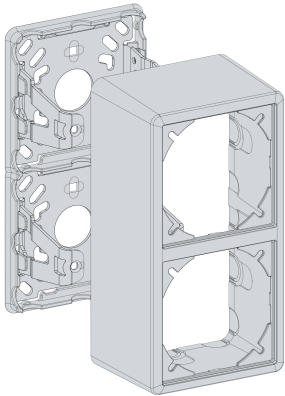
Order number	Contents
45-0725-120/31	Assembly frame white
45-0725-120/32	Assembly frame black



Assembly frame double

Frame for surface-type mounting, double version EDIZIO

Order number	Contents
45-0725-120/41	Assembly frame white
45-0725-120/42	Assembly frame black

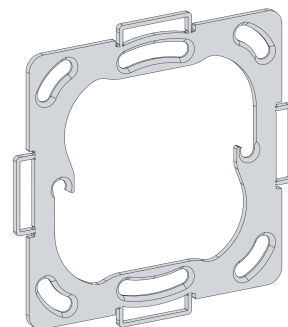


Metal frame Kits without cover frame

Metal frame single

Single version, incl. fixing material

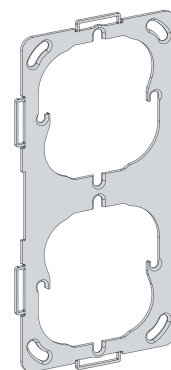
Order number	Contents
45-0725-120/71	Metal frame single



Metal frame double

Double version, incl. fixing material

Order number	Contents
45-0725-417	Metal frame double



Switch kits

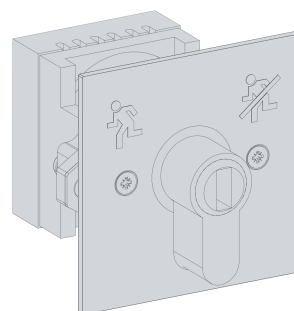
For installation in cover frame with front plates cut-out 60x60mm

Profile half cylinder

Emergency-exit suppression switch kit

Emergency-exit suppression switch kit with front plate 60x60mm

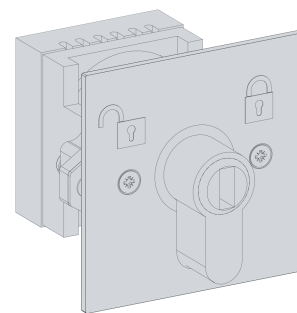
Order number	Contents
45-0635-144/01	Emergency-exit suppression switch kit white
45-0635-144/05	Emergency-exit suppression switch kit black



Electric locking switch kit

Electric locking for Gilgen Connect Control Panel switch kit with front plate 60x60mm

Order number	Contents
45-0635-144/02	Electric locking switch kit white
45-0635-144/06	Electric locking switch kit black

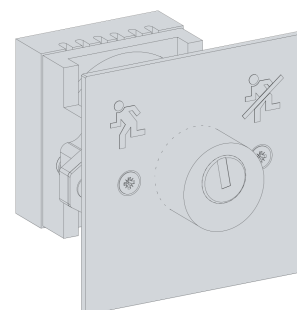


Round cylinder

Emergency-exit suppression switch kit

Emergency-exit suppression switch kit with front plate 60x60mm

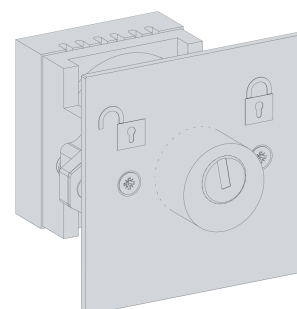
Order number	Contents
45-0635-144/03	Emergency-exit suppression switch kit white
45-0635-144/07	Emergency-exit suppression switch kit black



Electric locking switch kit

Electric locking for Connect Control Panel switch kit with front plate 60x60 mm

Order number	Contents
45-0635-144/04	Electric locking switch kit white
45-0635-144/08	Electric locking switch kit black



Compatible cylinder types

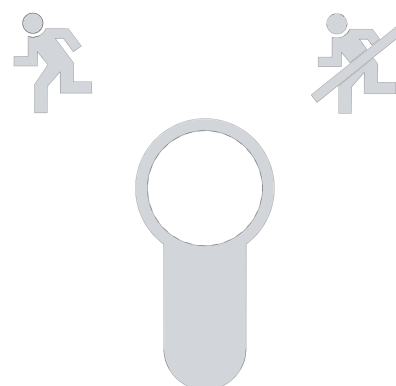
KABA 1514
 SEA 1.043.0
 DOM 2222Hix5
 Driver with 8 adjusting possibilities



KESO 11.012.045
 KESO 21.012.045
 KESO 31.012.045
 Adjustable cams E201
 Glutz 81075 (8x45 °)



KESO 21.214.040
 Adjustable cams E200
 BKS 8900 N BL 31
 BKS 3101 N BL 31
 BKS 3301 N BL 31
 ZEISS IKON 0040
 ZEISS IKON 5040
 ZEISS IKON 5044
 ZEISS IKON 6044
 ZEISS IKON 7044



DOM 333 ix-5
 Driver with 8 adjusting possibilities
 Glutz 81175 (8 x 45°)
 BKS 8900 N BL 31
 BKS 3101 N BL 31
 BKS 3301 N BL 31
 ZEISS IKON 0040
 ZEISS IKON 5040
 ZEISS IKON 5044
 ZEISS IKON 6044
 ZEISS IKON 7044



Back to Control elements

3.3 Gilgen Connect

Gilgen Connect is the Connectivity solution for the door systems of the company Gilgen Door Systems.

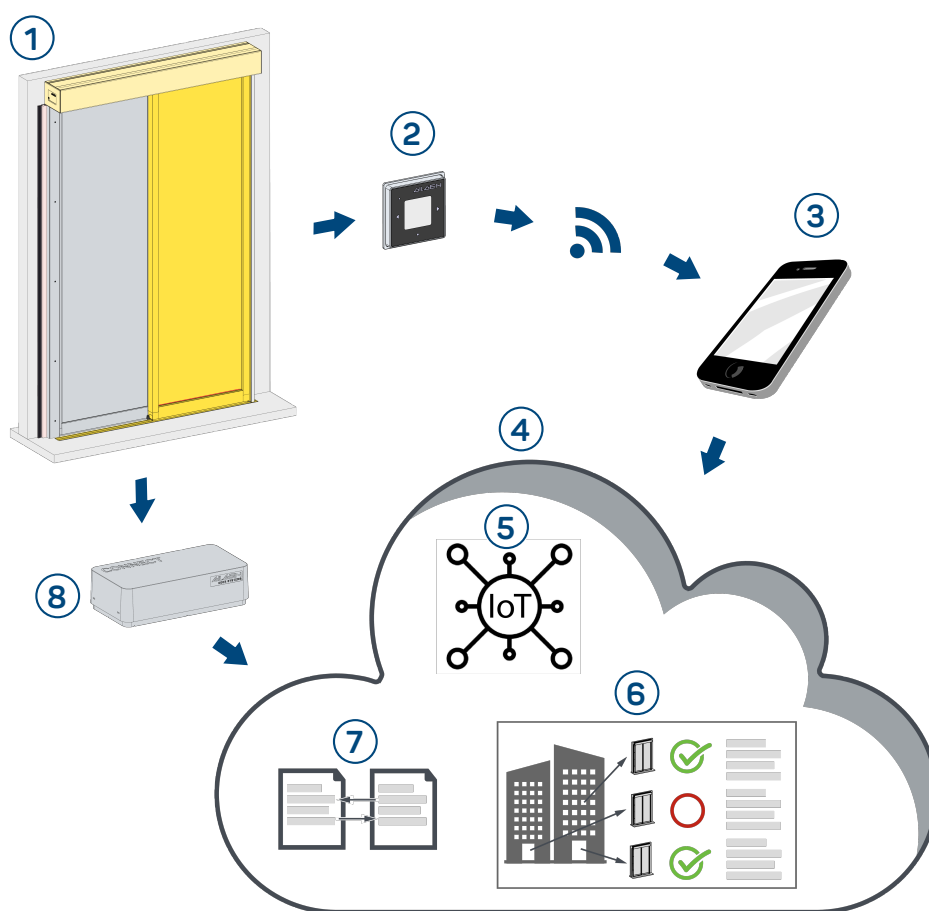
The door can be managed, connected, controlled and analysed with Gilgen Connect Cloud. This enables an immediate access to live data and reduces the carbon footprint thanks to the remote diagnostic and maintenance.

Thanks to the Gilgen Connect Control Panel and the Gilgen Connect Mobile, the door is easy to operate and the commissioning of the door system is intuitive.

Application examples

- Commission a new door system by means of Gilgen Connect Mobile
- Grant access via QR code
- „Door Health Check“
- Manage door systems and their services by means of the Gilgen Connect Cloud Asset Management
- Modify operating modes via Gilgen Connect Mobile
- Modify/adapt door parameters via remote access

Gilgen Connect components



Gilgen Connect Cloud

(1) Door	(2) Gilgen Connect Control Panel
(3) Gilgen Connect Mobile	(4) Gilgen Connect Cloud
(5) Gilgen Connect Cloud IoT	(6) Gilgen Connect Cloud Asset Management
(7) Data exchange	(8) Gilgen Connect Gateway

- **Gilgen Connect**
 - All the digital products
- **Gilgen Connect Control Panel (2)**
 - **Control element [▶ 26]** directly at the door (even without Cloud)
 - The Gilgen Connect Control Panel is wired with the door and can thus control the operating modes and limited settings.
- **Gilgen Connect Mobile (3)**

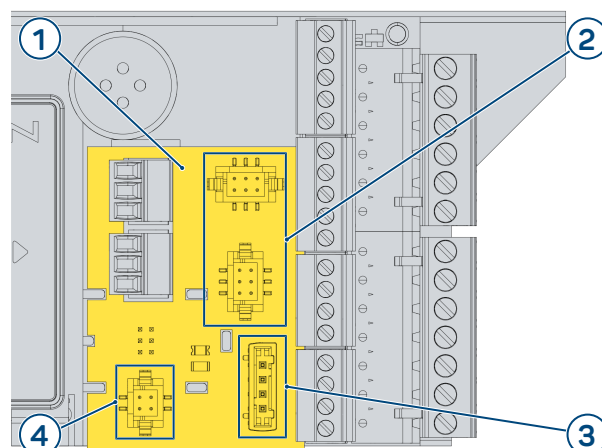
- Application for Android and iOS mobile devices
- Gilgen Connect Mobile is connected to the Gilgen Connect Control Panel via Bluetooth. The operating modes and full (user dependent) settings can thus be controlled via the Smartphone.
- An Asset is required for the **mobile operation [► 29]** of the Gilgen Connect Cloud **[4]**.
- **Gilgen Connect Cloud [4]**
 - Website and Server (in the Cloud)
 - The Gilgen Connect Cloud contains and hosts all Cloud functions, enabling the remote access and data exchange **[7]** and data filing.
- **Gilgen Connect Cloud IoT [5]**
 - Using the control and analysis functions with Gilgen Connect Cloud
 - Gilgen Connect Gateway **[8]** enables the door to be connected directly to the Gilgen Connect Cloud **[4]**. This enables to change operating modes and door parameters via the Internet.
 - The „Door Health Check“ enables door data to be read out and monitored.
 - Access to Gilgen Connect Cloud Asset Management **[6]**
- **Gilgen Connect Cloud Asset Management [6]**
 - Management of the doors on Gilgen Connect Cloud
 - In the Gilgen Connect Cloud Asset Management, the digital data base of a door is stored and managed in the Cloud (digital twin).
 - Additional data (maintenance contracts, service information, etc.) can be stored with the Asset. For example, the service technician always knows what condition a door system is in.
 - For operation via Gilgen Connect Mobile **[3]** it is compulsory to create an Asset for the door.
 - An Asset is also required to regulate access rights.
- **Gilgen Connect Gateway [8]**
 - Modem for **connecting [► 19]** the door with Gilgen Connect Cloud **[4]**
 - Gilgen Connect Gateway **[8]** enables the door to be connected directly to the Gilgen Connect Cloud **[4]**. This enables to change operating modes and door parameters via the Internet.

4 Electric installations

4.1 Connecting the SL 35/45 Y adapter

Y-adapter SL 35/45

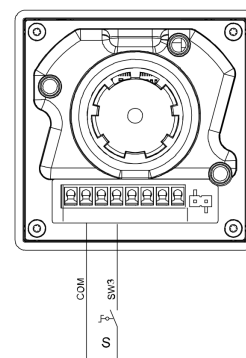
The Y-adapter [45-0350-529/00] (1) is required to connect the Gilgen Connect control panel to the CONTROL II SL 35/45.



4.2 Connect Gilgen Connect Control Panel

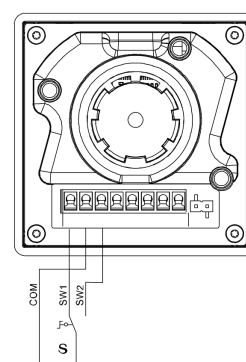
Connect electric locking

S = Key-operated switch

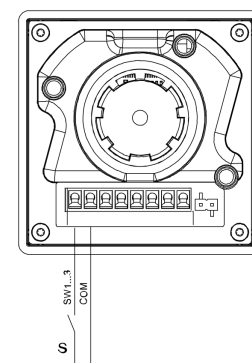


Connect emergency exit change-over switch

S = Key-operated switch

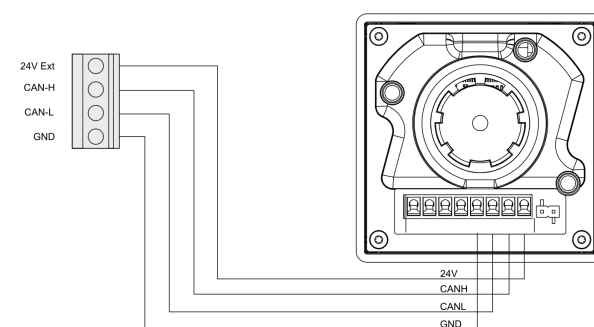


Connect KEY-command to Control Panel

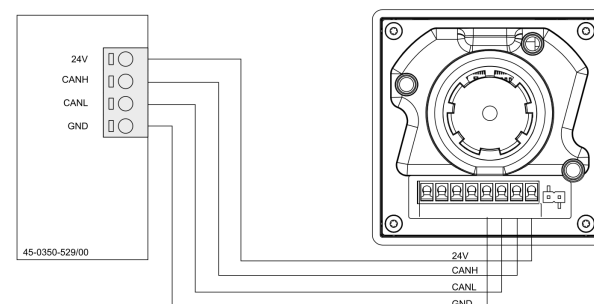


Connect Gilgen Connect Control Panel

Connect CAN-bus



SL 15



SL 35/45

4.3 Install the Gilgen Connect Gateway

- ✓ The door system is disconnected from the mains supply.
- ✓ The maximum length of the CAN cable connection between the gateway and the control unit of 15 m is ensured.
- ✓ The installation place has been determined and WLAN reception ensured (not in the header case, shielded by metal, ceiling panels etc.).
- Check the scope of delivery.