

IQ lock – self-locking panic
locks for 1- and 2-leaf doors

IQ lock AUT

IQ lock EL / IQ lock EL DL

IQ lock EM / IQ lock EM DL

IQ lock C / IQ lock C DL

EN Commissioning and connection
instructions






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Key to symbols

Important information and technical notes are highlighted to explain correct operation.

Symbol	Meaning
	means "important note"
	means "additional Information"
	Symbol for an action: Here you have to do something.
	only applies for IQ lock for 1-leaf doors
	only applies for IQ lock DL for 2-leaf doors

Product name

Lock type	1-leaf	2-leaf
Electric full-panic motor lock	–	IQ lock AUT
Electrical motor lock	IQ lock EL	IQ lock EL DL
Electro-mechanical lever lock	IQ lock EM	IQ lock EM DL
Mechanical contact lock	IQ lock C	IQ lock C DL
Mechanical lock	IQ lock M	IQ lock M DL

Product liability

In compliance with the liability of the manufacturer for his products as defined in the German "Product Liability Act", compliance with the information contained in this brochure (product information and intended use, misuse, product performance, product maintenance, obligations to provide information and instructions) must be ensured. Failure to comply releases the manufacturer from his statutory liability.

Abbreviations

VB	Solid leaf
RR	Tubular frame

1 Safety notices

1.1 Intended use

Self-locking panic locks are components used to lock emergency exit doors/panic exit doors on rescue routes. When self-locking anti-panic locks are used, the technical data and environment conditions of these installation and operating instructions must be taken into account.

The safety features of these products are important for correlation with EN 179 and EN 1125. No modifications of any kind are permitted other than those described in these instructions.



- ▶ Operate the locks only in installation positions typical for locks i.e. vertical with horizontally locking crossbar.
- ▶ Always operate the locks in such a way that the panic function works in the direction of emergency exit.

- ▶ Use these locks on emergency exit doors in accordance with EN 179 and panic exit doors in accordance with EN 1125 only in connection with the officially approved sliding fitting systems (see certificates for consistency of performance, chapter 7).

The self-locking panic locks are suitable for use on single- and double-leaf panic doors.



- They are not designated for use on double-action doors.
- Use in transport technology (pedestrian traffic and transport of goods by road, rail, air and water) must be agreed with the manufacturer.



The product should be installed or incorporated in such a way that effortless access to the product is guaranteed during any repairs and/or maintenance, and that any removal costs do not stand out of proportion to the value of the product.



Trouble-free functioning of the locks is only ensured if a carry bar and a door closer system in accordance with EN 1158 with closing sequence control are mounted.



- Before mounting the emergency exit locks ensure that the door is fitted properly and not distorted in any way.
- ▶ Install the emergency exit locks only in hollow doors that are designed for this purpose by the manufacturer.

The horizontal bar must be mounted in such a way that the greatest possible effective bar length is achieved.

- ▶ Avoid safety risks during the installation of emergency exit devices with handle operation (in particular in case of doors with graded surfaces: jamming of fingers or clothes).
 - ▶ If necessary, adapt installation to the majority of the users:
 - Installation height for children smaller than 900–1000 mm
 - Door closer installation in such a way that children, elderly or impaired persons are not impeded
- Only devices conforming to standard may be used for keeping emergency exit and panic exit doors closed.



In correlation with the specifications of German building regulation laws, a lock of the VS-type A in accordance with DIN EN 179 or DIN 1125 (lock only for 1-leaf doors) can also be used in the active leaf of a 2-leaf door if:

- a) the passive leaf lock is secured against maloperation and
- b) the passage clearance of the active leaf is sufficient for an escape route.

1.2 Technical safety

- Improper installation and maintenance work or repairs can lead to significant hazards for the user. Installation and maintenance work or repairs may only be carried out by GEZE and their authorised specialists.
- Damage to GEZE IQ locks can endanger your safety. Check them for visible signs of damage. Never put a damaged lock into operation.

- Warranty claims will be rendered invalid if the lock is not repaired by GEZE or an authorised GEZE service partner.
- GEZE only guarantees that safety requirements are met if genuine GEZE spare parts are used. Faulty components may only be replaced by genuine parts.
- GEZE self-locking panic locks must not be opened.

1.3 Safety-conscious working

Work on the electrical equipment (IQ AUT, IQ lock EL, IQ lock EL DL, IQ lock EM, IQ lock EM DL, IQ lock C, IQ lock C DL) may only be performed by a qualified electrician.

Locks may only be installed by a specialist from the respective trade (locksmith, carpenter etc.).

Only genuine GEZE spare parts or accessories approved by GEZE may be used.

Please contact GEZE for information about the later connection of further accessory parts.



- Remove the lock before drilling the fixing points for the sliding fitting systems.
- Do not put any greases, lubricants or oils in the lock. Avoid water penetrating the lockcase or the formation of condensation.
- Only use lubricants approved by GEZE for lubricating the outer parts (crossbar, latch), see chapter 1.4.
- Never paint or varnish over the lock face plate or any other parts of the locks.
- Remove the lock before doing any painting work.
- The handle pin must not be forced through the lock follower.
- The door leaf must not be carried by the handle.

1.4 Cleaning and care

GEZE self-locking panic locks may only be oiled or greased using lubricants approved by GEZE.

Lubricant	Manufacturer	Note
Klübersynth LI 44-22	Klüber Lubrication	Slightly wet the latch and crossbar
Fin Lube TF	Interflon	Spray onto the latch and crossbar from the outside

1.5 Accessories

GEZE self-locking panic locks may only be used with the accessories prescribed by GEZE.

- ▶ Only use genuine GEZE accessories.
- If other parts are attached or installed, any warranty, guarantee and/or product liability claims will be rendered invalid.

1.6 Assembly and installation

Some safety rules must always be observed during fitting and installation of the self-locking GEZE panic locks.

These must be noted and followed, since the device can otherwise be damaged and result in hazards for the user:



- ▶ When installing the locks, make sure you following building regulations and any specifications issued by the door manufacturer.
- The lock must not be modified in any way.
- Lock and original strike plate (1-leaf) as well as lock and original strike box (2-leaf) form one unit. Perfect function is only possible in combination.
- If installation is faulty or improper, all manufacturer guarantee and liability claims will be rendered invalid.

1.7 Use of motor locks IQ lock EL/IQ lock EL DL on fire and smoke protection doors

GEZE motor locks, IQ lock EL for 1-leaf and IQ lock EL DL for 2-leaf fire and smoke protection doors may be used in all modes of operation (permanently unlocked, secured by day, night).

It must be guaranteed that in the event of a fire in the case of the modes of operation "permanently unlocked" and "secured by day" the electrical activation of the lock is no longer possible, the lock can no longer be unlocked and the cross latch and bolt engage securely in the locking plate at all times.

In order to interrupt this electrical activation in case of a fire, permissible fire alarms with trigger mechanisms, in accordance with the DIBt Directive, must be employed for hold-open systems.

When motor locks are used on fire and smoke protection doors, three different installation situations can occur. The following chapters must be heeded in this case.

1.7.1 Release via on-site fire alarm system

Connection of an on-site fire alarm system (BMA) to the motor lock control (MST 210).

This connection is implemented via the "smoke detector" input especially provided. A zero-potential or non-isolated contact is required by the BMA for this.

The planning of the installation of the smoke detectors is implemented on site. It should be pointed out that when motor locks are used, smoke detectors in accordance with the above-mentioned directive must be fitted.



Smoke development on both sides of the door must be detected by the BMA.

1.7.2 Release via trigger mechanism of hold-open systems

In accordance with the DIBt Directive for hold-open systems, the following is necessary, taking account of the difference for the use of the "permanently unlocked" and "secured by day" modes described:

Ceiling height above lintel lower edge ≤ 1 m

2 ceiling-mounted detectors are required



Deviation from DIBt Directive:

The installation of only one lintel-mounted detector is not authorised in this case, since the fire can only be detected on one side if the door is closed.

Ceiling height above lintel lower edge > 1 m

2 ceiling-mounted detectors and 1 lintel-mounted detector are required This corresponds to 2 ceiling-mounted detectors and 1 smoke switch control unit.

The smoke switch control unit (RSZ 5 and RSZ 6, includes power supply + 1 lintel-mounted detector) is connected directly to the MST in accordance with wiring diagram.

1.7.3 Motor lock in "night" mode of operation

The motor lock is used in "night" mode of operation only. In the "night" mode of operation, the automatic crossbar projection of 20 mm is implemented every time the door is closed. The GEZE SecuLogic access control, for example, regulates controlled admission. In this case, the crossbar is retracted and the door can be passed through against the direction of emergency exit.

With the motor lock control MST 210, different release times can be set using a DIP switch.

Setting of the release time

Opening time "x" = 1 s

Setting options for release time:

Switch	Switch position	Release time
1	ON	x + 1 s
2	ON	(x) + 2 s
3	ON	(x) + 5 s
4	ON	(x) + 10 s

Example:

Set release time = 9 s



In order to ensure that the lock locks itself mechanically, the hold-open time must not exceed 4 seconds. For this reason only switches 1 and 2 may be active in case of the DIP switch.

2 Your contribution to environmental protection

- When disposing of the self-locking panic locks, separate the different materials and have them recycled.
- Legal regulations must be observed during the disposal of self-locking panic locks.
- GEZE self-locking panic locks are certified with the Environmental Product Declaration according to ISO 14025 from the Institut Bauen und Umwelt e.V. (*Institute for Construction and the Environment*). This approval describes the specific environmental performance of the IQ locks and confirms that the GEZE lock family promotes environmentally friendly and healthy construction work.

3 Functions and properties

3.1 Overview of functions

Function / property	IQ lock AUT *	IQ lock EL/ EL DL	IQ lock EM/ EM DL	IQ lock C/ C DL	IQ lock M/ M DL
Panic function	☑	☑	☑	☑	☑
Mechanical self-locking	☑	☑	☑	☑	☑
Electrical time-out function	☑	☑	-	-	-
Approval for emergency exits	☑	☑	☑	☑	☑
Approval for fire protection doors	☑	☑	☑	☑	☑
Resistance Class (RC) 3	-	IQ lock EL	IQ lock EM	IQ lock C	IQ lock M
Secured by day with electric strike function	☑ **	☑ **	-	-	-
Motor-driven unlocking < 1 second (active leaf)	☑	☑	-	-	-
Motor-driven unlocking < 1.8 seconds (passive leaf)	☑	-	-	-	-
Permanent unlocked	☑	☑	-	-	-
Outside handle, electronically engageable	-	-	☑	-	-
Automatic locking mechanism in the event of a power failure	☑ ***	☑	-	-	-
Automatic resetting of the release if door is not opened	☑	☑	-	-	-
Input for fire alarm system (locking)	☑	☑	-	-	-
Unlocking by key	☑ ****	☑	☑	☑	☑
Operating voltage	24 V	12–24 V	12 V, 24 V, 48 V	-	-
Feedback contacts for lock states	☑	☑	☑	☑	-
Optional sabotage monitoring or cylinder contact	☑	☑	☑	☑	-
Can be used on the left and right	☑	☑	-	☑	☑
Same installation dimensions for all IQ locks	☑ *****	☑	☑	☑	☑
Backset 35, 40, 45, 55, 60, 65, 70, 80, 100	☑	☑	☑	☑	☑
Distance 72, 74, 78, 92, 94	☑	☑	☑	☑	☑
9 mm handle follower					
▫ continuous	☑	☑	-	☑	☑
▫ divided	-	-	☑	-	-
Approval in accordance with EN 1125	☑	☑	☑	☑	☑
Approval in accordance with EN 179	☑	☑	☑	☑	☑
Approval in accordance with EN 14846	-	-	☑	-	-
Approval in accordance with EN 1634	☑	☑	☑	☑	☑
VdS approval	-	IQ lock EL	IQ lock EM	IQ lock C	IQ lock M

☑ available

- not possible

* Rod drive IQ AUT and IQ lock EL DL = IQ lock AUT

** Active leaf for IQ lock DL

*** In connection with a power storage device / power pack

**** Unlocking via active leaf

***** IQ AUT 42 x 400 x 15.5 mm

3.2 Explanation of terms, functions and properties

Panic function

The lock can be unlocked at any time by pressing the door handle/panic bar in the direction of emergency exit.

Sliding fitting systems

According to DIN EN 179 or 1125 the sliding fitting systems must be tested together with the lock. A list of tested sliding fitting systems can be found in the certificates for consistency of performance (see chapter 9).

Mechanical re-locking

The two cross latches are latched by actuating the auxiliary latch.

Latching of the two cross latches only takes place after this has engaged and positioned itself in the strike plate.

Crossbar projection only takes place after the cross latch has been positioned in the strike plate.

Electrical time-out function

During release time, manipulation attempts on the auxiliary latch by the control are ignored and the crossbar remains retracted.

After the set release time has expired, the crossbar is extended when the auxiliary latch is activated. The control detects the manipulation attempt by the check on the door position and the motor retracts the crossbar again.

Secured by day with electric strike function

In adjustable daytime operation, the crossbar remains retracted even if the door has closed and the two cross latches are in place.

The door cannot be passed from the outside, from the inside escape is possible at all times through the panic function.

In connection with access control, for example, shortest possible opening times well under one second are now achieved, which has only been possible with electric strikes before.

Exception: In the event of a fire the door is completely locked. The motor lock is actuated directly by the fire alarm system in this case (see chapter 1.7).

Permanent unlocked

Alongside automatic re-locking ("night" mode of operation) and secured daytime operation ("secured by day" mode of operation), the third mode of operation "permanently unlocked" is possible (see Setting permanently unlocked, chapter 5.1).

Here, the crossbar is retracted and the cross latches are unstable. The door can be pulled or pushed open at any time by hand.

Exception: In the event of a fire the door is locked completely after the door leaf has closed.

The motor lock is actuated directly by the fire alarm system in this case.

Outside handle, electrically engaged

When the supply voltage is applied to the lock, the outside handle is engaged and remains engaged as long as current is flowing (working current principle).

As soon as the voltage supply stops, the outside handle is disabled and the door can no longer be opened using the handle. The panic function is retained.



Thanks to the nightlatch function integrated in all our locks, the lock can be opened using the matching key (e.g. by the fire brigade).

Automatic locking mechanism in the event of a power failure

In the event of a power failure, the motor is actuated via the capacitor integrated in the control in such a way that the slide bolt in the lock can move to the "night" position. This automatically pre-closes the crossbar when the door is closed.

If the door is still open at this point, the crossbar projection is controlled via the auxiliary latch when the door is closed.

Input for fire alarm system

The automatic locking mechanism of the motor lock in the event of a fire is activated via the input for the fire alarm system on the motor lock control.

This takes place automatically no matter which mode of operation is selected (night mode, secured by day or permanently unlocked).

Feedback contacts for lock states

The number and type of signals as well as the maximum load of the switching contacts can be found in chapters 5.1 and 5.3.

Sabotage monitoring

The connection cable is monitored to check for interruptions in the cable. In addition, the cover of the motor lock control can be integrated in the monitoring process by means of a cover lift-off contact.

4 Technical data

4.1 IQ lock

ID No.	See price list
IQ lock function	<ul style="list-style-type: none"> ▫ Panic function ▫ Mechanical self-locking ▫ Split cross latch
Additional function IQ lock EL	<ul style="list-style-type: none"> ▫ Motor-driven unlocking < 1 second ▫ Three operating modes (night / secured by day / permanently unlocked) ▫ Electrical time-out function ▫ Feedback contacts for lock states ▫ Optional sabotage monitoring or cylinder contact
Additional function IQ lock EM	<ul style="list-style-type: none"> ▫ Outside handle, electronically engageable ▫ Feedback contacts for lock states ▫ Optional sabotage monitoring or cylinder contact
Additional function IQ lock C	<ul style="list-style-type: none"> ▫ Feedback contacts for lock states ▫ Optional sabotage monitoring or cylinder contact
Dimensions (without face plate)	15.2 × 165 × backset + 15.5 mm (W × H × D)
Operating voltage	IQ lock EL: 12–24 V DC IQ lock EM: 12 V DC, 24 V DC, 48 V DC IQ lock C: 24 V DC
Current consumption IQ lock EL	160 mA at 12 V DC max. 1 A briefly at 12 V DC 80 mA at 24 V DC max. 500 mA briefly at 24 V DC (incl. MST 210)
Current consumption IQ lock EM	350 mA at 12 V DC 210 mA at 24 V DC 105 mA at 48 V DC
Max. contact rating of the relays	30 V DC / 500 mA
Resistance to forcing	10,000 N
Technical specification	<ul style="list-style-type: none"> ▫ Perfectly closing doors with door closer ▫ Always use genuine GEZE strike plate ▫ Clearance between face plate and strike plate 3–7 mm ▫ No door seals which cause pressure ▫ Crossbar projection must be horizontal
Climate / surroundings	<ul style="list-style-type: none"> ▫ Service temperature: –10 ... +50 °C, max. 75 % rel. hum., no condensation ▫ Storage temperature: –20 ... +50 °C, max. 75 % rel. hum., no condensation ▫ Sprinkling not permissible ▫ Not suitable for use in very dusty atmosphere (e.g. corn mills) ▫ Not suitable for use in aggressive or highly corrosive atmosphere (e.g. chlorinated swimming baths) ▫ Not suitable for vibration (e.g. vehicles) ▫ Cannot be used in potentially explosive atmospheres
Approvals	<ul style="list-style-type: none"> ▫ EN 179 Emergency exit devices ▫ EN 1125 Panic exit devices ▫ EN 14846 Electro-mechanical locks ▫ EN 1634 Fire resistance and smoke protection test ▫ VdS ▫ CE

4.2 Rod drive IQ AUT

ID No.	153755
Function	Motor-driven unlocking of the passive leaf (< 1.8 seconds)
Dimensions (without face plate)	42 × 400 × 15.5 mm (W × H × D)
Operating voltage	24 V DC (±15 %)
Current consumption	max. 1.5 A at 24 V DC
Resistance to forcing	10,000 N
Technical specification	<ul style="list-style-type: none"> ▫ Perfectly closing doors with door closer ▫ Always use genuine GEZE strike plate ▫ Clearance between face plate and strike plate 3–7 mm ▫ No door seals which cause pressure
Climate / surroundings	<ul style="list-style-type: none"> ▫ Service temperature: –20 ... +60 °C, max. 75 % rel. hum., no condensation ▫ Sprinkling not permissible ▫ Not suitable for use in very dusty atmosphere (e.g. corn mills) ▫ Not suitable for use in aggressive or highly corrosive atmosphere (e.g. chlorinated swimming baths) ▫ Not suitable for vibration (e.g. vehicles) ▫ Cannot be used in potentially explosive atmospheres
Approvals	<ul style="list-style-type: none"> ▫ EN 179 Emergency exit devices ▫ EN 1125 Panic exit devices ▫ EN 1634 Fire resistance and smoke protection test ▫ CE

4.3 Power supply NT 19.2-24

ID No.	089862
Function:	Power supply for IQ lock EL / IQ lock EL DL
Dimensions:	92 × 32 × 32 mm (W × H × D)
Operating voltage:	<ul style="list-style-type: none"> ▫ Primary: 230 V AC; current consumption 250 mA ▫ Secondary: 24 V DC; current output 800 mA; 19.2 W
IP rating	IP54

4.4 Power supply NT 6.3-24

ID No.	109637
Function:	Power supply for IQ lock EM / IQ lock EM DL
Housing dimensions:	88 × 88 × 53 mm (W × H × D, surface-mounted housing)
Operating voltage:	<ul style="list-style-type: none"> ▫ Primary: 230 V AC (±15 %); 150 mA; 50 Hz; 100 % ED ▫ Secondary: 24 V DC (–8 %, +5 %); 260 mA 6,3 W; 100 % ED
Current consumption (brief):	230 V AC; max. 0.3 A
Protection rating:	II
IP rating	IP55
Environmental conditions:	<ul style="list-style-type: none"> ▫ Service temperature: 0 ... +60 °C ▫ Storage temperature: –20 ... +60 °C ▫ REL: humidity max. 93% at 40°C
Directives / standards:	<ul style="list-style-type: none"> ▫ DIN EN 50 081-1, DIN EN 55011, EN 50082-2, ▫ DIN EN 61 000-4-2, -3, -4, -5, -6, -11 ▫ DIN EN 60 950
Terminals:	<ul style="list-style-type: none"> ▫ Primary (L,N): light connection terminal 1.0...2.5 mm², rigid ▫ Secondary: (24 V DC red, GND black) flexible cable

4.5 Power supply NT DR-30-24

ID No.	151425
Function:	Power supply for IQ AUT
Dimensions:	78 × 93 × 56 mm (W × H × D)
Operating voltage:	<ul style="list-style-type: none"> ▫ Primary: 230 V AC (±15 %); 480 mA; 50 Hz ▫ Secondary: 24 V DC; 1.5 A; 36 W
Environmental conditions:	<ul style="list-style-type: none"> ▫ Service temperature: -20 ... +60 °C ▫ REL: humidity 20 ... 90%
Installation:	▫ Fixing to top hat rail DIN TS-35 / 7.5 or 15 possible

4.6 Power supply NT 2.5 A-24 V HS

ID No.	151424
Function:	Power supply for several components
Dimensions:	78 × 93 × 56 mm (W × H × D)
Supply voltage:	230 V
Power:	60 W
Output voltage:	21.6 ... 26.4 V DC ±1% adjustable
Output current:	2.5 A
Connection:	Screw terminals 2.5 mm ²
Service temperature:	-10 ... +50 °C
Version:	Top hat rail casing

4.7 Motor lock control MST 210



► Follow the mechanical installation instructions for motor lock IQ lock.

ID No.	103671
Function	Control unit for motor lock IQ lock EL / IQ lock EL DL
Dimensions	140 × 140 × 79 mm (W × H × D)
Weight	0.3 kg.
Operating voltage	12–24 V DC (-10%, +15%)
Current consumption	<ul style="list-style-type: none"> ▫ 160 mA at 12 V DC ▫ max. 1 A briefly at 12 V DC ▫ 80 mA at 24 V DC ▫ max. 500 mA briefly at 24 V DC (incl. IQ lock)
Terminals	Plug/screw terminals, max. cable cross-section 1 mm ²
Max. contact rating of the relays (X2)	30 V DC / 1 A
Max. lock switch contact load (X3)	30 V DC / 500 mA
Max. length of connection cable to the lock	10 m
IP rating in accordance with DIN 40050	IP54
Environmental conditions in accordance with DIN 40040	<ul style="list-style-type: none"> ▫ Service temperature: JWF (-10...+50°C, max. 75% rel. hum., no condensation) ▫ Storage temperature: HPE (-25...+85°C, max. 95 % rel. hum., no condensation)

5 Electrical connection

- ▶ Use wire-end ferrules for wire cores.

- i** Work on the electrical equipment (IQ AUT, IQ lock EL, IQ lock EL DL, IQ lock EM, IQ lock EM DL) may only be performed by a qualified electrician.
- The electrical connection work must be carried out in accordance with the relevant regulations of the VDE and local utility companies.

The electrical connection for the motor locks (IQ AUT, IQ lock EL, IQ lock EL DL) and lever locks (IQ lock EM, IQ lock EM DL) must be carried out according to the enclosed wiring diagrams.

The technical data listed (see chapter 4) must be taken into account:

- The nominal voltage of the motor / magnet in the lock with the output voltage of the power supply or device to be actuated.
- The power consumption of the motor / magnet with the output power of the power supply or device to be actuated.
- The maximum switching power of the switching contacts with the respective power to be switched.

5.1 Motor lock control MST 210 in connection with IQ lock EL / IQ lock EL DL

5.1.1 Connections

X10 Cover monitoring (OUT)

- 23 NC
- 22 COM

X8 Cylinder contact / Sabotage (OUT)

- 25 NO / NC
- 24 COM

X5 Door contact (IN)

- 6 NO / NC
- 2 24V ext.

X4 Smoke detector (IN)

- 9 NC
- 8 COM

- ▶ A jumper must be inserted if no smoke detector is used.

See the following pages for further application options (24V)

X3 Bolt switching contact (OUT)

- 21 COM
- 20 NO

X6 Mode of operation (IN)

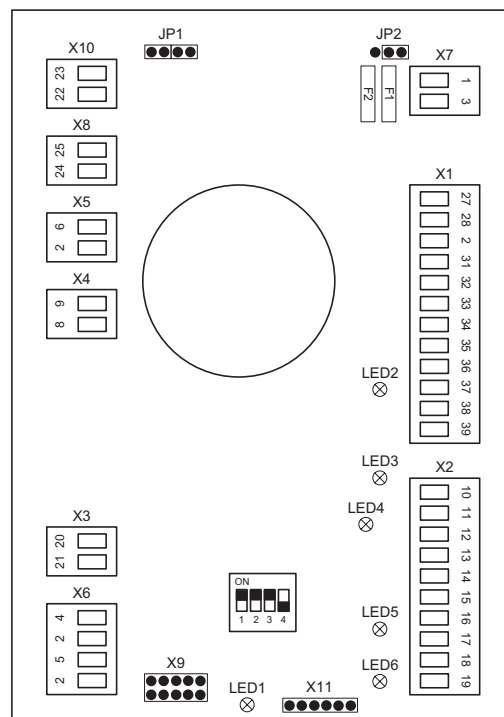
- 4 Day / night
- 2 24V ext.
- 5 Release
- 2 24V ext.

Jumper

- JP1 Smoke detector function
- JP2 12 V / 24 V

X7 Supply

- 1 GND in
- 3 12V / 24V DC in



X1 Lock

- 27 Cable black
- 28 Cable red
- 2 Cable blue
- 31 Cable pink
- 32 Cable grey
- 33 Cable yellow
- 34 Cable green
- 35 Cable brown
- 36 Cable white
- 37 Cable violet
- 38 Cable red/blue
- 39 Cable grey/pink

X2 Outputs

- 10 Relay day/night COM
- 11 Relay day/night NO
- 12 Relay release COM
- 13 Relay release NO
- 14 Relay fault/alarm COM
- 15 Relay fault/alarm NC
- 16 Relay door handle COM
- 17 Relay door handle NO
- 18 Relay door status COM
- 19 Relay door status NO

LEDs

- LED1 Supply voltage
- LED2 Day/night (day=on)
- LED3 Release
- LED4 Fault/alarm
- LED5 Door handle
- LED6 Door status

- X9 RS485 interface
- X11 Programming interface

LED displays

Function	Cause	Consequence	Remedy
LED1 off	Power supply interrupted	No control function	Check voltage source
LED1 on		Control and lock are working normally	
LED1 flashing evenly		Fault	Check electrical connections
LED2 on	Day circuit active	Bolt not extended and latches in place	
LED2 off	Night circuit active	Bolt extended, door locked	
LED3 on	Activation active	Door can be opened	
LED3 off	Night circuit active	Door bolt extended (locked)	
LED4 on		Fault-free lock function	
LED4 off		Fault/alarm	
LED5 on		Handle is actuated	
LED6 on		Door closed (auxiliary latch and door contact closed)	

Setting of the release time

Opening time "x" = 1 s

Setting options for release time:

Switch	Switch position	Release time
1	ON	x + 1 s
2	ON	(x) + 2 s
3	ON	(x) + 5 s
4	ON	(x) + 10 s

Example:

Set release time = 9 s



Release times of 1–19 s can thus be set with a pulse control of the release input terminals X6.2 and X6.5. If a longer release time or continuous release is required, this is to be realised by a correspondingly long actuation time or a continuous contact. Setting of the release time is also used to set the duration of the contacting of the release relay (X2.12 and X2.13).

Inputs

Terminal	Signal	Function
X7.1	GND in	GND supply
X7.3	12 V / 24 V in	12 V / 24 V DC supply
X5.2	24 V external	Contact connected: Door closed
X5.6	External door contact	
X4.8	Smoke detectors	Connection of smoke detector with potential-free contact or as 24 V supply voltage (see Page 17)
X4.9	Smoke detector	
X6.2	24 V external	Contact connected: Operating mode release
X6.5	Release	Contact open: Operating mode as selected below
X6.2	24 V external	Contact connected: "Secured by day" operating mode
X6.4	Night / day	Contact open: "Night" mode of operation

Outputs

Terminal	Signal	Contact	Function
X2.10	Relay night / day	NO	Contact closed: Day operating mode
X2.11	Relay night / day	COM	Contact open: Night operating mode
X2.12	Relay release / activation Door drive	NO	Contact closed: Mode of operation release / door can be passed unlocked
X2.13	Relay release / activation Door drive	COM	Contact open: No release
X2.14	Relay fault / power failure	NC	Contact open: no fault/no alarm, normal operating state
X2.15	Relay fault / power failure	COM	Contact closed with: power failure, system failure, alarm
X2.16	Door handle	NO	Contact closed: Door handle actuated
X2.17	Door handle	COM	Contact open: Door handle not actuated
X2.18	Door contact	NO	Contact closed: Door contact and auxiliary latch actuated
X2.19	Door contact	COM	Contact open: Door contact or auxiliary latch not actuated
X3.20	Deadbolt contact	NO	Contact closed when bolt extended 95% Contact is not evaluated by control.
X3.21	Deadbolt contact	COM	
X8.25	Cable monitoring NC/ cylinder contact NO	NO	Cylinder contact closes a contact when the installed cylinder is turned or optional cable monitoring takes place
X8.24	Cable monitoring / Cylinder contact	COM	
X10.23	Cover monitoring / MST 210	NC	Casing cover monitoring, closes a contact when the casing cover of the MST 210 is opened.
X10.22	Cover monitoring / MST 210	COM	

Setting daytime operation

If the contact between terminals X6.2 and X6.4 is closed (permanent contact) the lock runs in daytime operation. If the contact is opened, the lock runs in night-time operation. This means that the lock automatically locks every time the door is closed.

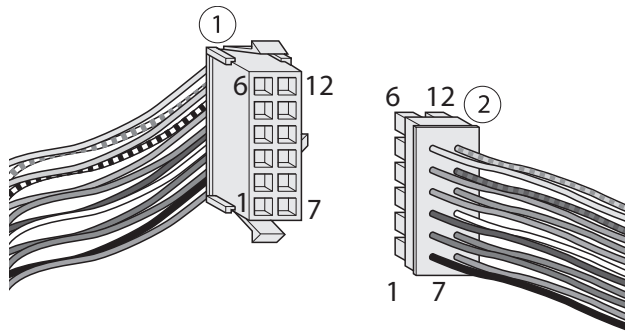
Setting permanently unlocked

If the contact between terminals X6.5 and X6.2 is closed (permanent contact) the motor lock runs in permanently unlocked mode. If the contact is opened, the lock runs in daytime or night-time operation depending on the pre-set (contact between the terminals X6.2 and X6.4 closed or open).

5.1.2 Terminal assignment for connection cable lock IQ lock EL to MST 210, terminal strip X1

Terminals MST 210	Cable colour	Connector IQ lock EL	Description/function
X1.27	Cable black	PIN 1	Motor –
X1.28	Cable red	PIN 2	Motor +
X1.2	Cable blue	PIN 3	+24 V
X1.31	Cable pink	PIN 4	Basic setting (night-time operation)
X1.32	Cable grey	PIN 5	Daytime operation
X1.33	Cable yellow	PIN 6	Release
X1.34	Cable green	PIN 7	Door handle
X1.35	Cable brown	PIN 8	Auxiliary latch NO
X1.36	Cable white	PIN 9	Locked
X1.37	Cable violet	PIN 10	Locked
X1.38	Cable red/blue	PIN 11	Cable monitoring or cylinder contact can be selected via switch
X1.39	Cable grey/pink	PIN 12	Sabotage or cylinder contact can be selected via switch

Connector IQ lock EL



PIN	Connector IQ lock EL / IQ lock EL DL (1)	Connector power supply cable (2)
1	black	black
2	red	red
3	blue	blue
4	orange	pink
5	grey	grey
6	yellow	yellow
7	green	green
8	brown	brown
9	white	white
10	violet	violet
11	white/black	red/blue
12	white/brown	grey/pink

5.1.3 Low-pass filter (TPF)

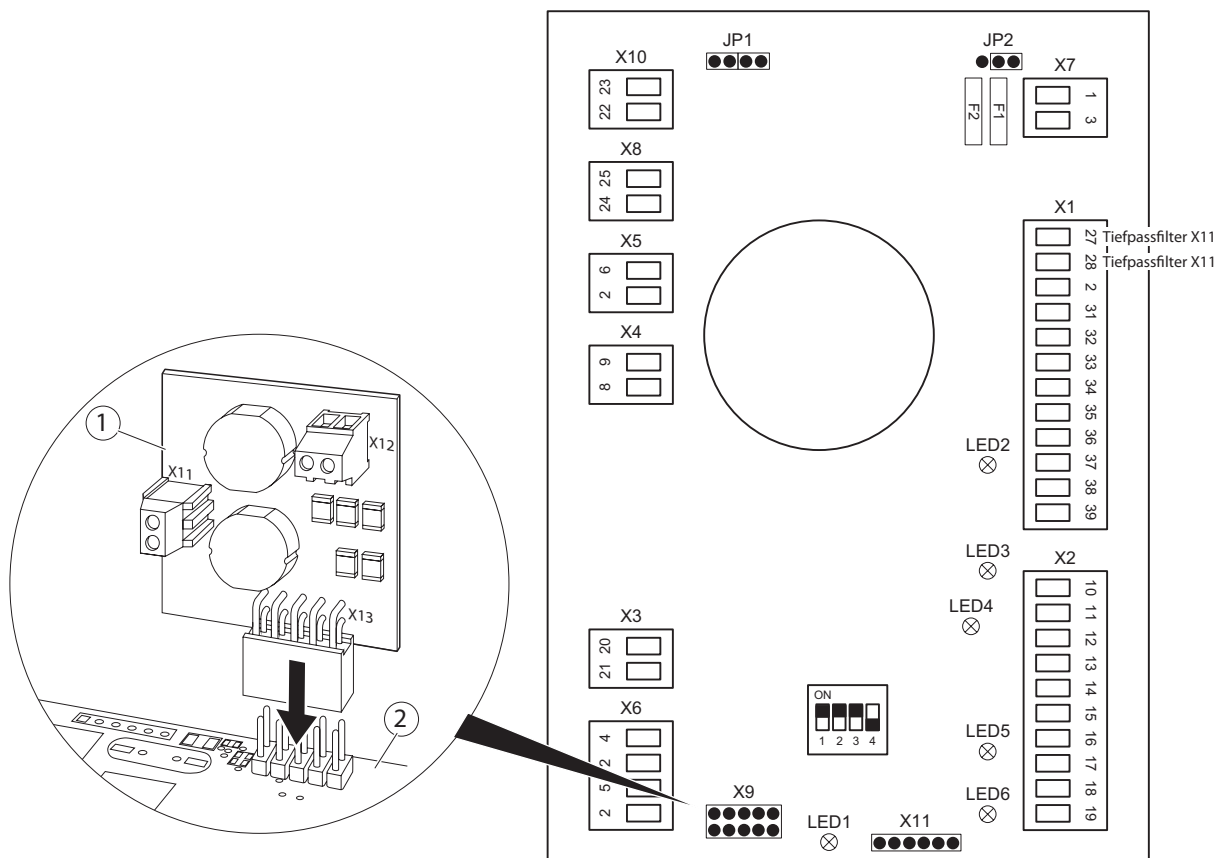


New from mid-2014.

The low-pass filter (TPF) ensures improved activation of the motor lock IQ lock EL / IQ lock EL DL. Here, the motor control cable (red and black cables) are not connected directly to the motor lock control MST 210, they are connected with terminal X12 of the additional PCB TPF.

The TPF has been optimised for the new motor drive unit in the lock and for the new software (see chapter 5.1.4 and chapter 5.1.6). Taking the conditions listed in chapter 5.1.7 into account, the TPF can also be used for locks with an older building design.

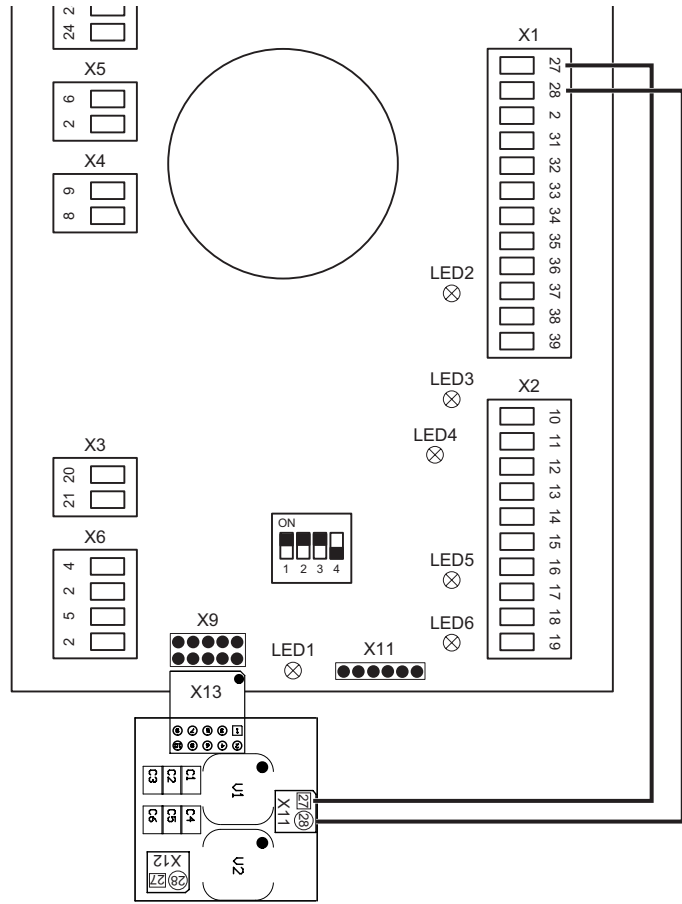
Insert TPF board on MST 210



► Insert the TPF board (1) onto slot X9 of the motor lock control MST 210 (2).

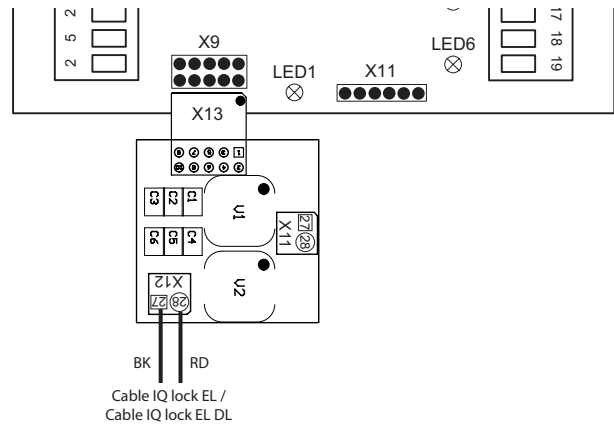
Wire TPF to MST 210

- ▶ Wire terminal X11 (TPF) to terminal X1 (MST 210).



Wire TPF with motor lock IQ lock EL / IQ lock EL DL

- ▶ Connect the red and black cables from motor lock IQ lock EL / IQ lock EL DL with X12.
- ▶ Connect all the other cables from motor lock IQ lock EL / IQ lock EL DL to terminal X1 of the motor lock control MST 210.

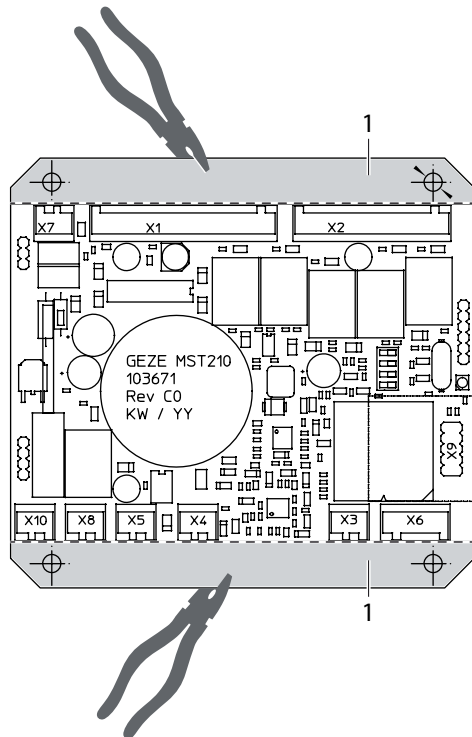


5.1.4 Motor lock control MST 210 with new software from version 3.0

In order to improve the performance of the GEZE motor locks IQ lock EL / IQ lock EL DL even further, GEZE will be delivering the motor lock control MST 210 with new software from mid-2014.

- ▶ For optimum use of this new version, take the respective combination possibilities between old and new products as listed in chapter 5.1.7 into account.

5.1.5 Install the MST210 printed circuit board under the cover extension kit



For installation of the printed circuit board under a cover extension kit, the hatched printed circuit board elements must be broken off.

- ▶ Use a pair of pliers to break off the hatched printed circuit board elements (1) at the breaking point.
- ▶ Install the printed circuit board on the mounting bracket under the cover extension kit.

5.1.6 IQ lock EL / IQ lock EL DL with new motor HW 11504x, C0

In order to improve the performance of the GEZE motor locks IQ lock EL / IQ lock EL DL even further, GEZE will be integrating a new motor from mid-2014.

- ▶ For optimum use of this new version, take the respective combination possibilities between old and new products as listed in chapter 5.1.7 into account.

5.1.7 Combination possibilities between old and new components

Due to the changes described in chapters 5.1.3 to 5.1.6 different combination possibilities can occur.

For you to be able to identify the optimum solution for your application, the following table lists the combination possibilities with respective effect on the function.



The following combinations are not permissible:

No TPF – old MST 210 software – new motor

No TPF – new MST 210 software – new motor

Motor in the lock	Software	Low-pass filter (TFP)	Note
new	new	with	optimal
new	old	with	permissible only without function "secured by day"
old	old	without	current status


The following combinations are not permissible:


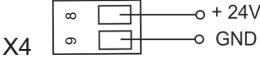


Motor in the lock	Software	Low-pass filter (TFP)	Note
new	old	without	not permissible
old	old	with	not permissible
old	new	with	not permissible

5.1.8 Smoke detectors



A smoke detector can be connected via terminal X4, signal numbers 8 and 9. The smoke detector disconnects the control from its supply voltage and thus makes the lock – no matter which mode of operation is currently set – return to its safe initial position (night) via the built-in power storage device.

Connection possibilities

 If the system is operated without smoke detectors, a jumper must be installed between terminals 8 and 9.

Jumper position JP1	Connection for smoke detector	Description
	X4 	Connection via external 24 V supply voltage (protected against reverse polarity)
	X4 	Connection via potential-free opening contact

Operating voltage

Jumper position JP2	Description
	12 V operating voltage
	24 V operating voltage

Fuses

Description	Value	Description
F1	1 A, SMF 125 V, fast-acting	Input fuse, 24 V internal
F2	1 A, SMF 125 V, fast-acting	Fuse for smoke detector external supply

5.1.9 Sabotage monitoring or cylinder contact

X8



A switch (see chapters 6.4.1 and 6.4.2) on the motor lock is used to select between the operating modes sabotage and cylinder contact. (On delivery the switch is set to cylinder contact).

There is a rectangular recess in the lockcase approx. 5 mm above the handle follower at the right of the lockcase edge. Here you can use a screwdriver (size 1) to switch the mode of operation (S = Sabotage, Z = Cylinder contact).

Cylinder contact

In the operating mode cylinder contact actuation of the lock cylinder is reproduced at terminals X8.25 and X8.24. The cover is also monitored at terminals X10.23 and X10.22.

Cylinder contact



X8

Cover monitoring



X10

Cable and cover monitoring MST 210

Terminal X10.22 is connected with terminal X8.25 to use sabotage monitoring (comprising cable and cover monitoring). The sabotage monitoring signal is then tapped via terminals X10.23 and X8.24. The circuit is opened in the event of a fault (cover open or cable fault).

Cover monitoring/cable monitoring

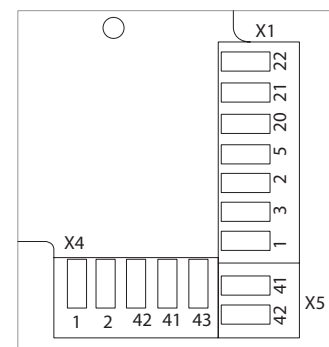


5.2 Rod drive IQ AUT

5.2.1 Connections

X1 - connection for power supply device, inputs and outputs

Connection	Wire colour	Signal	Function
X1.1	blue – BU	Voltage	GND in
X1.3	red – RD	supply	24 V (DC in)
X1.2	–	–	24 V DC
X1.5	brown – BN	Input	Release
X1.20	white – WH	Output 1	Output 1 (locked)
X1.21	grey – GY		Com
X1.22	pink – PK	Output 2	Unlocked
X1.21	grey – GY		Com

**Input**

A potential-free contact (normally opened contact) must be connected to pins X1.2 and X1.5. If the contact is actuated, IQ AUT moves to the unlocked position where it remains for the hold-open time. The time starts once the contact has been disconnected.

Output

IQ AUT has two outputs with the potential which is connected to pin X1.21. The output “unlocked” is closed when the drive rod is in the unlocked position. Output 1 can be set (see Service menu).

X4 - connection for ST220

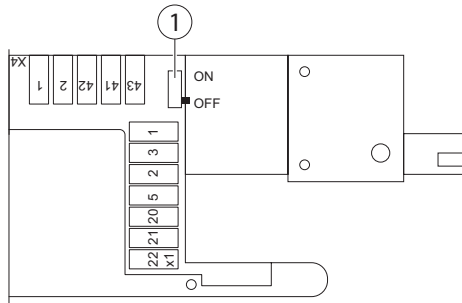
Connection	Signal	Function
X4.1		GND
X4.2		24V DC
X4.42	Connection for ST220	RS485-A
X4.41		RS485-B
X4.43		–

X5 - connection for GEZE-BUS (e.g.: IO 320)

Connection	Wire colour	Signal	Function
X5.42	yellow – YE	GEZE-BUS	RS485-A
X5.41	green – GN		RS485-B

DIP switch (back of PCB)

- The DIP switch (1) can be used to switch the terminating resistor for RS485 on and off.
- If there are more than two bus participants, the resistance must be switched on in the first and last device.



5.2.2 Service menu

Level 0	Level 1	Level 2	Value range	Factory setting	Note
Configuration	speed		45% to 85%	60%	
	Hold-open time		2 to 60 sec	10 sec	
	Language		<ul style="list-style-type: none"> ▫ English ▫ French ▫ English 	English	
	Output 1		<ul style="list-style-type: none"> ▫ Locked ▫ SW + 6 sec ▫ Alarm 	Locked	See below
	Fire protection		Yes/no	no	See below
System information	Maintenance		Yes/no		Yes: When maintenance is due
	System init.		Yes/no		Yes: When system is initialised
	Motor replaced		Yes/no		Yes: When the motor was replaced
	Cycle		[Number of cycles]		The current number of cycles
Product information	HW ver.		Vx.x		
	SW ver.		Vx.x		
	Ser. no.		xxxxxx		
Diagnosis	Motor state	Current (A)			The value is updated as long as the enter key on ST220 is kept pressed.
		Temperature			
		Duration (sec)			
		Current state			
	Sensor state	[see below]			
Alarm memory	[Cycle] [Alarm description]			See fault description	
Command	Start motor				
	Acknowledge alarm				
	Factory setting				

Configuration/output 1

Output 2 is set permanently to the feedback “unlocked”. Output 1 can be configured.

- “Locked”: The output is closed when the drive rod of IQ AUT is in the locked position.
- “SW + 6 sec”: The output becomes active when the input button is pressed. The output is reset after 6 seconds.
- “Alarm”: The output is active when an alarm is pending.

Configuration/fire protection

When this option is active, IQ AUT can only be controlled via the BUS interface so that it can establish faults in transmission (e.g. cable break, short-circuit etc.). For this, you need an IO 420 which is able to send suitable commands to IQ AUT and to control it.

Diagnosis/sensor state

The rod drive IQ AUT has 5 sensors inside. This menu shows which sensor is currently active.

To update the table:

- ▶ Keep the “Enter” key pressed.

This menu is relevant for service technicians.

	Rod	Wheel
Lckd.:	*	
Unlckd. 1:		
Unlckd. 2:	-	*

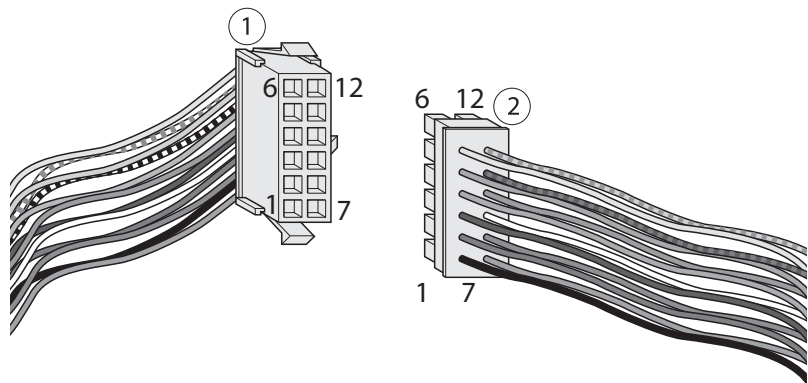
5.3 Lever lock IQ lock EM

Connection cable



If polarity is reversed the outside handle cannot be engaged (reverse polarity protection).

- 1 Connector IQ lock EM / IQ lock EM DL
- 2 Connector power supply cable



PIN	Connector IQ lock EM (1)	Connector power supply cable (2)	Function	Contact
1	black	black	Magnet – GND supply	
2	red	red	Magnet + 24 V DC	
3	blue	blue	Door handle contact (NO)	
7	green	green	Contact closed: Door handle actuated	
4	orange	pink	Release contact (NO)	
6	yellow	yellow	Contact closed: Door handle engaged - door can be unlocked by actuating the handle	
5	grey	grey	Auxiliary latch (NO)	
8	brown	brown	Contact closed: Auxiliary latch actuated (door closed)	

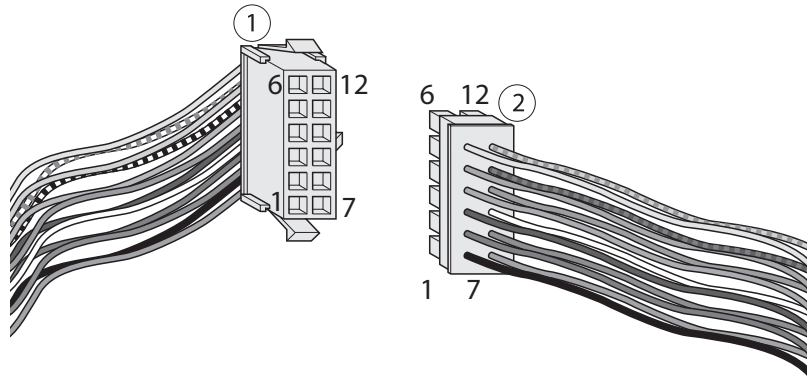
9	white	white	Deadbolt contact (NC)	
10	violet	violet	Contact closed: Bolt extended Contact open: Bolt retracted	
11	white/black	red/blue	Cylinder contact (NO)	
12	white/brown	grey/pink	Contact closed: Cylinder contact actuated	

5.4 Contact lock IQ lock C

Connection cable

! If polarity is reversed the outside handle cannot be engaged (reverse polarity protection).

- 1 Connector IQ lock C / IQ lock C DL
- 2 Connector power supply cable

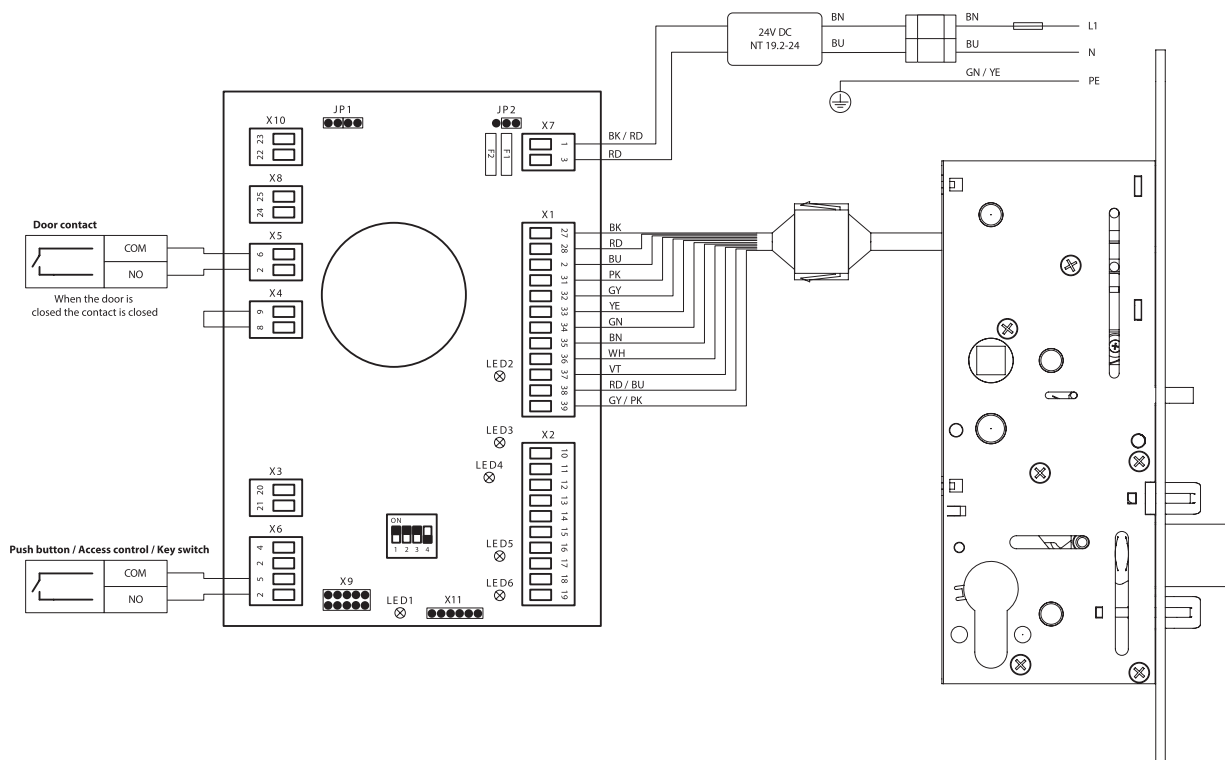


PIN	Connector IQ lock C (1)	Connector power supply cable (2)	Function	Contact
3	blue	blue	Door handle contact (NO)	
7	green	green	Contact closed: Door handle actuated	
5	grey	grey	Auxiliary latch (NO)	
8	brown	brown	Contact closed: Auxiliary latch actuated (door closed)	
9	white	white	Deadbolt contact (NC)	
10	violet	violet	Contact closed: Bolt extended Contact open: Bolt retracted	
11	white/black	red/blue	Cylinder contact (NO)	
12	white/brown	grey/pink	Contact closed: Cylinder contact actuated	

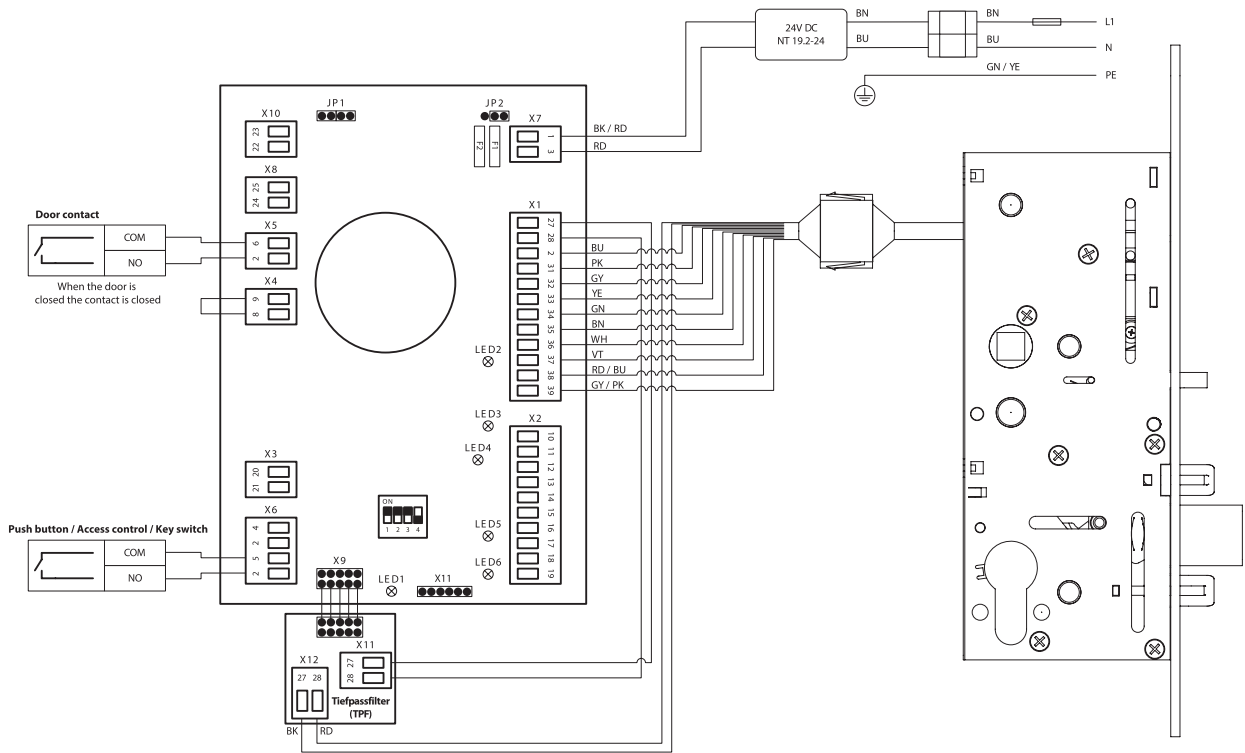
6 Wiring diagrams

Description	Chapter	Page
IQ lock EL with motor lock control MST 210	6.1	Page 23
Standard connection IQ LOCK EL / MST 210 with low-pass filter from HW 159073	6.2	Page 24
IQ lock EL with programme switch and activation	6.3	Page 25
IQ lock EL with EMD (-F, -I) and activation	6.4	Page 26
IQ lock EL with EMD (-F, -I), TZ 320 SN and activation	6.5	Page 28
IQ lock EL with TSA160 NT (-F, -I) and activation	6.6	Page 30
IQ lock EL with TSA160 NT (-F, -I), TZ 320 SN and activation	6.7	Page 32
IQ lock EL with EMD (-F, -I) and smoke switch control unit	6.8	Page 34
IQ lock EL with TSA160 NT (-F, -I) & smoke switch control unit	6.9	Page 35
IQ lock EL with smoke switch control unit (RSZ 6)	6.10	Page 36
IQ lock EL with smoke switch control unit (RSZ 5)	6.11	Page 37
IQ lock EL with smoke switch control unit FA GC 150/160	6.12	Page 38
IQ lock EL with TZ 320 SN and activation	6.13	Page 40
IQ lock EL with K600 and activation	6.14	Page 42
IQ lock EL with K600, TZ 320 SN and activation	6.15	Page 44
IQ lock AUT with K600 and activation	6.16	Page 46
IQ lock AUT with K600, TZ 320 SN and activation	6.17	Page 48
IQ lock AUT with EMD (-F, -I) and activation	6.18	Page 50
IQ lock AUT with TSA160 NT (-F, -I) and activation	6.19	Page 52
IQ lock AUT with Powerturn IS	6.20	Page 54

6.1 IQ lock EL with motor lock control MST 210

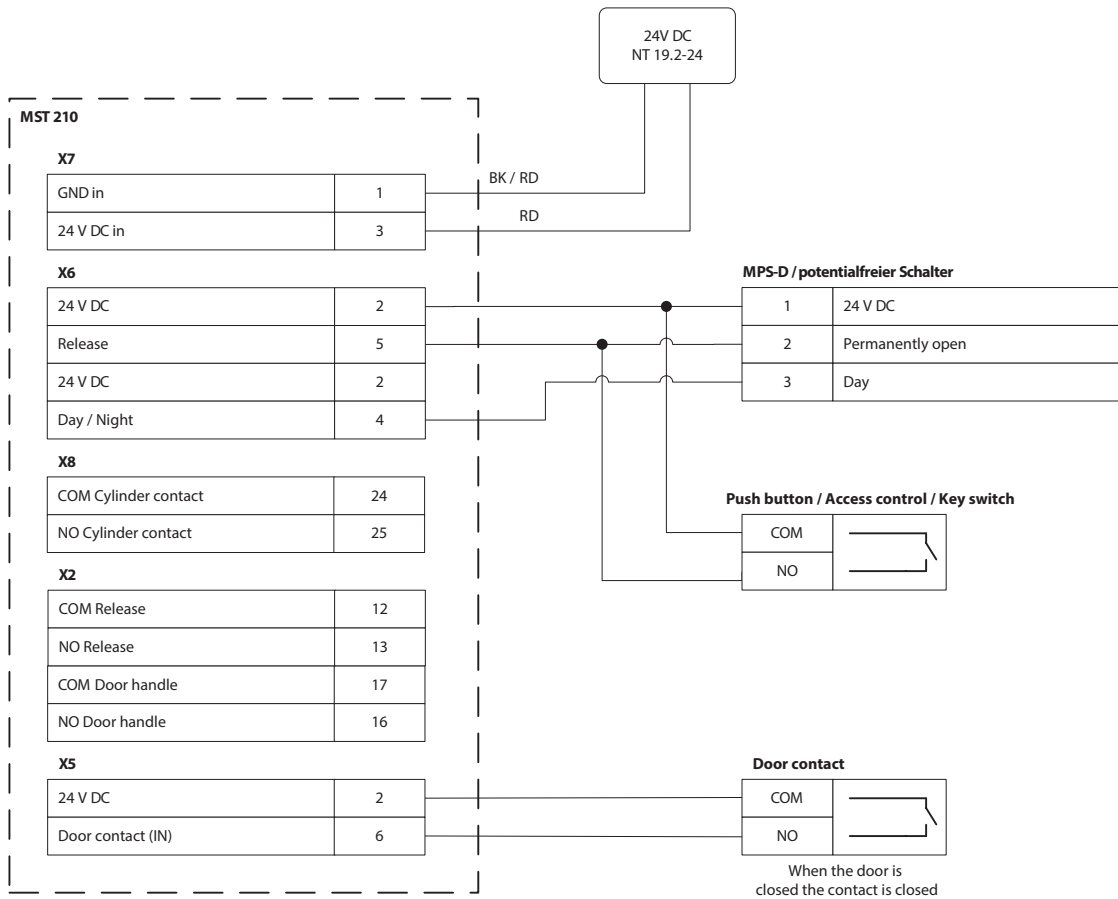


6.2 Standard connection IQ LOCK EL / MST 210 with low-pass filter from HW 159073



6.3 IQ lock EL with programme switch and activation

 ▶ Follow the installation instructions for IQ lock.



6.4 IQ lock EL with EMD (-F, -I) and activation

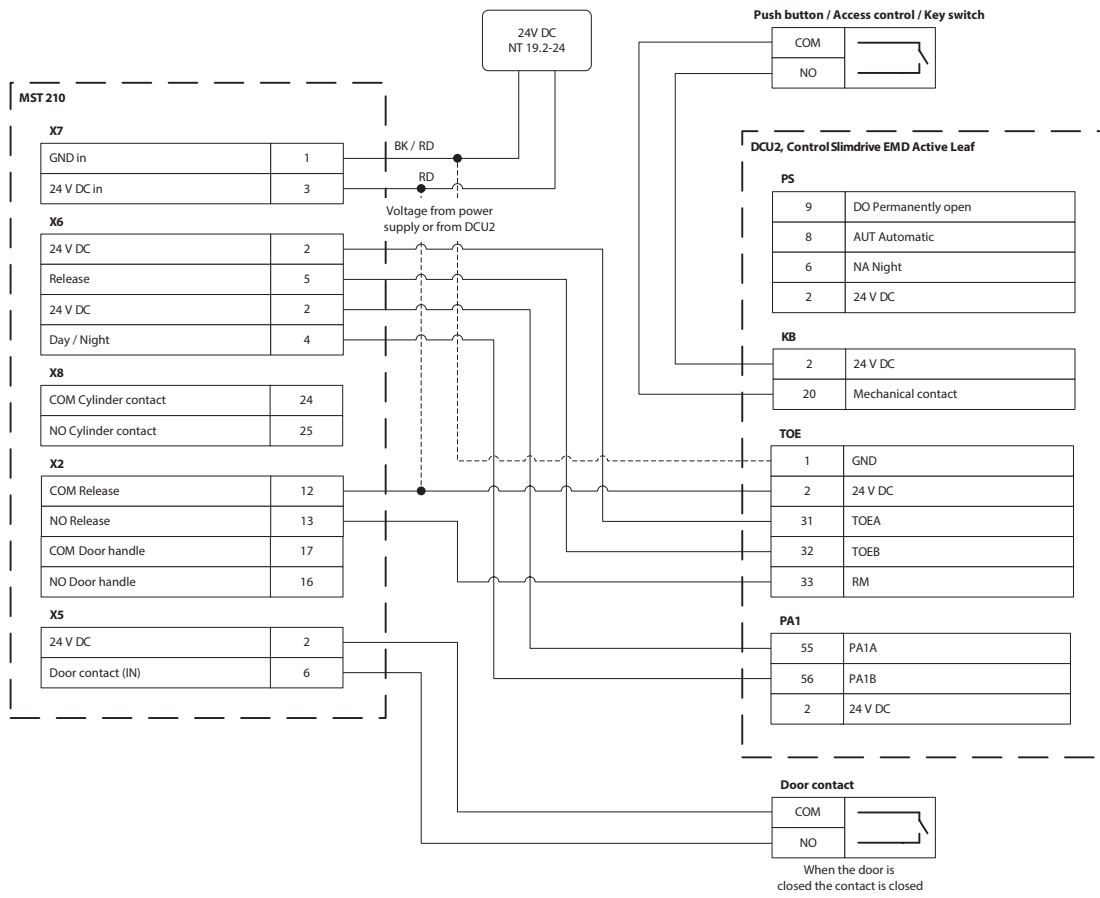


- ▶ Follow the installation instructions for IQ lock.
- ▶ Heed the wiring diagram for EMD, EMD-F, EMD Invers.

- ▶ For 2-leaf door drives connect the control to the active leaf.
- ▶ Set the parameters on the control DCU2, DCU2-F, DCU-I:
 - with DPS: Set $\overline{R1}$ to $\overline{1B}$ (day-night switchover), parameter \overline{rr} (bar message) to $\overline{02}$ (electric strike) and $\overline{t0}$ (electric strike) to $\overline{03}$ (motor lock)
 - with ST220: Set Signals → Output signals → PA1 to day/night switchover
set Signals → Input signals → Bolt contact type to electric strike
set Door parameters → Electric strike type to motor lock.
- Voltage supply of the MST 210 from separate power supply NT 19.2-24 or from the DCU2 control

EMD Invers

- If the door opening output of the EMD Invers is adjusted to motor lock, the door is only held in the closing position via the IQ lock EL, no longer via the door drive.
- The door opens through spring force in the event of manual passage after the panic bar has been pressed.
- After the hold-open time has expired, the door closes electromechanically and the IQ lock EL locks.
- The EMD also recognises without an actuation signal when the door is opened.



6.5 IQ lock EL with EMD (-F, -I), TZ 320 SN and activation

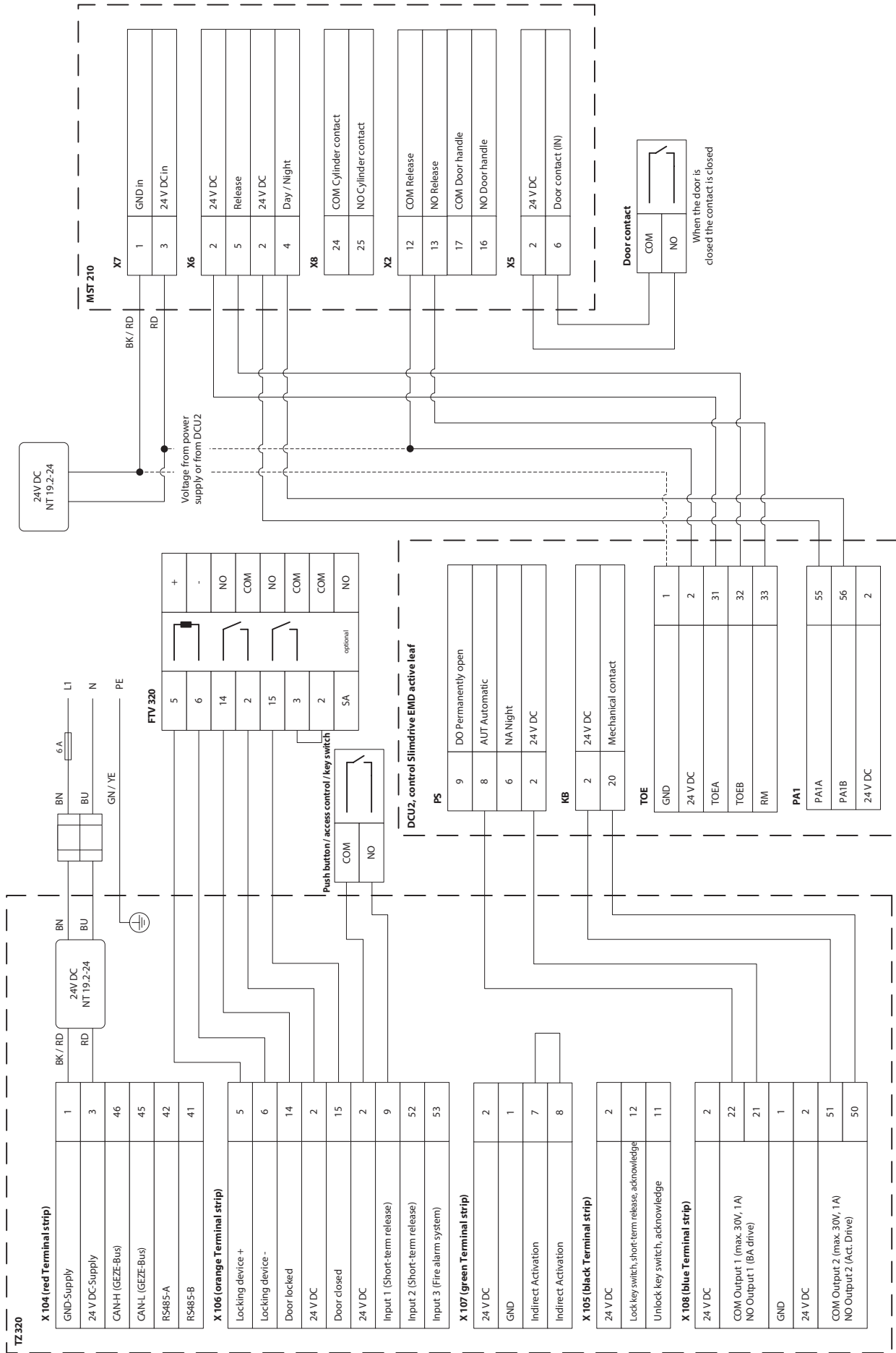


- ▶ Follow the installation instructions for IQ lock.
- ▶ Heed the wiring diagram for EMD, EMD-F, EMD Invers.
- ▶ Heed the wiring diagram for GEZE SecuLogic RWS (TZ 320).

- ▶ Disconnect the internal programme switch of the door drive.
- ▶ For 2-leaf door drives connect the control to the active leaf.
- ▶ Set the parameters on the control DCU2, DCU2-F, DCU-I:
 - with DPS: Set $\overline{R1}$ to $\overline{I8}$ (day-night switchover), parameter \overline{r} (bar message) to $\overline{U2}$ (electric strike) and \overline{t} (electric strike) to $\overline{U3}$ (motor lock).
 - with ST220: Set Signals → Output signals → PA1 to day/night switchover.
Set Signals → Input signals → Bolt contact type to electric strike.
Set Door parameters → Electric strike type to motor lock.

The following settings must be made on the TZ 320:

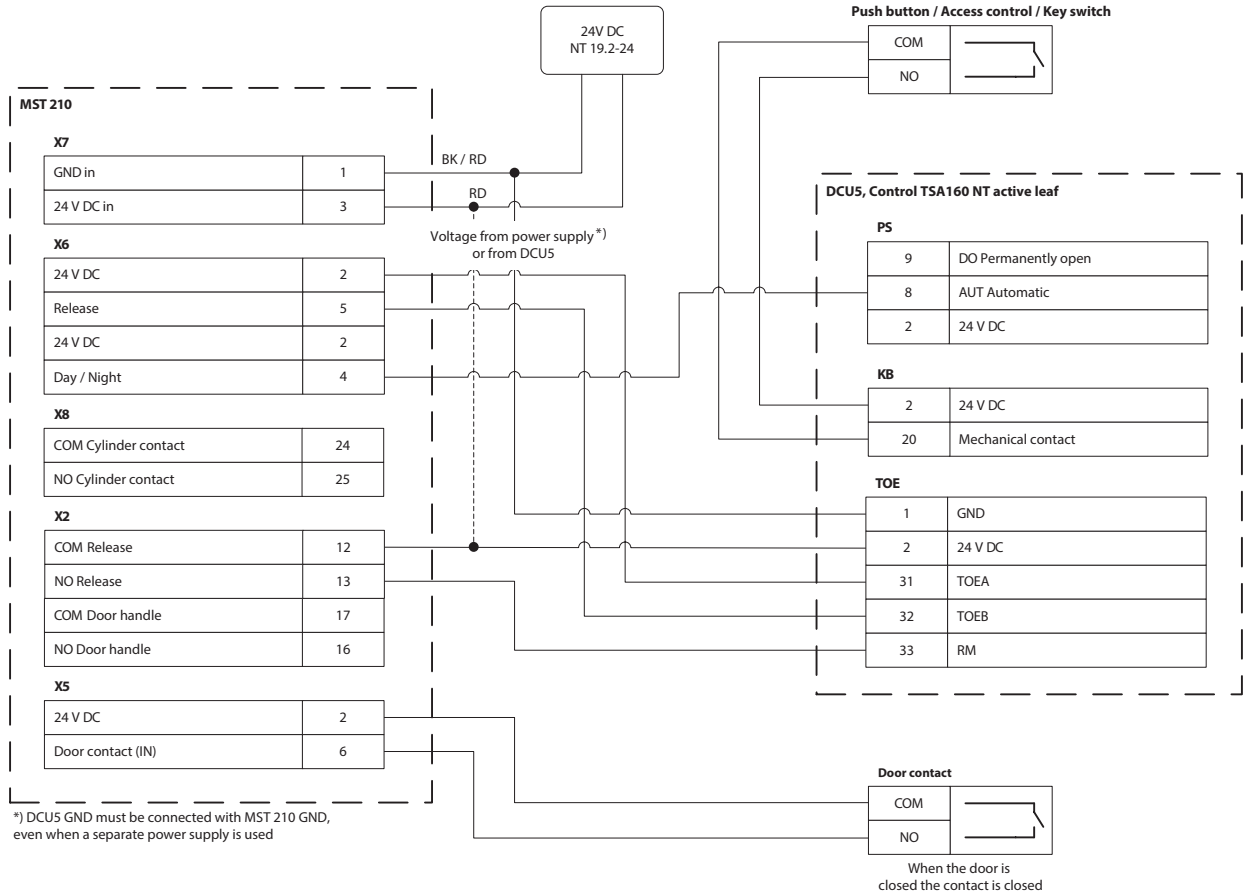
- ▶ Set Output 1 to "BA drive".
- ▶ Set Output 2 to "Activation drive".
- Voltage supply of the MST 210 from separate power supply NT 19.2-24 or from the DCU2 control



6.6 IQ lock EL with TSA160 NT (-F, -I) and activation



- ▶ Follow the installation instructions for IQ lock.
 - ▶ Heed the wiring diagram for TSA160 NT, TSA160 NT-F, TSA160 NT Invers.
-
- ▶ Disconnect the internal programme switch of the door drive.
 - ▶ For 2-leaf door drives connect the control to the active leaf.
 - ▶ Set the parameters on the control unit DCU5:
 - with DPS: Set parameter r_r (21) (bar message) to 02 (electric strike) and t_o (20) (electric strike type) to 03 (motor lock).
 - with ST220: Set Input signals → Bar message to electric strike.
Set Door parameters → Electric strike type to motor lock.
 - Voltage supply of the MST 210 from separate power supply NT 19.2-24 or from the DCU 5 control
 - The GND of DCU5 (terminal TOE no. 1) must be connected with the GND in the MST 210 (terminal X7 no. 1), even when a separate power supply is used.
 - The day function on the lock cannot be used with analogue programme switches (DPS / TPS / MPS).



6.7 IQ lock EL with TSA160 NT (-F, -I), TZ 320 SN and activation

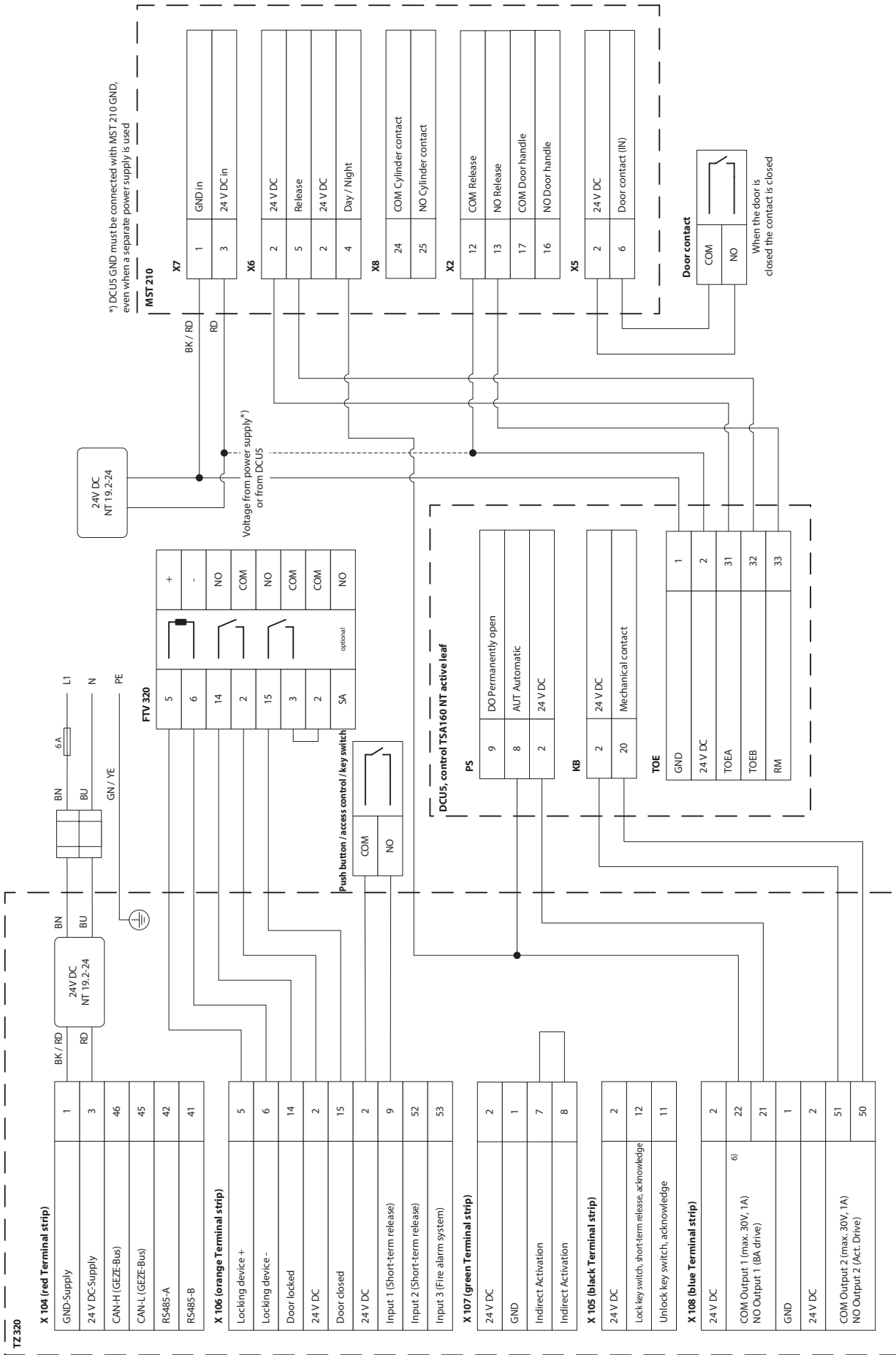


- ▶ Follow the installation instructions for IQ lock.
- ▶ Heed the wiring diagram for TSA160 NT, TSA160 NT-F, TSA160 NT Invers.
- ▶ Heed the wiring diagram for GEZE SecuLogic RWS (TZ 320).

- ▶ Disconnect the internal programme switch of the door drive.
- ▶ For 2-leaf door drives connect the control to the active leaf.
- ▶ Set the parameters on the control DCU2, DCU2-F, DCU-I:
 - with DPS: Set parameter r_r (2 I) (bar message) to 02 (electric strike) and k_a (20) (electric strike type) to 03 (motor lock).
 - with ST220: Set Input signals → Bolt signal to electric strike.
Set Door parameters → Electric strike type to motor lock.
- Voltage supply of the MST 210 from separate power supply NT 19.2-24 or from the DCU 5 control
- The GND of the DCU5 (terminal TOE no. 1)

The following settings must be made on the TZ 320:

- Set Output 1 to "BA drive"
- Set Output 2 to "Activation drive"
- Voltage supply of the MST 210 from separate power supply NT 19.2-24 or from the DCU 5 control
- The GND of DCU5 (terminal TOE no. 1) must be connected with the GND in the MST 210 (terminal X7 no. 1), even when a separate power supply is used.
- The day function on the lock cannot be used with analogue programme switches (DPS / TPS / MPS).



6.8 IQ lock EL with EMD (-F, -I) and smoke switch control unit

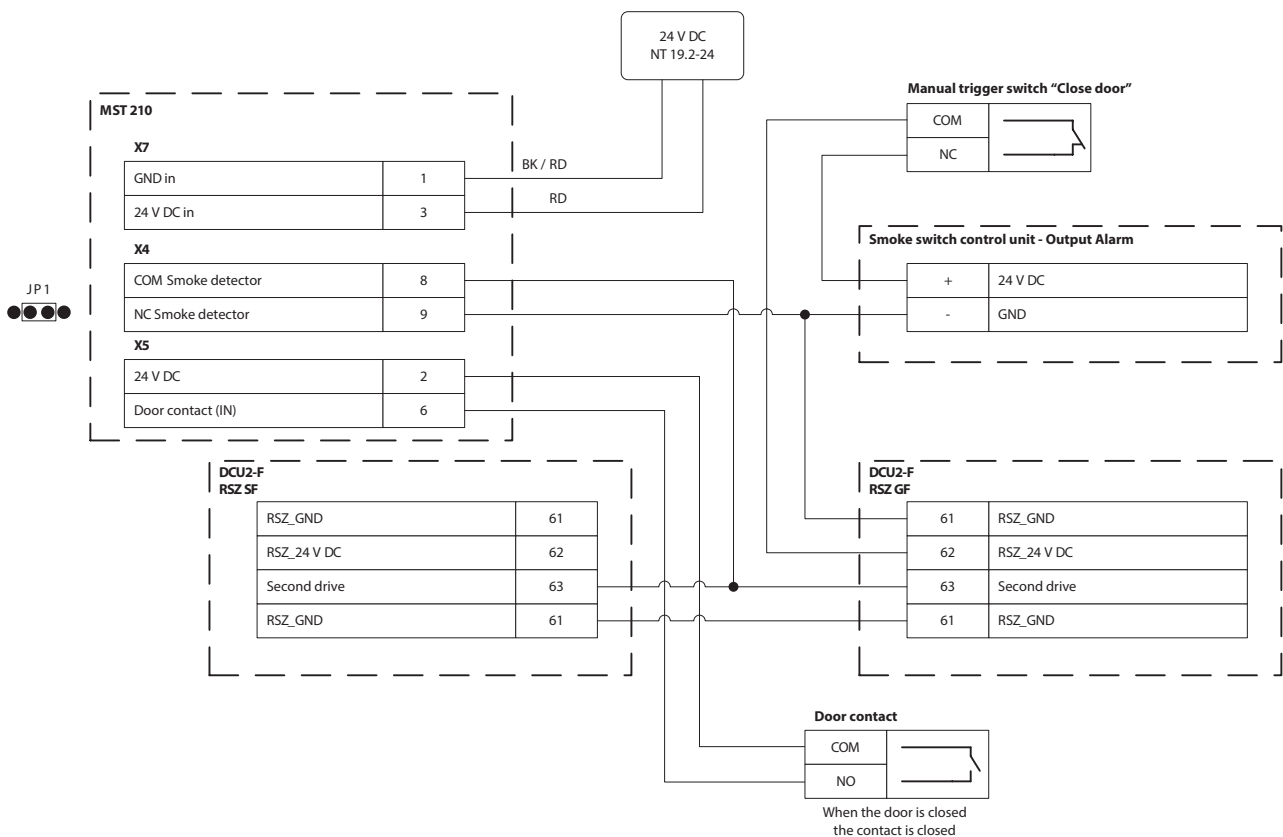


- ▶ Follow the installation instructions for IQ lock.
- ▶ Heed the wiring diagram for EMD, EMD-F, EMD Invers.

- ▶ For 2-leaf door drives connect the control to the active leaf.
- ▶ Set the parameters on the control DCU2, DCU2-F, DCU-I:
 - with DPS: Set *R1* to *1B* (day-night switchover), parameter *rr* (bar message) to *02* (electric strike) and *td* (electric strike) to *03* (motor lock)
 - with ST220: Set Signals → Output signals → PA1 to day/night switchover.
Set Signals → Input signals → Bolt contact type to electric strike
Set Door parameters → Electric strike type to motor lock
- ▶ Voltage supply of the MST 210 from separate power supply NT 19.2-24 or from the DCU 2 control
- ▶ Set Jumper (J1) of the MST 210 to 2/3 ("Connection via external 24 V supply voltage").

EMD Invers

- If the door opening output of the EMD Invers is adjusted to motor lock, the door is only held in the closing position via the IQ lock EL, no longer via the door drive.
- The door opens through spring force in the event of manual passage after the panic bar has been pressed.
- After the hold-open time has expired, the door closes electromechanically and the IQ lock EL locks.
- The EMD also recognises without an actuation signal when the door is opened.

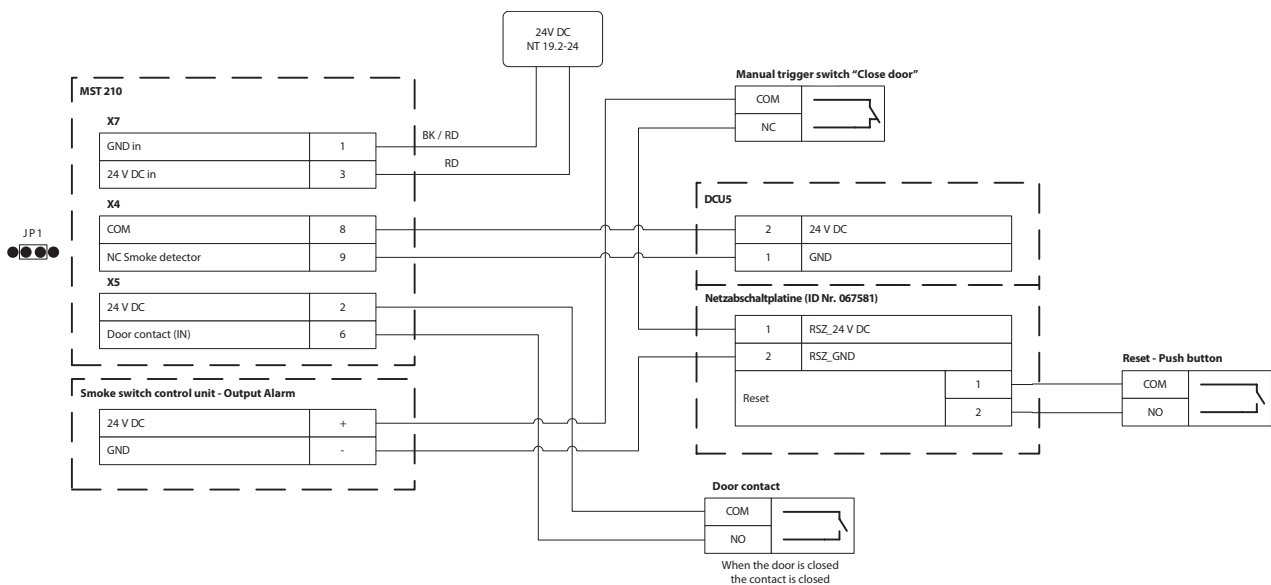


6.9 IQ lock EL with TSA160 NT (-F, -I) & smoke switch control unit



- ▶ Follow the installation instructions for IQ lock.
- ▶ Heed the wiring diagram for TSA160 NT, TSA160 NT-F, TSA160 NT Invers.

- ▶ Disconnect the internal programme switch of the door drive.
- ▶ For 2-leaf door drives connect the control to the active leaf.
- ▶ Set the parameters on the control unit DCU5:
 - with DPS: Set parameter r_r (bar message) to $\bar{0} \bar{2}$ (electric strike) and k_a (electric strike) to $\bar{0} \bar{3}$ (motor lock)
 - with ST220: Set Input signals → Bar message to electric strike.
 Set Door parameters → Electric strike type to motor lock.
- ▶ Voltage supply of the MST 210 from separate power supply NT 19.2-24 or from the DCU 5 control
- ▶ The GND of DCU5 (terminal TOE no. 1) must be connected with the GND in the MST 210 (terminal X7 no. 1), even when a separate power supply is used.
- ▶ The day function on the lock cannot be used with analogue programme switches (DPS / TPS / MPS).
- ▶ When the mode of operation "permanently open" or "day" is used, the jumper (J1) of the MST 210 must be set to 2/3 ("Connection via external 24 V DC supply voltage").
- ▶ When the mode of operation "night" is used, the smoke detector on the MST 210 must be bridged. As an option, the lock can be switched off via an on-site BMA

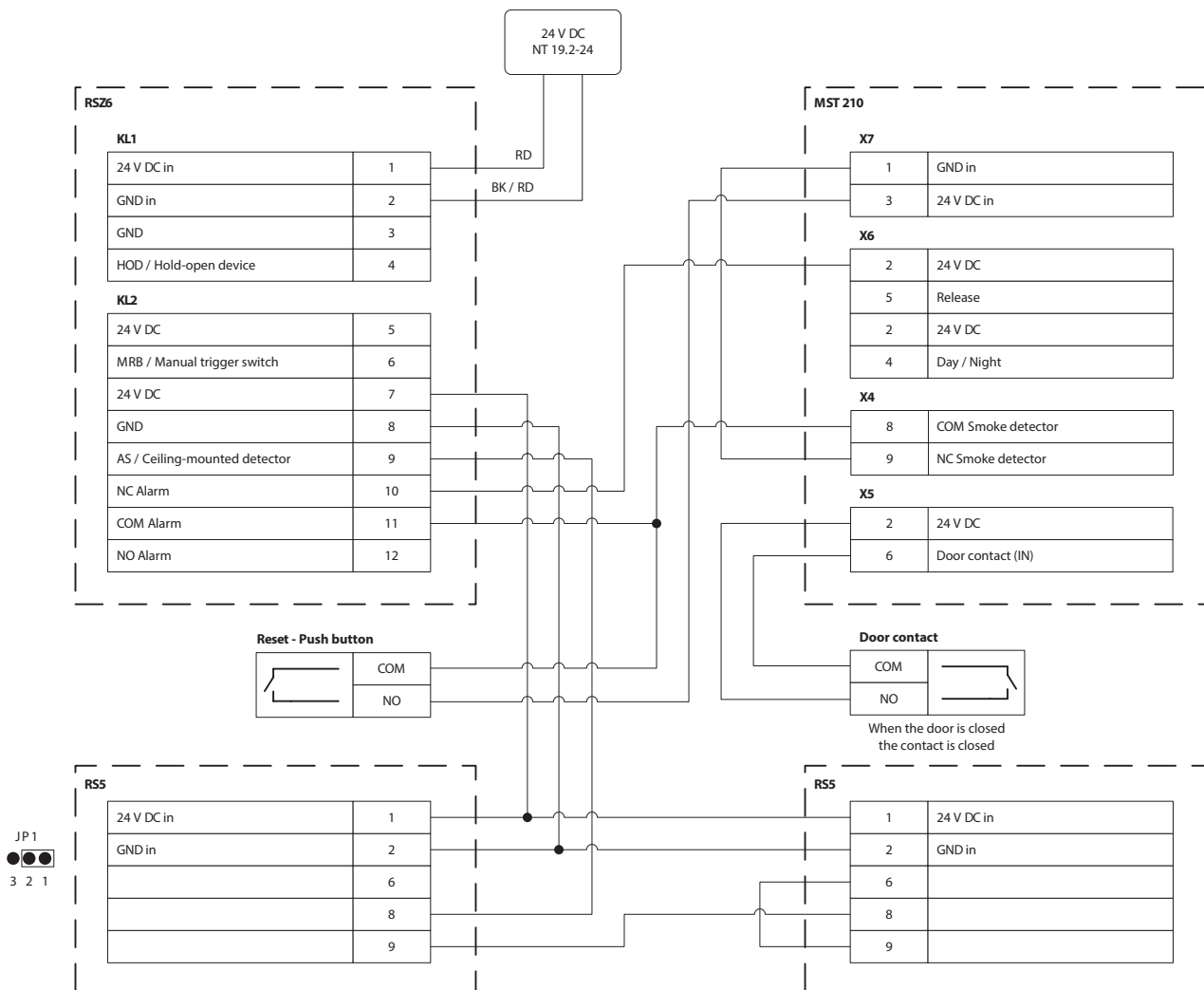


6.10 IQ lock EL with smoke switch control unit (RSZ 6)



- ▶ Follow the installation instructions for IQ lock.
- ▶ Heed the wiring diagram for the smoke switch control unit RSZ 6.

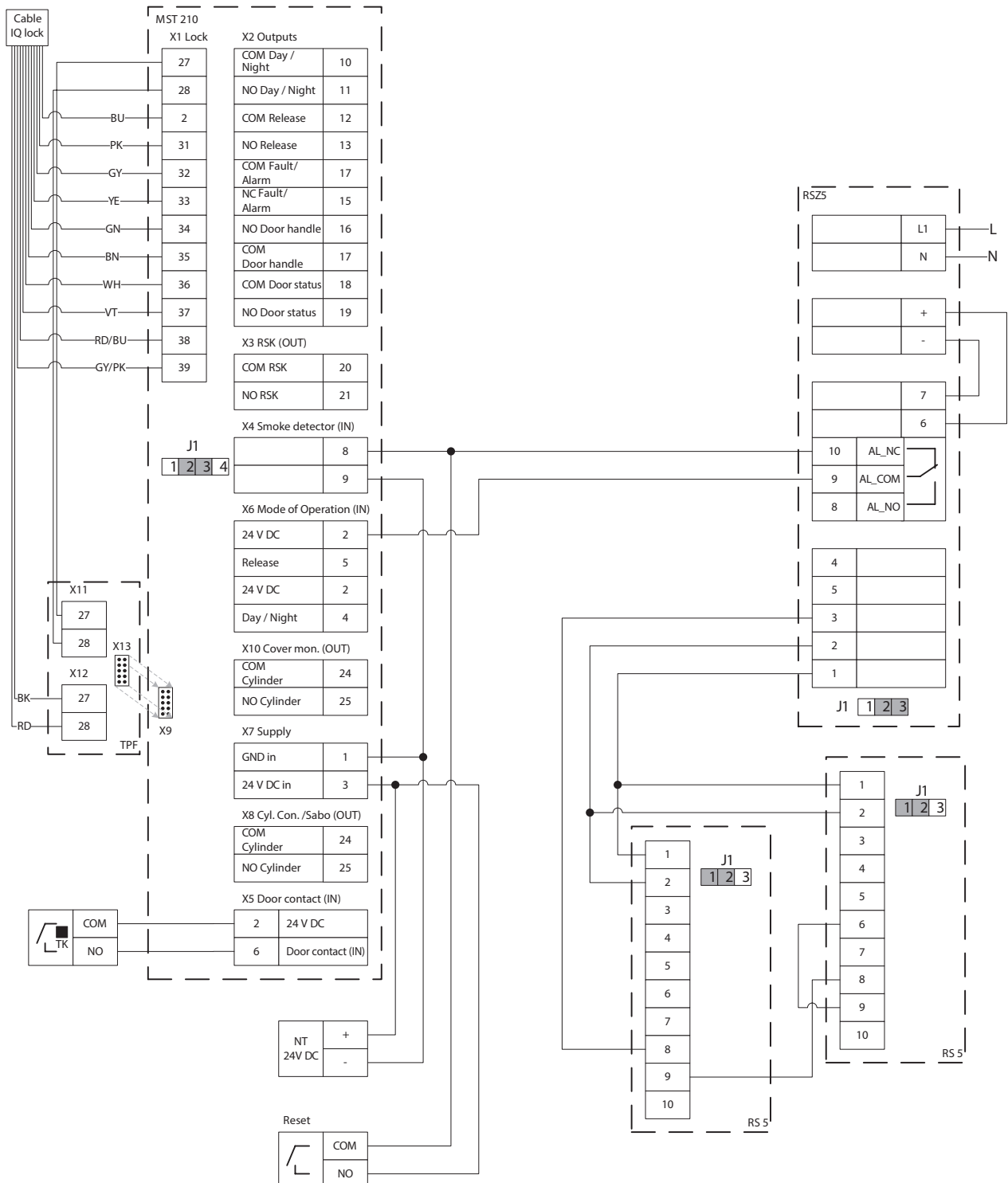
- ▶ Remove the red jumper from the smoke switch control unit (RSZ 6).
- ▶ Set the jumper J1 on the MST 210 to 2/3.
- ▶ Set the jumper on the smoke switch (RS 5) to 1/2.
- ▶ Press the reset button for commissioning.
- ▶ After release by the smoke switch control unit (RSZ 6) or the smoke switch (RS 5), press the reset button.



6.11 IQ lock EL with smoke switch control unit (RSZ 5)

- ! ▶ Follow the mechanical installation instructions for IQ lock.
- ▶ Heed the wiring diagram for the smoke switch control unit RSZ 5.

- ▶ Set the jumper on the smoke switch control unit (RSZ 5) to 2/3.
- ▶ Set the jumper J1 on the MST 210 to 2/3.
- ▶ Set the jumper on the smoke switch (RS 5) to 1/2.
- ▶ Press the reset button for commissioning.
- ▶ After release of the smoke switch control unit or the smoke switches, press the reset push button.

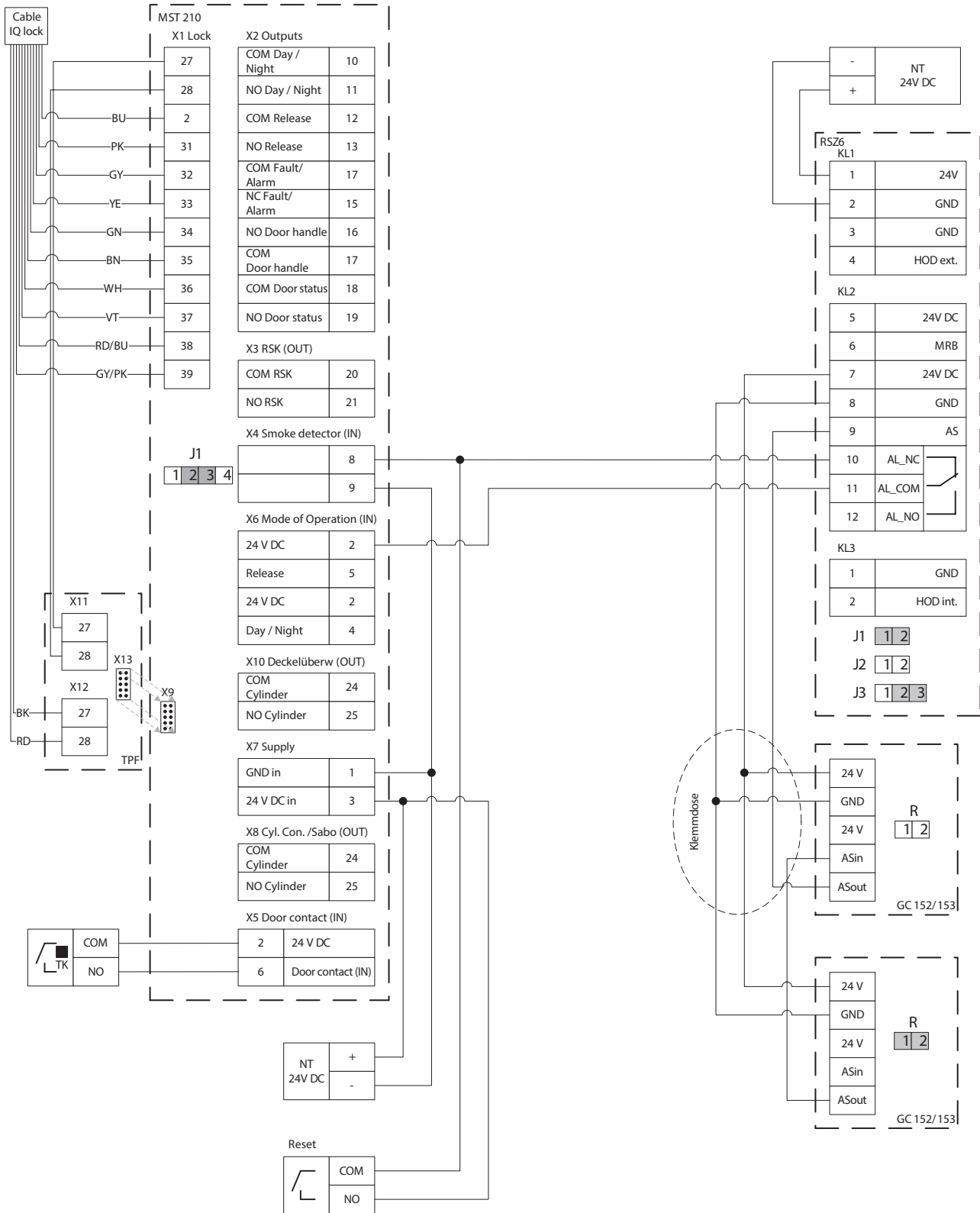


6.12 IQ lock EL with smoke switch control unit FA GC 150/160



- ▶ Follow the mechanical installation instructions for IQ lock.
 - ▶ Heed the wiring diagram for the hold-open system FA CG 150.
-

- ▶ Set jumper J3 on the smoke switch control unit (RSZ6) to 2/3.
- ▶ Separate the breaking point in the first relay base.
- ▶ Do **not** separate the breaking point in the last relay base.
- ▶ Set jumper J1 on the MST 210 to 2/3.
- ▶ Press the reset button for commissioning.
- ▶ After activating the smoke switch control unit or the smoke switches, press the reset push button.



6.13 IQ lock EL with TZ 320 SN and activation



- ▶ Follow the installation instructions for IQ lock.
- ▶ Heed the wiring diagram for GEZE SecuLogic RWS (TZ 320).

The following settings must be made on the TZ 320:

- ▶ Set Output 1 to "BA drive".
- ▶ Set Output 2 to "TOE working current"

Voltage supply of the MST 210 is from separate power supply NT 19.2-24 or from the TZ 320 control

Option 1

If the motor lock is to be in operating mode "day" when the door control unit is "permanently unlocked", output "1" of the TZ 320 must be connected to the "day/night" input of the MST 210. Output 1 must be configured to "BA drive" for this function.

Option 2

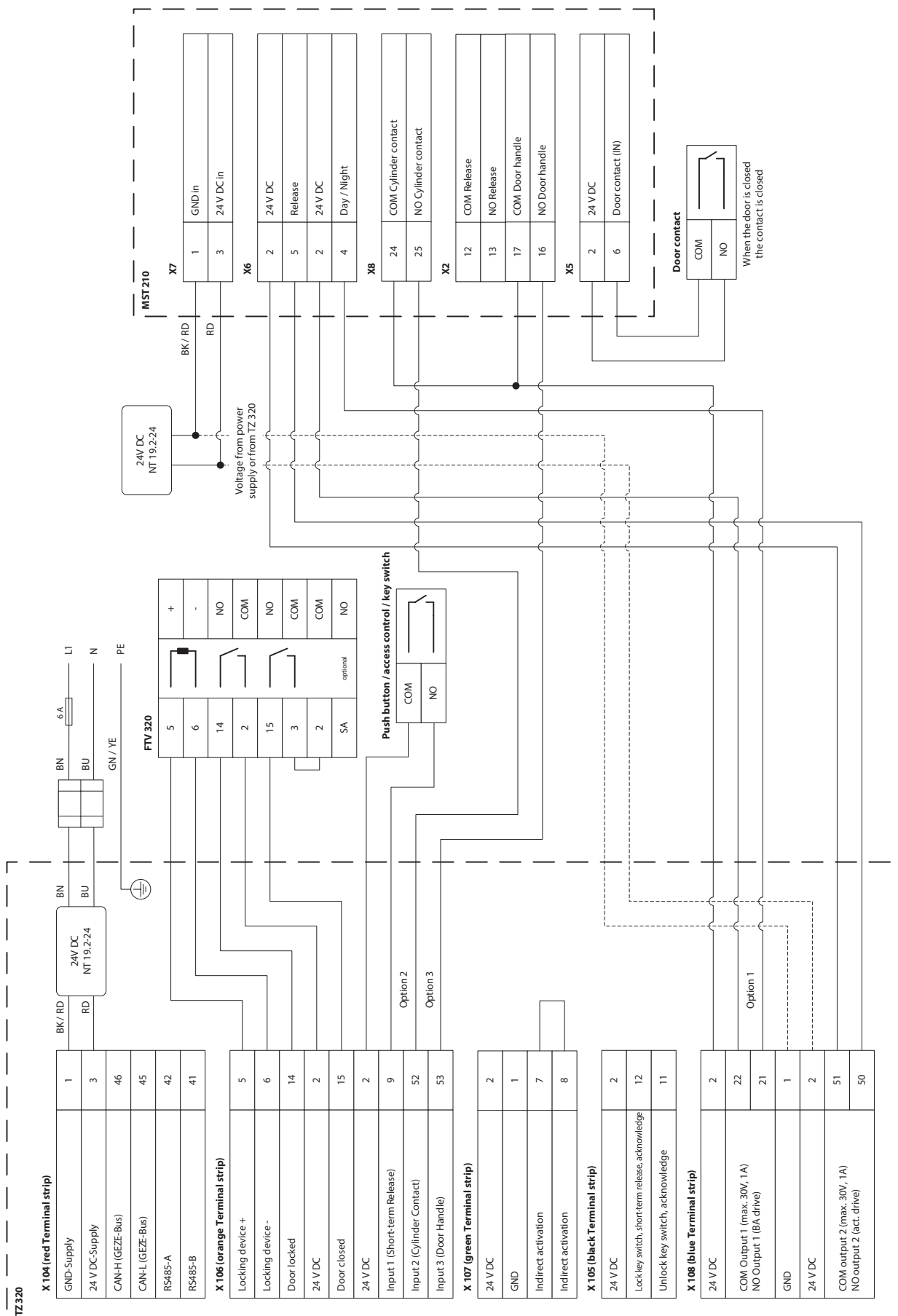
As an option, the output "cylinder contact" (terminals 24 + 25) of the MST 210 can be connected to a configurable input of the TZ 320 (terminals 2 and 52 or 53).

Function: When the cylinder is actuated by the key, a short-term release is triggered at the door control unit. If only a short-term release is desired, the input of the TZ 320 must be configured to "short-term release".

Option 3

As an option, the output "door handle" (terminals 16 + 17) of the MST 210 can be connected to a configurable input of the TST320 (terminals 2 and 52 or 53).

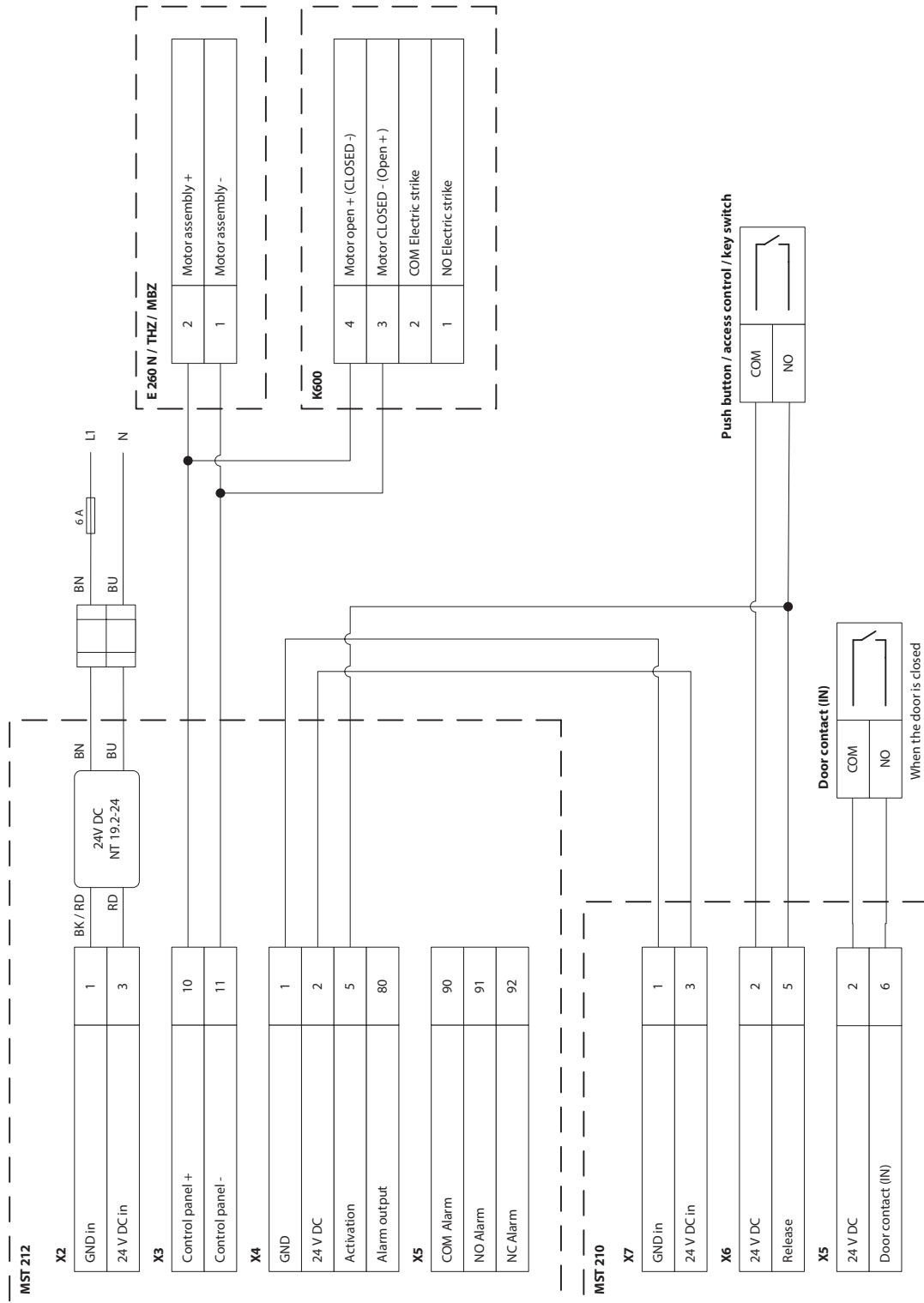
Function: If the door handle is pressed when the control unit is locked, a "pre-alarm" is triggered. For this, the input of the TZ 320 must be configured to "door handle".



6.14 IQ lock EL with K600 and activation



- ▶ Follow the installation instructions for IQ lock.
 - ▶ Heed the wiring diagram of the retractable arm drive RWA K600.
 - ▶ Heed the wiring diagrams of the control panels (E260 N / THZ / MBZ 300).
-

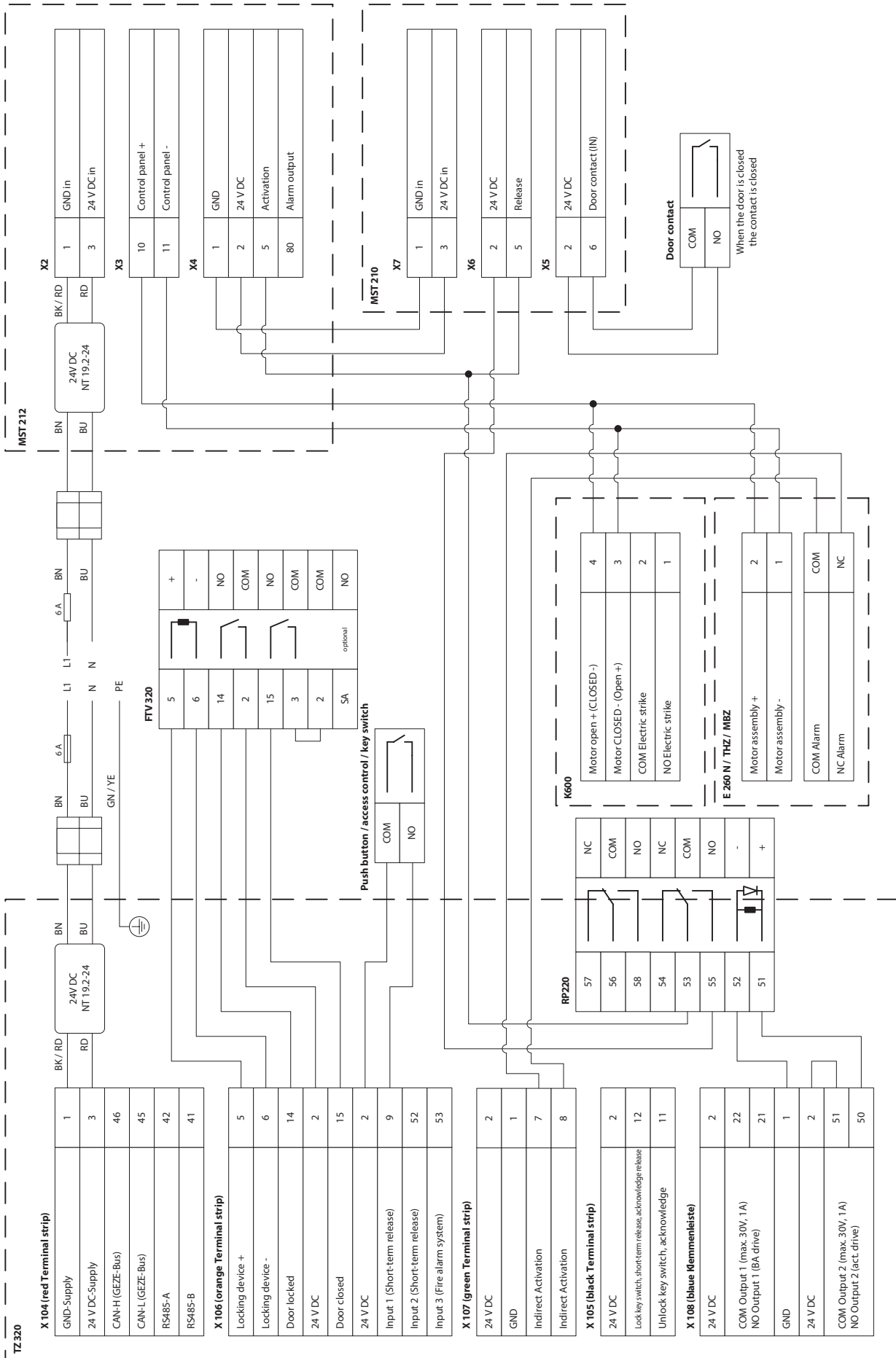


6.15 IQ lock EL with K600, TZ 320 SN and activation



- ▶ Follow the installation instructions for IQ lock.
 - ▶ Heed the wiring diagram of the retractable arm drive RWA K600.
 - ▶ Heed the wiring diagrams of the control panels (E260 N / THZ / MBZ 300).
 - ▶ Heed the wiring diagram for GEZE SecuLogic RWS (TZ 320).
-

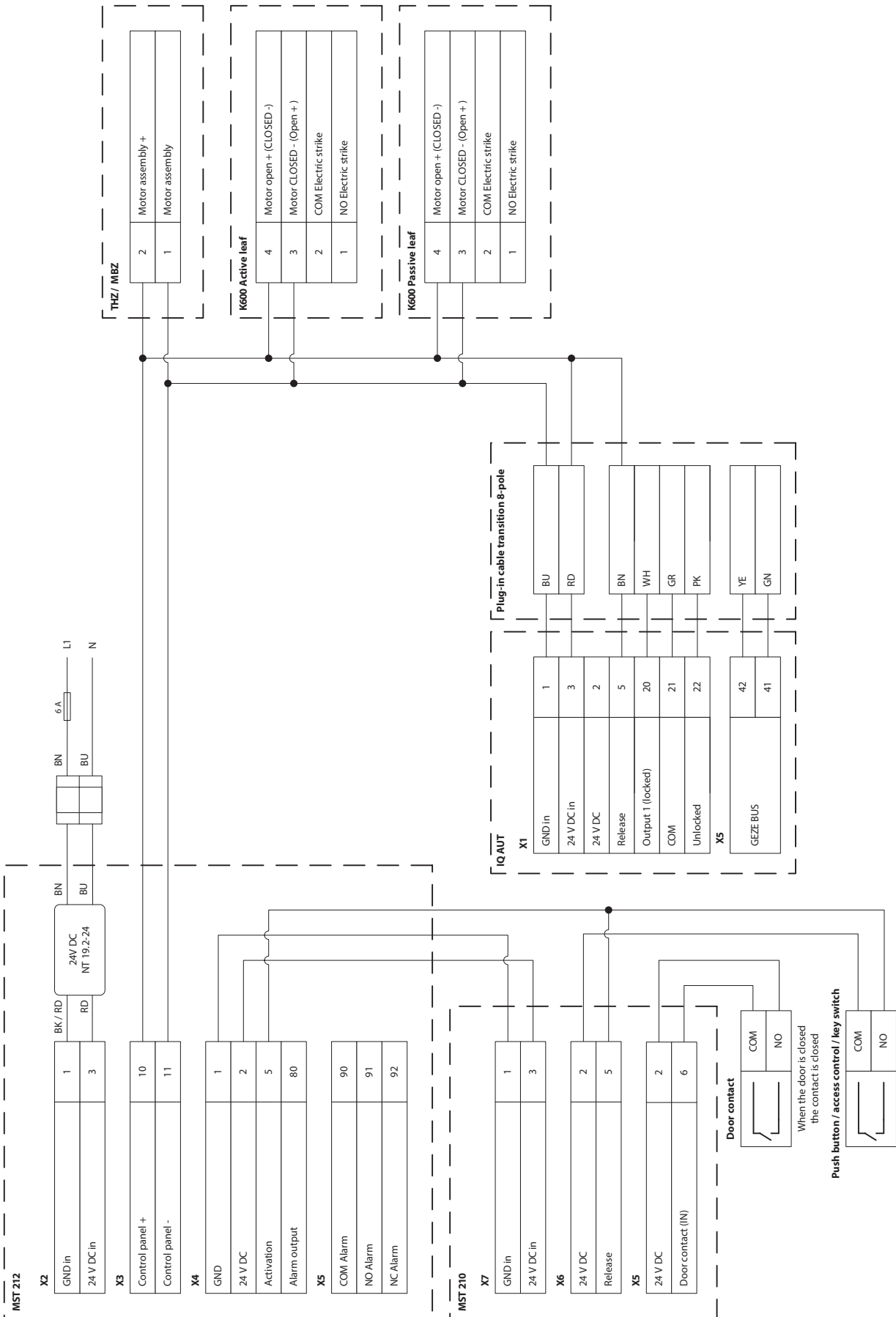
- ▶ On the TZ 320, set output 1 to "TOE working current".



6.16 IQ lock AUT with K600 and activation



- ▶ Follow the installation instructions for IQ lock.
 - ▶ Heed the wiring diagram of the retractable arm drive RWA K600.
 - ▶ Heed the wiring diagrams of the control panels (E260 N / THZ / MBZ 300).
-



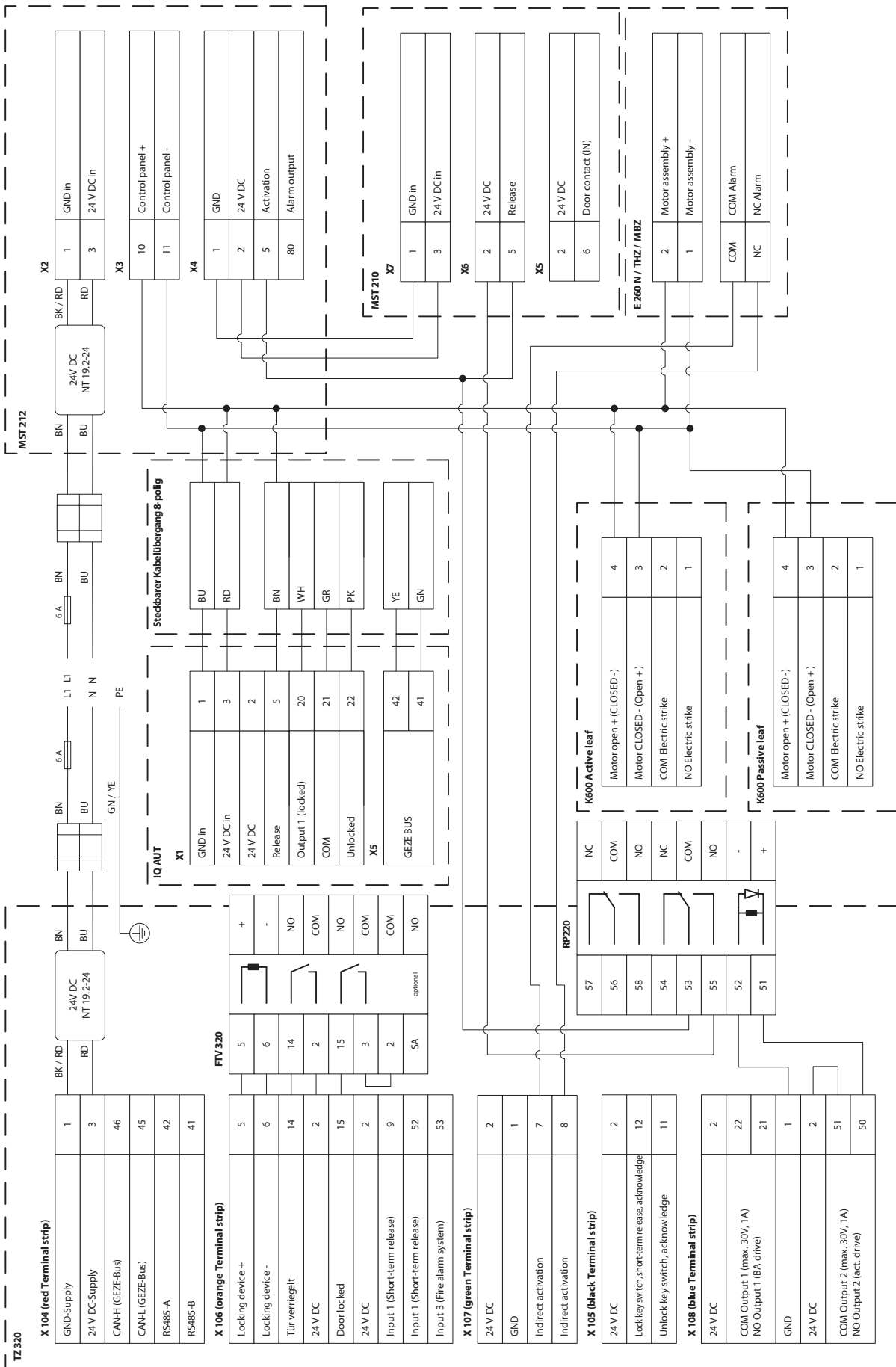
6.17 IQ lock AUT with K600, TZ 320 SN and activation



- ▶ Follow the mechanical installation instructions for IQ lock.
 - ▶ Heed the wiring diagram of the retractable arm drive RWA K600.
 - ▶ Heed the wiring diagrams of the control panels (E260 N / THZ / MBZ 300).
 - ▶ Heed the wiring diagram for GEZE SecuLogic RWS (TZ 320).
-

The following settings must be made on the TZ 320:

- ▶ Set Output 1 to "TOE working current".



6.18 IQ lock AUT with EMD (-F, -I) and activation



- ▶ Follow the mechanical installation instructions for IQ lock.
- ▶ Heed the wiring diagram for EMD, EMD-F, EMD Invers.

- ▶ For 2-leaf door drives connect the control to the active leaf.
- ▶ Set the parameters on the control DCU2, DCU2-F, DCU-I as follows:

With DPS:

- Set **A1** to **18** (day and night switchover),
parameter **rr** (bar message) to **02** (electric strike) and
to (electric strike) to **03** (motor lock).

With ST220:

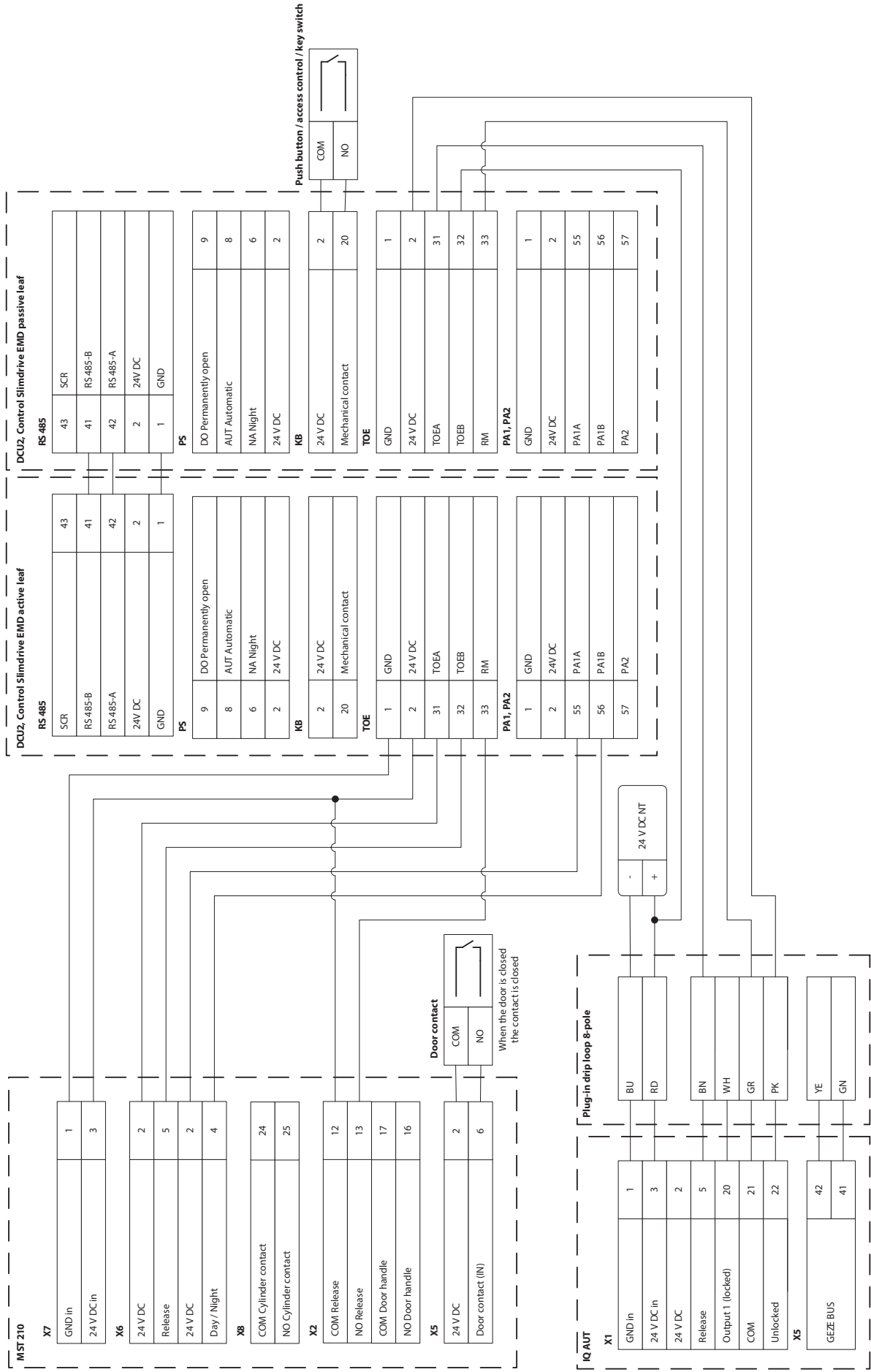
- Set Signals → Output signals → PA1 to day/night switchover.
- Set Signals → Input signals → Bolt contact type to electric strike.
- Set Door parameters → Electric strike type to motor lock.

Voltage supply of the MST 210 from separate power supply NT 19.2-24 or from the DCU2 control.

Voltage supply of the rod drive IQ AUT from separate 24 V DC 1.5 A power supply.

EMD Invers:

- If the door opening output of the EMD-Invers is configured to motor damage, the door is only held in the closing position via the IQ lock EL, no longer via the door drive.
- The door opens through spring force in the event of manual passage after the panic bar has been pressed.
- After the hold-open time has expired, the door closes electromechanically and the IQ locks EL lock.
- The EMD also recognises without an actuation signal when the door is opened.



6.19 IQ lock AUT with TSA160 NT (-F, -I) and activation



- ▶ Follow the mechanical installation instructions for IQ lock.
- ▶ Heed the wiring diagram for TSA160 NT, TSA160 NT-F, TSA160 NT Invers.

Disconnect the internal programme switch of the door drive.

For 2-leaf door drives connect the control to the active leaf.

Set the parameters on the control unit DCU5 as follows:

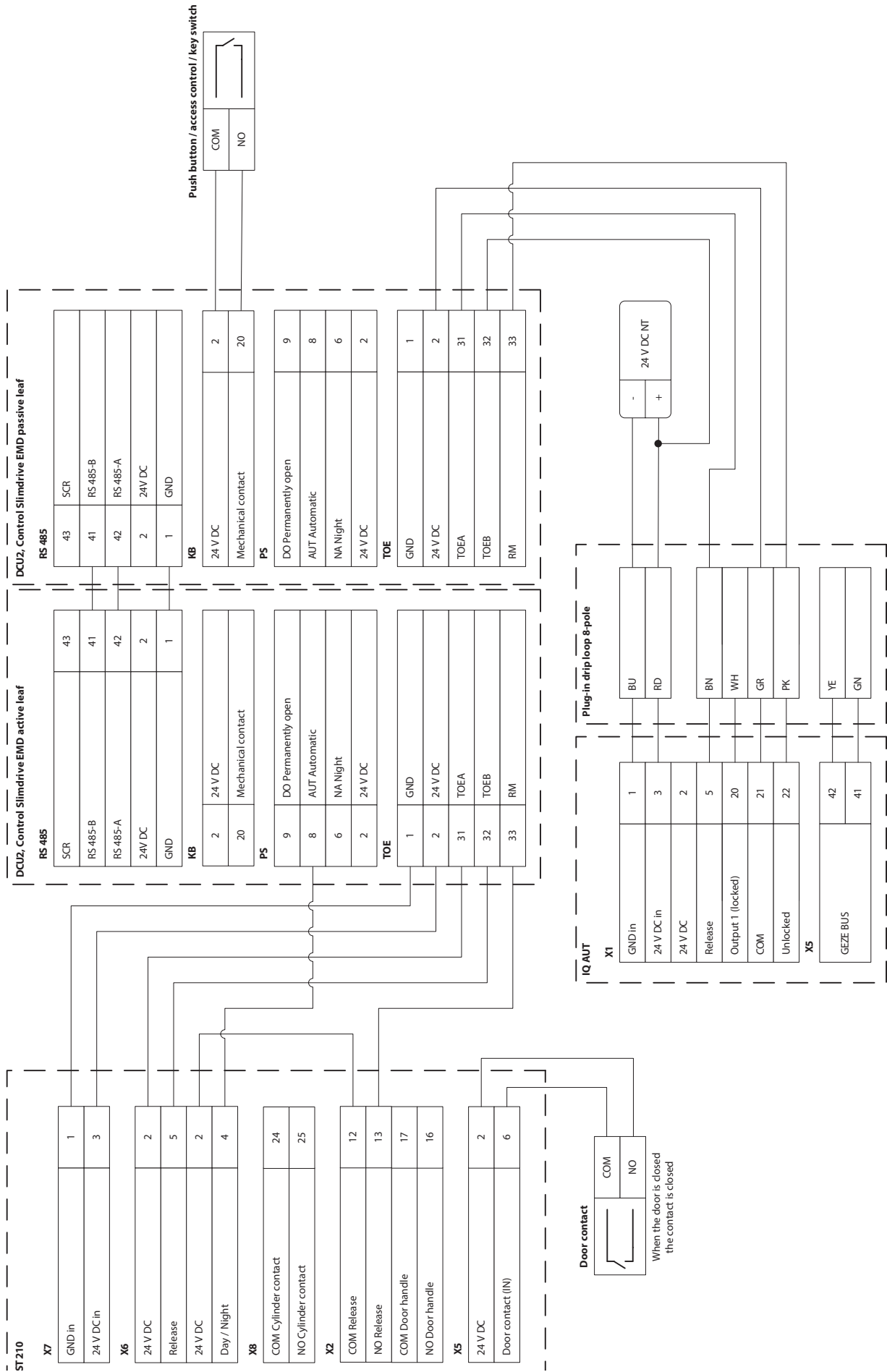
- ▶ With DPS:
 - Set parameter **rr (21)**(bar message) to **02** (electric strike) and **to (20)** (electric strike type) to **03** (motor lock).
- ▶ With ST220:
 - Set Input signals → Bar message to electric strike.
 - Set Door parameters → Electric strike type to motor lock.

Voltage supply of the MST 210 from separate power supply NT 19.2-24 or from the DCU5 control.

The GND of DCU5 (terminal TOE no. 1) must be connected with the GND of the MST 210 (terminal X7 no. 1), even when a separate power supply is used.

Voltage supply of the rod drive IQ AUT from separate 24 V DC 1.5 A power supply.

The day function on the lock cannot be used with analogue programme switches (DPS / TPS / MPS).



6.20 IQ lock AUT with Powerturn IS



- ▶ Follow the mechanical installation instructions for IQ lock AUT.
- ▶ Heed the Powerturn wiring diagram.

Parameters DCU8xx

- Set configurable output 1 to day/night changeover:
 - DPS: Set $\overline{R1}$ to $\overline{1B}$ ("Day/Night" mode of operation message).
 - ST220: Set "PA1 function" to "Day/Night changeover".
- Set bar message contact type to electric strike contact:
 - DPS: Set \overline{rr} to $\overline{U2}$ (electric strike).
 - ST220: Set the "Signals", "Input signals", "Bolt contact type", "Bolt contact type" to "NC".
- Set the electric strike type to motor lock:
 - DPS: Set \overline{to} to $\overline{U3}$.
 - ST220: Set "Door parameters" "Electric strike type" to "Motor lock".

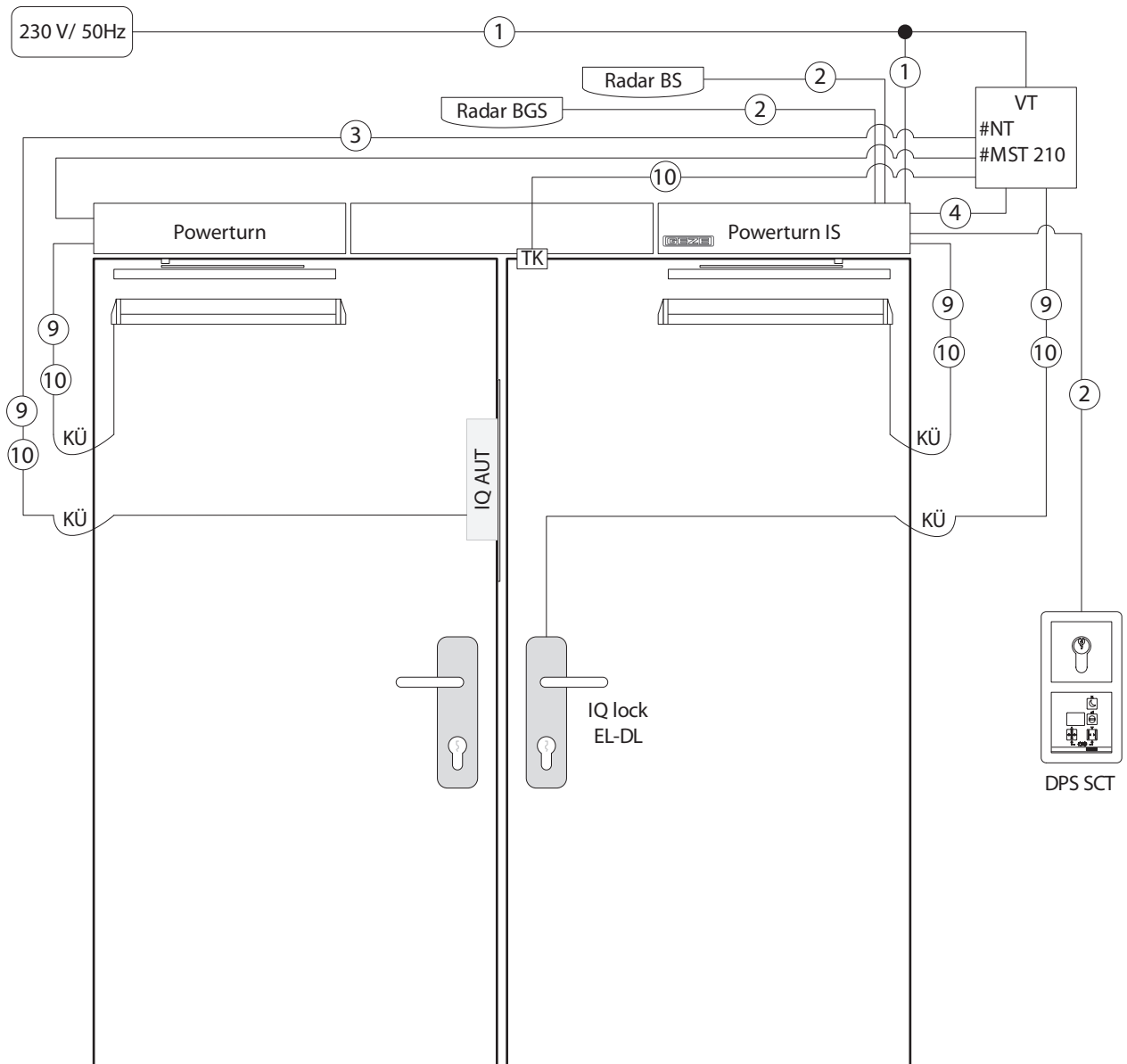
Voltage supply

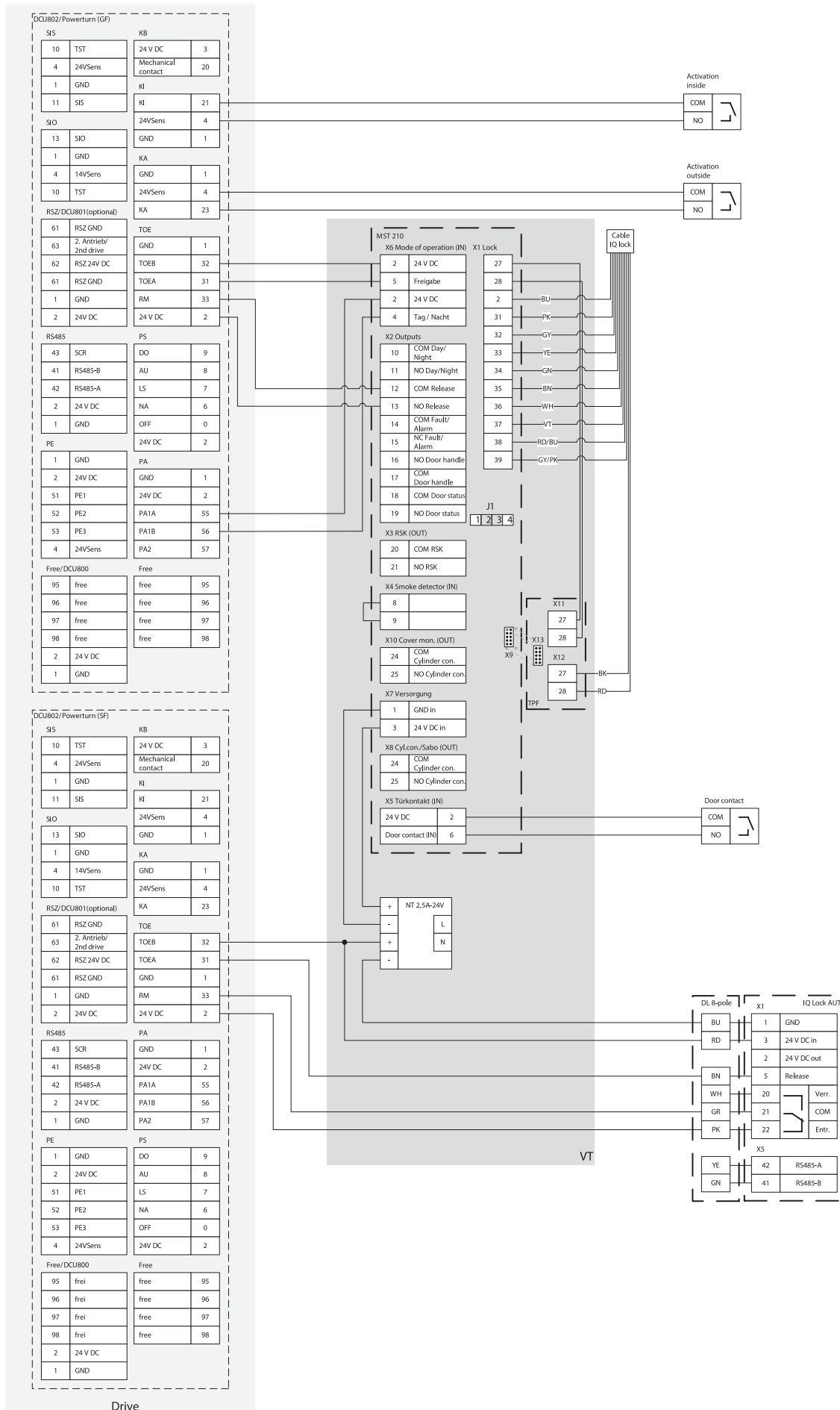
- Take the voltage supply MST 210 from a separate power supply or from the DCU8xx control.
- Take the voltage supply rod drive (IQ AUT) from a separate power supply.

Abbreviation in illustration on page	Component
BGS	Opposite hinge side
BS	Hinge side
DPS	Display programme switch
IQ AUT	Rod drive
IQ lock EL (DL)	Self-locking motor lock with panic function (2-leaf)
KÜ	Cable transition
MST 210	Motor lock control
NT	Power supply
Key switch xxx	Key switch
TK	Door contact

Cable recommendation

No.	Cable
1	NYM-J 3x 1.5
2	J-Y (ST)Y 2x2x0.6
3	J-Y (ST)Y 3x2x0.6
4	J-Y (ST)Y 4x2x0.6
9	Empty pipe inner diameter 10 mm
10	Supplied by GEZE:
	▫ IQ lock XX 10 m LiYY 12x0.14 mm ²
	▫ IQ AUT 10 m LiYY 8x0.34 mm ²
	▫ TK (ID:106133) 6 m LiYY 4x0.14 mm ²
	▫ K600 5 m FRNC-LSIHSI FE90
⊙	on-site





7 What if?



- ▶ You can remedy most of the problems and faults which occur in day-to-day operation yourself. The following overview should help you with this. If you cannot find the reason for a problem or remedy it, please contact GEZE.



- ▶ Never open the lock casing yourself.
 - Installation and maintenance work or repairs may only be carried out by the manufacturer and their authorised specialists.
 - Improper installation and maintenance work or repairs can lead to considerable risk for the user or the product for which the manufacturer neither accepts liability nor provides a warranty.

Rod drive IQ AUT

Alarm/fault	Cause	Consequence	Remedial action
OVR_TEMP	Temperature at the motor too high.	Poss. short-circuit at the motor.	▶ Return to GEZE Service.
Wh_L_ON	The Hall sensor at the locking layout of the toothed wheel cannot be activated. The fault is only triggered during retraction.	<ul style="list-style-type: none"> ▫ WH lock Hall sensor is defective. ▫ Toothed wheel is blocked. 	<ul style="list-style-type: none"> ▶ Acknowledge fault and test again. If the fault occurs again: ▶ Return to GEZE Service.
Wh_UL1_ON Wh_UL2_ON	The first Hall sensor at the unlocking position of the toothed wheel cannot be activated. The fault is only triggered during electric unlocking.	<ul style="list-style-type: none"> ▫ The drive rod at the edge of the door is blocked. ▫ Toothed wheel is blocked. ▫ The slider plate of the strike box is blocked. 	<ul style="list-style-type: none"> ▶ Unlock the passive leaf manually. Check whether excessive force must be used for unlocking. ▶ Make sure that the drive rod is not blocked.
Bar_L_ON	The Hall sensor at the locked position of the drive rod is active in the unlocked state. This fault is only triggered in the unlocked state.	<ul style="list-style-type: none"> ▫ Attempted manipulation. Some has tried to generate a locked signal. ▫ The bar lock Hall sensor is defective. 	<ul style="list-style-type: none"> ▶ Check whether the door has been manipulated. ▶ Leave the voltage switched off for 10 sec and then switch it back on again.
Bar_UL_ON	The Hall sensor at the unlocked position of the drive rod cannot be activated during unlocking. This fault is only triggered during electric unlocking.	<ul style="list-style-type: none"> ▫ Drive pin is defective ▫ Drive rod is blocked. ▫ Magnet of the drive rod has failed. 	<ul style="list-style-type: none"> ▶ Make sure that the drive rod is not blocked. ▶ Check the load on the drive rod manually. ▶ Acknowledge fault and test again.
Wh_L_OFF	The Hall sensor at the locked position of the toothed wheel remains active during unlocking. This fault is only triggered during electric unlocking.	Toothed wheel blocked.	<ul style="list-style-type: none"> ▶ Acknowledge fault and test again. If the fault occurs again: ▶ Return to GEZE Service.
Wh_UL1_OFF	The Hall sensor at the locked position of the toothed wheel remains active during retraction. This fault is only triggered during retraction.	Toothed wheel blocked.	<ul style="list-style-type: none"> ▶ Acknowledge fault and test again. If the fault occurs again: ▶ Return to GEZE Service.
Wh_UL2_OFF	The Hall sensor at the locked position of the toothed wheel remains active during retraction. This fault is only triggered during retraction.	Toothed wheel blocked.	<ul style="list-style-type: none"> ▶ Acknowledge fault and test again. If the fault occurs again: ▶ Return to GEZE Service.

Alarm/fault	Cause	Consequence	Remedial action
Bar_L_OFF	The Hall sensor at the locked position of the drive rod remains active during unlocking. This fault is only triggered in the unlocked state.	<ul style="list-style-type: none"> ▫ Drive rod is blocked. ▫ Bar lock sensor is defective. 	<ul style="list-style-type: none"> ▶ Make sure that the drive rod is not blocked. ▶ Check the load on the drive rod manually. ▶ Acknowledge fault and test again.
OC_2UL	“OverCurrent to unlock” The max. current limit has been exceeded during unlocking, although the drive rod has already reached the unlocked position.	Toothed wheel blocked.	<ul style="list-style-type: none"> ▶ Acknowledge fault and test again. If the fault occurs again: <ul style="list-style-type: none"> ▶ Return to GEZE Service.
OC_2UL_BAR	“OverCurrent to unlock” The max. current limit has been exceeded during unlocking.	<ul style="list-style-type: none"> ▫ Drive rod or toothed wheel is blocked. ▫ The load is too high. 	<ul style="list-style-type: none"> ▶ Make sure that the drive rod is not blocked. ▶ Check the load on the drive rod manually. ▶ Acknowledge fault and test again.
OC_2L	“OverCurrent to lock” The current limit has been exceeded during locking.	Toothed wheel blocked.	<ul style="list-style-type: none"> ▶ Acknowledge fault and test again. If the fault occurs again: <ul style="list-style-type: none"> ▶ Return to GEZE Service.

Motor lock IQ lock EL / IQ lock EL DL

Alarm/fault	Cause	Consequence	Remedial action
Manual unlocking of the lock using panic device possible, but not using motor actuation	Mechanical fault on the lock or crossbar jammed in extended state	Bolt can no longer be retracted by motor, and/or fault message is pending at the control	▶ Reset the activation and start activation of the lock again, fault message will go out if successful.
	Power supply cable defective	Lock is not being supplied with 24 V DC.	▶ Check continuity and replace the power supply cable of the lock if necessary.
	Control is not being supplied with 24 V DC.	In the event of attempted manipulation, the bolt of the auxiliary latch is closed and can no longer be retracted by motor	▶ Check the polarity of the 24 V DC input on the control and change if necessary.
The door can be pushed or pulled open by hand	The cross latch cannot be positioned or the lock cylinder is jammed	Bolt blocked in retracted state	<ul style="list-style-type: none"> ▶ Position the strike plate correctly. ▶ Check actuation of the nightlatch function using the key.
	Door handle is jammed in actuated position or handle return spring is broken	The door handle does not return to its initial position after actuation The signal is sent via fault relay after 4 min	<ul style="list-style-type: none"> ▶ Loosen the screws, lubricate the handle guide, correct fastening. The fault message is reset once the handle is mobilised again. – or – ▶ Replace the lock.
	Auxiliary latch is not actuated	Bolt is not extended with door closed	▶ Check the clearance of the door leaf and shim the strike plate if necessary.
	Lock in permanently unlocked mode	Lock does not lock when the door is closed	▶ Check permanently unlocked activation.
	Power supply cable has been interrupted during the release time	Lock does not lock when the door is closed	▶ Check power supply cable for continuity.
The auxiliary latch closes with door closed with “Off”	Strike plate has been reworked and hollowed out too much	–	▶ Open the door and replace the strike plate.

Alarm/fault	Cause	Consequence	Remedial action
No signal from the Reed contact	Sensing distance of the Reed contact exceeded or power supply cable for the Reed contact defective – or – Input external door contact on the control defective	Electrical timeout function still working. Door locks during door closing process or remains locked when door is closed. Door mode "door closed" is not signalled.	<ul style="list-style-type: none"> ▶ Check Reed contact, sensing distance observed? ▶ Check continuity, check input of external door contact on the control.
Lock no longer locks	Power supply cable defective	Bolt no longer extends	▶ Replace power supply cable.
Door leaf cannot close	Cross latches hit the strike plate hard	Door leaf cannot close, latches grind at the strike plate	▶ Lubricate the cross latches lightly with a lubricant approved by GEZE.
	Auxiliary latch can no longer be actuated		▶ Mobilise the auxiliary catch carefully.

Lever lock IQ lock EM / IQ lock EM DL

Alarm/fault	Cause	Consequence	Remedial action
Manual unlocking via the outer door handle not possible	Magnet is not energised	Outside handle is not engaged and is disabled	<ul style="list-style-type: none"> ▶ Check the polarity of the 24 V DC input and replace if necessary. – and/or – ▶ Check the continuity of the power supply cable. If the power supply cable and polarity are both OK: ▶ Replace the lock.
The door can be pushed or pulled open by hand	Cross latch cannot be positioned – or – Lock cylinder is jammed	Bolt blocked in retracted state	<ul style="list-style-type: none"> ▶ Position the strike plate correctly. – or – ▶ Check actuation of the nightlatch function using the key.
	Door handle is jammed in actuated position – or – Handle return spring is broken	The door handle does not return to its initial position after actuation and there is no locking signal given	<ul style="list-style-type: none"> ▶ Loosen the screws, lubricate the handle guide, correct fastening. – or – ▶ Replace the lock.
	Auxiliary latch is not actuated	Lock does not lock when the door is closed	▶ Check the clearance of the door leaf.
Bolt shoots out again immediately after the door has been opened	Door handle has not been pressed down completely. – or – Auxiliary latch is jammed	Slider is not held in permanently unlocked position, door cannot close and be locked properly	<ul style="list-style-type: none"> ▶ Press the door handle as far as it will go. ▶ Check the tension-free fit of the lock. Rework the lock recess if necessary. If there is no change in lock behaviour: ▶ Replace the lock.
The auxiliary latch closes with door closed with "Off"	Strike plate has been reworked and hollowed out too much	–	▶ Open the door and replace the strike plate.
Door leaf cannot close	Cross latches hit the strike plate hard	Door leaf cannot close, latches grind at the strike plate	▶ Lubricate the cross latches lightly with a lubricant approved by GEZE.
	Auxiliary latch can no longer be actuated	–	▶ Mobilise the auxiliary catch carefully.
Contacts are not signalling	Fittings set installed twisted – or – Lockcase fitted in the recess under mechanical tension	Contacts in the lock are not actuated by the integrated slider	<ul style="list-style-type: none"> ▶ Remove the fittings set. ▶ Check the tension-free fit of the lock. ▶ Rework the lock recess if necessary, mobilise the lock or replace the lock.
	Power supply cable is defective	Relaying of contacts not possible	▶ Check power supply cable through or replace lock.

Mechanical contact lock IQ lock C / IQ lock C DL and mechanical lock IQ lock M / IQ lock M DL

Alarm/fault	Cause	Consequence	Remedial action
The door can be pushed or pulled open by hand	Cross latch cannot be positioned	Bolt blocked in retracted state	▶ Position the strike plate correctly.
	Lock cylinder is jammed	Bolt blocked in retracted state	▶ Check actuation of the nightlatch function using the key.
	Door handle is jammed in actuated position – or – Handle return spring is broken	The door handle does not return to its original position after actuation	▶ Loosen the screws. ▶ Lubricate the handle guide. ▶ Correct fastening – or – ▶ Replace the lock.
	Auxiliary latch is not actuated	Lock does not lock when the door is closed	▶ Check the clearance of the door leaf.
Bolt shoots out again immediately after the door has been opened	Door handle has not been pressed down completely – or – Auxiliary latch is jammed in actuated position	Slider is not held in permanently unlocked position, door cannot close and be locked properly	▶ Press the handle down as far as it will go ▶ Check the tension-free fit of the lock. ▶ Rework the lock recess if necessary. If there is no change in lock behaviour: ▶ Replace the lock.
The auxiliary latch closes with door closed with "Off"	Strike plate has been reworked and hollowed out too much	–	▶ Open the door and replace the strike plate.
Door leaf cannot close	Cross latches hit the strike plate hard – or – Auxiliary latch can no longer be actuated	Door leaf cannot close, latches grind at the strike plate	▶ Lubricate the cross latches lightly with a lubricant approved by GEZE. ▶ Mobilise the auxiliary catch carefully.

8 Maintenance and CE marking



Lock maintenance work must be carried out once a year by GEZE or an authorised GEZE partner.


Maintenance instructions


These maintenance instructions are part of the installation and operating instructions and have to be made available to the owner/operator of the building.

In addition, we recommend monthly checks on the locks by the owner/operator as follows:

- Make sure by inspecting and actuating the emergency exit device that all parts of the lock are in a satisfactory operating conditions.
- Use a dynamometer to measure and record the operating forces required to release the panic exit device/emergency exit lock.
- Ensure that the operating forces have not changed substantially in comparison to the operating forces recorded during initial commissioning.
- Ensure that bolt heads or keepers are not blocked or clogged up.
- Ensure that the panic exit device has been lubricated according to the manufacturer's instructions and that the operating element has been tightened properly.
- Ensure that no additional locking devices are added to the door after initial installation.
- Check whether all the components of the panic exit device still comply with the list of approved components originally supplied with the system.
- Ensure that these documents are made available to the owner/operator of the panic exit device/escape door lock.

CE marking

									
13 GEZE GmbH PO Box 1363 D-71229 Leonberg									
Panic exit device 001 LE/DO no.: 0757-CPR-229PANIK-7013137-4-6 EN 1125: 2008 Panic exit device with horizontal bar for doors on escape routes IQ lock M / IQ lock M DL IQ lock C / IQ lock C DL IQ lock EM / IQ lock EM DL IQ lock EL / IQ lock EL DL IQ lock AUT									
Release ability					passed ≤ 80 N without load ≤ 200 N with load				
Permanent functionality with regard to release ability in terms of ageing and loss of quality (of doors on escape routes)					Passed 200,000 cycles / ≤ 80 N				
Usage category	Permanent function	Weight of door	Fire / smoke protection	Safety	Corrosion behaviour	Protection against burglary	Projection of the sliding fitting system	Type of actuation	Application area
3	7	7	B	1	3	2	1/2	A	A/B
3	7	7	B	1	3	2	2	B	A/B
Certificate to state the constancy of performance certificate no. 0757-CPR-229PANIK-7013137-4-6 issued by ift Rosenheim NB-no. 0757									

									
13 GEZE GmbH PO Box 1363 D-71229 Leonberg									
Emergency exit device 001 LE/DO no.: 0757-CPR-229PANIK-7013137-5-4 EN 179: 2008 Emergency exit lock actuated by handle or push pad for doors on escape routes IQ lock / IQ lock DL									
Release ability					passed ≤ 80 N without load ≤ 200 N with load				
Permanent functionality with regard to release ability in terms of ageing and loss of quality (of doors on escape routes)					Passed 200,000 cycles.				
Usage category	Permanent function	Weight of door	Fire / smoke protection	Safety	Corrosion behaviour	Protection against burglary	Projection of the sliding fitting system	Type of actuation	Application area
3	7	7	B	1	3	4	2	A	A/B
Certificate to state the constancy of performance no. 0757-CPR-229PANIK-7013137-5-4 issued by ift Rosenheim NB-no. 0757									

9 Annex

9.1 Certificate in accordance with EN 14846

Classification of IQ lock EM / IQ lock EM DL in compliance with EN 14846 : 2008

Usage category	Permanent function and latch load	Door weight and closing force	Suitability for use on fire control/smoke protection doors	Safety	Corrosion resistance, temperature and humidity	Protective effect and drilling resistance	Protective effect with regard to electrical function	Protective effect with regard to electrical manipulation
3	X	8	F	0	M	5	0	3

9.2 Certificate to state the constancy of performance in accordance with EN 1125

Zertifikat zur Bescheinigung der Leistungsbeständigkeit

Zertifikatsnummer: 0757-CPR-229PANIK-7013137-4-6



Gemäß der Verordnung (EU) Nr. 305/2011 des Europäischen Parlaments und des Rates vom 9. März 2011 (Bauproduktenverordnung oder BPV) gilt dieses Zertifikat für das Bauprodukt

Grundlagend: EN 1125: 2008

Panikverschlüsse

Panikverschlüsse mit horizontaler Betätigungsstange für 1- und 2-flügelige Türen

gemäß der Zusammenstellung in Anlage 1

gemäß der Zusammenstellung in Anlage 1

zur Verwendung an Türen in Flucht- und Rettungswegen mit Anforderungen an den Rauch- und Brandschutz

GEZE GmbH
Rainold-Vöster-Str. 21-29, D-71229 Leonberg

6039631 + 7013137

0757

Dieses Zertifikat bestätigt, dass alle Bestimmungen für die Bewertung und den Nachweis der Leistungsbeständigkeit, beschrieben in Anhang ZA der Norm(en)

EN 1125 : 2008

gemäß System 1 für die in diesem Zertifikat angegebene Leistung angewandt werden und dass die vom Hersteller durchgeführte werkseigene Produktionskontrolle bewertet wird, um die Leistungsbeständigkeit des Bauproduktes sicherzustellen.

Dieses Zertifikat wurde erstmalig am 09. September 2009 ausgestellt und ist gültig bis zum 11. Oktober 2019, solange es keine wesentlichen Änderungen der harmonisierten Norm, des Bauproduktes, der AVCP-Verfahren und/oder der Herstellungsbedingungen am Produktionsstandort gibt, falls es nicht durch die notifizierte Produktzertifizierungsstelle aufgehoben oder zurückgezogen wurde.

Die Verwendung dieses Zertifikats und die Kennzeichnung der Produkte ist an den bestehenden Zertifizierungs- und Überwachungsvertrag mit dem ift Rosenheim Nr. 229PANIK 7013137 gebunden.




www.ec.europa.eu

www.ift-rosenheim.de

ift Rosenheim GmbH
Theodor-Saub-Str. 7-9
D-83026 Rosenheim

Kontakt
Tel: +49 8031 261-0
Fax: +49 8031 261-260
www.ift-rosenheim.de

Prüfung und Kalibrierung – EN ISO/IEC 17025
Inspektion – EN ISO/IEC 17020
Zertifizierung Produkte – EN ISO/IEC 17065
Zertifizierung Managementsysteme – EN ISO/IEC 17021

Notified Body #17
DAKKS
DIN EN ISO 9001



Prof. Ulrich Siebert
Inhaber/Chairman
ift Rosenheim
21. Februar 2018



ppa. Christian Kahner
Leiter der notifizierten
Produktzertifizierungsstelle

Zertifikat zur Bescheinigung der Leistungsbeständigkeit

Anlage 1 Seite 1 von 5
Hersteller: GEZE GmbH
Ausgabedatum: 21. Februar 2018



Zertifikatsnummer: 0757-CPR-229PANIK-7013137-4-6

Panikverschlüsse nach EN 1125 : 2008 für 1- und 2-flügelige Türen: Druck- und Griffstangen-Betätigung

Für die Betätigungsart A (Griffstangen-Betätigung)

Klassifizierung:	3	7	7	B	1	3	2	1/2	A	A/B
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Für die Betätigungsart B (Druckstangen-Betätigung)

Klassifizierung:	3	7	7	B	1	3	2	2	B	A/B
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Verwendungszweck: zur Verwendung an Türen in Flucht- und Rettungswegen mit Anforderungen an den Rauch- und Brandschutz

Referenz-Prüfbericht: Nr. 207 41089 R1 vom 07. Januar 2010
Referenz-Prüfbericht: Nr. 207 36800 vom 12. Februar 2009
Referenz-Prüfbericht: Nr. 120001894.11 vom 15. Dezember 2006 (MPA)
Referenz-Prüfbericht: Nr. 120001894.10 vom 15. Dezember 2006 (MPA)
Referenz-Prüfbericht: Nr. 10-001639-PR01 vom 03. April 2013
Referenz-Prüfbericht: Nr. 10-001692-PR01 vom 29. Juli 2013
Referenz-Prüfbericht: Nr. 13-000960-PR01 vom 24. April 2013
Referenz-Prüfbericht: Nr. 271 35385 R2 vom 13. August 2009
Referenz-Prüfbericht: Nr. 271 38194 vom 27. Mai 2009
Referenz-Prüfbericht: Nr. 207 37980 vom 17. August 2010
Referenz-Prüfbericht: Nr. 13-000685-PR04 vom 05. Juli 2013
Referenz-Prüfbericht: Nr. 13-000685-PR03 vom 05. Juli 2013
Referenz-Prüfbericht: Nr. 14-003403-PR01 vom 04. November 2016
Referenz-Prüfbericht: Nr. 14-003403-PR02 vom 04. November 2016
Referenz-Prüfbericht: Nr. 16-000815-PR01 vom 28. Juli 2016
Referenz-Prüfbericht: Nr. 16-000815-PR02 vom 28. Juli 2016
Referenz-Prüfbericht: Nr. 17-000792-PR01 vom 21. Juli 2017

ift Rosenheim GmbH
Theodor-Saub-Str. 7-9
D-83026 Rosenheim

Kontakt
Tel: +49 8031 261-0
Fax: +49 8031 261-260
www.ift-rosenheim.de

Prüfung und Kalibrierung – EN ISO/IEC 17025
Inspektion – EN ISO/IEC 17020
Zertifizierung Produkte – EN ISO/IEC 17065
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DIN EN ISO 9001



Prof. Ulrich Siebert
Inhaber/Chairman
ift Rosenheim
21. Februar 2018



ppa. Christian Kahner
Leiter der notifizierten
Produktzertifizierungsstelle

Zertifikat zur Bescheinigung der Leistungsbeständigkeit

Anlage 1 Seite 2 von 5
Hersteller: GEZE GmbH
Ausgabedatum: 21. Februar 2018



Zertifikatsnummer: 0757-CPR-229PANIK-7013137-4-6

Verschlüsse:

Funktion	Bezeichnung	Verschlussstyp	Dornmaße	Entfernung	Stulp	Schließblech	Lochung
I	IQ lock M IQ lock M DL	A	35 mm bis 100 mm	72 mm bis 94 mm	20 mm bis 30 mm	Flach- schließ- blech Winkel- schließ- blech Lappen- schließ- blech	Rund- zylinder und Profil- zylinder
I'	IQ lock C IQ lock C DL	A					
II	IQ lock EM IQ lock EM DL	A					
IM	IQ lock EL IQ lock EL DL	A					
IM'	IQ lock AUT	A					

In Kombination mit:

Verschluss:

Nr.	Bezeichnung	Verschlussstyp	Dornmaße	Stulp	Zubehör
1.	Gegenkasten (Gegen- bascule) DL	A	35 mm bis 100 mm	20 mm bis 30 mm	133916
					133917
					133918
					133919
					133920
					133921
					133922
					134255
					153706
					153707
					153708
					153709
					153710
					153741
					153742
153705					
153746					
162310					
162311					

ift Rosenheim GmbH
Theodor-Saub-Str. 7-9
D-83026 Rosenheim

Kontakt
Tel: +49 8031 261-0
Fax: +49 8031 261-260
www.ift-rosenheim.de

Prüfung und Kalibrierung – EN ISO/IEC 17025
Inspektion – EN ISO/IEC 17020
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Prof. Ulrich Siebert
Inhaber/Chairman
ift Rosenheim
21. Februar 2018



ppa. Christian Kahner
Leiter der notifizierten
Produktzertifizierungsstelle

Zertifikat zur Bescheinigung der Leistungsbeständigkeit

Anlage 1 Seite 3 von 5
Hersteller: GEZE GmbH
Ausgabedatum: 21. Februar 2018



Zertifikatsnummer: 0757-CPR-229PANIK-7013137-4-6

Innenbeschlag:

Nr.	Hersteller	Typ	Kodierung
1.	GEZE GmbH ***	Panikgriffstange	-/-
2.	ASSA ABLOY (Schweiz) AG***	MSL Art. 5971	-/-
3.	ASSA ABLOY (Schweiz) AG*	e-bar 5980-5983	-/-
4.	HEWI Heinrich Wilke GmbH***	PS160XA10 und PS160XA20	DO 20.13
5.	ECO Schulte GmbH & Co. KG*	EPN 2000	DO 2.17
6.	ECO Schulte GmbH & Co. KG**	EPN 900 III	DO 3.03
7.	GFS-Gesellschaft für Sicherheitstechnik mbH*	70070-71 und 70073-74	-/-
8.	FSB Franz Schneider Brakel GmbH & Co. KG**	77 7980	-/-
9.	WSS Wilh. Schlechtendahl & Söhne GmbH & Co. KG*	01 692 XXX und 01 693 XXX	-/-
10.	ECO Schulte GmbH & Co. KG***	EPN 950	DO 20.01
11.	ECO Schulte GmbH & Co. KG**	EPN 900 IV	DO 20.01
12.	Glutz AG*	56711.00.00.30 CR NI	-/-
13.	Glutz AG***	56721.PZ.92.30 CR NI	-/-
14.	Schüco**	240182	-/-
15.	Schüco**	240195	-/-

*Druckstangenbetätigung
**Griffstangenbetätigung Überstand Klasse 1
***Griffstangenbetätigung Überstand Klasse 2

ift Rosenheim GmbH
Theodor-Saub-Str. 7-9
D-83026 Rosenheim

Kontakt
Tel: +49 8031 261-0
Fax: +49 8031 261-260
www.ift-rosenheim.de

Prüfung und Kalibrierung – EN ISO/IEC 17025
Inspektion – EN ISO/IEC 17020
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Prof. Ulrich Siebert
Inhaber/Chairman
ift Rosenheim
21. Februar 2018



ppa. Christian Kahner
Leiter der notifizierten
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Zertifikat zur Bescheinigung der Leistungsbeständigkeit
 Anlage 1 Seite 4 von 5
 Hersteller: GEZE GmbH
 Ausgabedatum: 21. Februar 2018

Zertifikatsnummer: 0757-CPR-229PANIK-7013137-4-6



Außenbeschlag

Nr.	Hersteller	Typ	Kodierung
1.	FSB Franz Schneider Brakel GmbH & Co. KG	-/-	DO 20.3.01 DO 20.3.02 DO 20.3
2.	HOPPE Holding AG	-/-	DO 20.5.01 DO 20.5.02 DO 20.7.01 DO 20.7.02 DO 20.20.01 DO 20.20.02
3.	HEWI Heinrich Wilke GmbH	162XAH11.530, 162XAH52.640, 111XAR11.110, 111R11.210, 111R11.230, 111R11.240	DO 20.13
4.	Grundmann Beschläge GmbH	1554FHA, 1754FHA, 2254FHA, 2454FHA, 2554NFHA	-/-
5.	ECO Schulte GmbH & Co. KG	D-116.AL, D-116.ER, D-335.ER	DO 20.01.01
6.	KABA AG	etologic c-lever	-/-
7.	ASSA ABLOY (Schweiz) AG	-/-	5974 5978 5979
8.	Süd-Metall Beschläge GmbH	Paula-R FS	-/-
9.	Hemat Metallwaren GmbH	1801.FS 1801.R.FS 1808.FS	ift Rosenheim
10.	VIELER International KG	-/-	DO 20.12.01 DO 20.12.02

Zertifikat zur Bescheinigung der Leistungsbeständigkeit
 Anlage 1 Seite 5 von 5
 Hersteller: GEZE GmbH
 Ausgabedatum: 21. Februar 2018

Zertifikatsnummer: 0757-CPR-229PANIK-7013137-4-6



Erläuterungen:

- Beschreibung:** Selbsttätig, beim Schließen, verriegelnde Einsteckschlösser mit Fluchtfunktion (Pankfunktion) und geteilter Kreuzfalle. Der Riegel ist mittig zwischen den beiden Falenteilen angeordnet.
- Funktion I:** Einteilige Schlossnuss, ständig wirkende Fluchtfunktion von innen. Von innen ist das Öffnen über den Innenbeschlag immer möglich. Von außen kann mit dem Schlüssel über den Wechsel geöffnet werden.
 *mit zusätzlichem im Schloss integrierten Rückmeldekontakten
- Funktion II:** Geteilte Schlossnuss, ständig wirkende Fluchtfunktion von innen. Von innen ist das Öffnen über den Innenbeschlag immer möglich. Der Außenbeschlag, bzw. die Außenschulter wird elektronisch geregelt ein- oder ausgekuppelt. Es wird ein Spezial-Beschlag mit geteiltem Stift benötigt.
- Funktion IM:** Einteilige Schlossnuss, ständig wirkende Fluchtfunktion von innen. Von innen ist das Öffnen über den Innenbeschlag immer möglich. Von außen kann mit dem Schlüssel über den Wechsel geöffnet werden. Motorischer Riegelantrieb.
 *motorische Entriegelung von Gang- und Standflügel
- Schließzylinder:** Alle Bauarten von Schließzylindern mit Freilauffunktion haben keinen Einfluss auf eine einwandfreie Funktion.

ift Rosenheim GmbH
 Theodor-Sträß 7-9
 D-85038 Rosenheim
 Kontakt:
 Tel. +49 89 31 261-0
 Fax. +49 89 31 261-290
 www.ift-rosenheim.de
 Prüfung und Kalibrierung – EN ISO/IEC 17025
 Inspektion – EN ISO/IEC 17020
 Zertifizierung Produkte – EN ISO/IEC 17065
 Zertifizierung Managementsysteme – EN ISO/IEC 17021



ift Rosenheim GmbH
 Theodor-Sträß 7-9
 D-85038 Rosenheim
 Kontakt:
 Tel. +49 89 31 261-0
 Fax. +49 89 31 261-290
 www.ift-rosenheim.de
 Prüfung und Kalibrierung – EN ISO/IEC 17025
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9.3 Certificate to state the constancy of performance in accordance with EN 179

Zertifikat zur Bescheinigung der Leistungsbeständigkeit

Zertifikatsnummer: 0757-CPR-229PANIK-7013137-5-4



Gemäß der Verordnung (EU) Nr. 305/2011 des Europäischen Parlaments und des Rates vom 9. März 2011 (Bauproduktenverordnung oder CPR) gilt dieses Zertifikat für das Bauprodukt

Notausgangsverschlüsse

Handelsname Spezifikation
Notausgangsverschlüsse mit Drücker für 1- und 2-flügelige Türen
 gemäß der Zusammenstellung in **Anlage 1**

Leistungsstufen und -klassen
 gemäß der Zusammenstellung in **Anlage 1**

Verwendungszweck
 zur Verwendung an Türen in Flucht- und Rettungswegen mit Anforderungen an den Rauch- und Brandschutz

In Verkehr gebracht unter dem Namen oder der Marke von
GEZE GmbH
 Reinhold-Vöster-Str. 21-29, D-71229 Leonberg
6039631 + 7013137

Notifizierte Stelle
 EG-Prüfungsz.Nr.: **0757**

Dieses Zertifikat bestätigt, dass alle Bestimmungen in Bezug auf die Bewertung und Überprüfung der Leistungsbeständigkeit, die im Anhang ZA der Norm(en)

EN 179 : 2008

Beschrieben werden, unter System 1 für die in diesem Zertifikat aufgeführten Leistungen angewandt werden und dass die vom Hersteller durchgeführte werkseitige Produktionskontrolle bewertet wurde, um die **Leistungsbeständigkeit des Bauprodukts** sicherzustellen.

Dieses Zertifikat wurde erstmalig am 09. September 2009 ausgestellt und besitzt Gültigkeit bis zum 11. Oktober 2018, solange weder die harmonisierten Norm, das Bauprodukt, der AVCP-Methoden, noch die Herstellungsbedingungen im Herstellungsprozess wesentlich geändert werden, sofern sie nicht durch die notifizierte Produktzertifizierungsstelle ausgesetzt oder zurückgezogen wird.

Die Verwendung dieses Zertifikats und die Kennzeichnung der Produkte ist an den bestehenden Zertifizierungs- und Überwachungsvertrag mit dem ift Rosenheim Nr. 229PANIK 7013137 gebunden.


 Prof. Ulrich Strohmann
 Institut für
 ift Rosenheim
 21. Februar 2018


 p.p. Christian Kehler
 Leiter der notifizierten
 Produktzertifizierungsstelle


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Grundlage(n):
EN 179 : 2008



Zertifikat zur Bescheinigung der Leistungsbeständigkeit

Anlage 1 Seite 1 von 4
 Hersteller: GEZE GmbH
 Ausgabedatum: 21. Februar 2018

Zertifikatsnummer: 0757-CPR-229PANIK-7013137-5-4



Notausgangsverschlüsse nach EN 179 : 2008
für 1- und 2-flügelige Türen

Klassifizierung:	3	7	7	B	1	3	4	2	A	A/B
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Verwendungszweck: zur Verwendung an Türen in Flucht- und Rettungswegen mit Anforderungen an den Rauch- und Brandschutz

Referenz-Prüfbericht: Nr. 207 41088 vom 08. September 2009
 Referenz-Prüfbericht: Nr. 207 36801 vom 12. Februar 2009
 Referenz-Prüfbericht: Nr. 120001894.20 vom 29. Dezember 2006 (MPA)
 Referenz-Prüfbericht: Nr. 120001894.21 vom 29. Dezember 2006 (MPA)
 Referenz-Prüfbericht: Nr. 120003909 vom 27. Januar 2012 (MPA)
 Referenz-Prüfbericht: Nr. 13-001273-PR01 vom 14. Mai 2013
 Referenz-Prüfbericht: Nr. 271 35385 Rev 1 vom 29. April 2008
 Referenz-Prüfbericht: Nr. 271 38194 vom 27. Mai 2009
 Referenz-Prüfbericht: Nr. 13-000685-PR04 vom 05. Juli 2013
 Referenz-Prüfbericht: Nr. 13-000685-PR05 vom 05. Juli 2013
 Ergebnisprotokoll: Nr. 12-000623-PR06 vom 28. August 2012
 Ergebnisprotokoll: Nr. 14-003403-PR03 vom 11. Juni 2015
 Ergebnisprotokoll: Nr. 14-003403-PR04 vom 11. Juni 2015

ift Rosenheim GmbH
 Theodor-Geist-Str. 7-9
 D-63028 Rosenheim

Kontakt
 Tel: +49 89 351 261-0
 Fax: +49 89 351 261-300
 www.ift-rosenheim.de

Prüfung und Kalibrierung – EN ISO/IEC 17025
 Institut – EN ISO/IEC 17020
 Zertifizierung Produkte – EN ISO/IEC 17065
 Zertifizierung Managementsysteme – EN ISO/IEC 17021

Notifizierte Stelle
 EG-Prüfungsz.Nr. 0757

DAKKS
 Deutsche
 Akkreditations-
 Gesellschaft

ift Rosenheim GmbH
 Theodor-Geist-Str. 7-9
 D-63028 Rosenheim

Kontakt
 Tel: +49 89 351 261-0
 Fax: +49 89 351 261-300
 www.ift-rosenheim.de

Prüfung und Kalibrierung – EN ISO/IEC 17025
 Institut – EN ISO/IEC 17020
 Zertifizierung Produkte – EN ISO/IEC 17065
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Zertifikat zur Bescheinigung der Leistungsbeständigkeit

Anlage 1 Seite 2 von 4
 Hersteller: GEZE GmbH
 Ausgabedatum: 21. Februar 2018

Zertifikatsnummer: 0757-CPR-229PANIK-7013137-5-4



Verschlüsse:

Funktion	Bezeichnung	Verschlussstyp	Dornmaße	Entfernung	Stulp	Schließblech	Lochung
I	IQ lock M	A	35 mm bis 100 mm	72 mm bis 94 mm	20 mm bis 30 mm	Flachschließblech	Rundzylinder
	IQ lock M DL						
I*	IQ lock C	A	35 mm bis 100 mm	72 mm bis 94 mm	20 mm bis 30 mm	Winkelschließblech	und Profilzylinder
	IQ lock C DL						
II	IQ lock EM	A	35 mm bis 100 mm	72 mm bis 94 mm	20 mm bis 30 mm	Lappenschließblech	
IM	IQ lock EL	A	35 mm bis 100 mm	72 mm bis 94 mm	20 mm bis 30 mm	Flachschließblech	Rundzylinder
	IQ lock EL DL						
IM*	IQ lock AUT	A	35 mm bis 100 mm	72 mm bis 94 mm	20 mm bis 30 mm	Flachschließblech	Rundzylinder

In Kombination mit:

Verschluss:

Nr.	Bezeichnung	Verschlussstyp	Dornmaße	Stulp	Zubehör
1.	Gegenkästen (Gegenbascule) DL	A	35 mm bis 100 mm	20 mm bis 30 mm	133916
					133917
					133918
					133919
					133920
					133921
					133922
					134955
					153706
					153707
					153708
					153709
					153710
					153741
					153742
153705					
153746					

ift Rosenheim GmbH
 Theodor-Geist-Str. 7-9
 D-63028 Rosenheim

Kontakt
 Tel: +49 89 351 261-0
 Fax: +49 89 351 261-300
 www.ift-rosenheim.de

Prüfung und Kalibrierung – EN ISO/IEC 17025
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 EG-Prüfungsz.Nr. 0757

DAKKS
 Deutsche
 Akkreditations-
 Gesellschaft

ift Rosenheim GmbH
 Theodor-Geist-Str. 7-9
 D-63028 Rosenheim

Kontakt
 Tel: +49 89 351 261-0
 Fax: +49 89 351 261-300
 www.ift-rosenheim.de

Prüfung und Kalibrierung – EN ISO/IEC 17025
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 Zertifizierung Produkte – EN ISO/IEC 17065
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Zertifikat zur Bescheinigung der Leistungsbeständigkeit

Anlage 1 Seite 3 von 4
 Hersteller: GEZE GmbH
 Ausgabedatum: 21. Februar 2018

Zertifikatsnummer: 0757-CPR-229PANIK-7013137-5-4



Außen- bzw. Innenbeschlag

Nr.	Hersteller	Typ	Kodierung		
1.	FSB Franz Schneider Brakel GmbH & Co. KG	-/	DO 20.3.01		
			DO 20.3.02		
2.	HOPPE Holding AG	-/	DO 20.5.01		
			DO 20.5.02		
			DO 20.7.01		
			DO 20.2.02		
3.	HEWI Heinrich Wike GmbH	162XA11.530, 162XA12.640, 111XR11.110, 111R11.210, 111R11.230, 111R11.240	DO 20.13		
			1554FHA, 1754FHA, 2254FHA, 2454FHA, 2554FHA	-/	
			D-116.AL, D-116.ER, D-335.ER	-/	
			KABA AG	elologic c-lever	-/
			ASSA ABLOY (Schweiz) AG	-/	5974 5978 5979
8.	Süd-Metal Beschläge GmbH	Paula-R FS	-/		
			1801 FS 1801 R FS 1808 FS	ift Rosenheim	
10.	VIELER International KG	-/	DO 20.12.01		
			DO 20.12.02		
11.	KCC Door Hardware & Security	KF2001 KF5312	ift Rosenheim		

ift Rosenheim GmbH
 Theodor-Geist-Str. 7-9
 D-63028 Rosenheim

Kontakt
 Tel: +49 89 351 261-0
 Fax: +49 89 351 261-300
 www.ift-rosenheim.de

Prüfung und Kalibrierung – EN ISO/IEC 17025
 Institut – EN ISO/IEC 17020
 Zertifizierung Produkte – EN ISO/IEC 17065
 Zertifizierung Managementsysteme – EN ISO/IEC 17021

Notifizierte Stelle
 EG-Prüfungsz.Nr. 0757

DAKKS
 Deutsche
 Akkreditations-
 Gesellschaft

ift Rosenheim GmbH
 Theodor-Geist-Str. 7-9
 D-63028 Rosenheim

Kontakt
 Tel: +49 89 351 261-0
 Fax: +49 89 351 261-300
 www.ift-rosenheim.de

Prüfung und Kalibrierung – EN ISO/IEC 17025
 Institut – EN ISO/IEC 17020
 Zertifizierung Produkte – EN ISO/IEC 17065
 Zertifizierung Managementsysteme – EN ISO/IEC 17021

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Zertifikat zur Bescheinigung der Leistungsbeständigkeit

Anlage 1 Seite 4 von 4
 Hersteller: GEZE GmbH
 Ausgabedatum: 21. Februar 2018



Zertifikatsnummer: 0757-CPR-229PANIK-7013137-5-4

Erläuterungen:

- Beschreibung:** Selbsttätig beim Schließen, verriegelnde Einsteckschlösser mit Fluchtfunktion (Panikfunktion) und geteilter Kreuzfalle. Der Riegel ist mittig zwischen den beiden Falenteilen angeordnet.
- Funktion I:** Einteilige Schlossnuss, ständig wirkende Fluchtfunktion von innen. Von innen ist das Öffnen über den Innenbeschlag immer möglich. Von außen kann mit dem Schlüssel über den Wechsel geöffnet werden.
 *mit zusätzlichen im Schloss integrierten Rückmeldekontakten
- Funktion II:** Geteilte Schlossnuss, ständig wirkende Fluchtfunktion von innen. Von innen ist das Öffnen über den Innenbeschlag immer möglich. Der Außenbeschlag, bzw. die Außenschalthe wird elektronisch geregelt ein- oder ausgekuppelt. Es wird ein Spezial-Beschlag mit geteiltem Stift benötigt.
- Funktion IM:** Einteilige Schlossnuss, ständig wirkende Fluchtfunktion von innen. Von innen ist das Öffnen über den Innenbeschlag immer möglich. Von außen kann mit dem Schlüssel über den Wechsel geöffnet werden. Motorischer Riegelantrieb.
 *motorische Entriegelung von Gang- und Standflügel
- Schließzylinder:** Alle Bauarten von Schließzylindern mit Freilauffunktion haben keinen Einfluss auf eine einwandfreie Funktion.

ift Rosenheim GmbH Kontakt Prüfung und Kalibrierung – EN ISO/IEC 17025
 Theodor-Geisler-Str. 7-9 Telefon – EN ISO/IEC 17025
 D-83028 Rosenheim Fax – EN ISO/IEC 17025
 www.ift-rosenheim.de Zertifizierung Produkte – EN ISO/IEC 17065
 Zertifizierung Managementsysteme – EN ISO/IEC 17021

Hersteller-Beleg 4797
 10/2017
 17025-001-010



9.4 Certificate recognising components and systems in accordance with VdS

Zertifikat

Certificate



Anerkennung von Bauteilen und Systemen Approval of Components and Systems

Inhaber der Anerkennung
Holder of the Approval
GEZE GmbH
Reinhold-Vöster-Straße 21 - 29
71229 Leonberg

Anerkennungs-Nr. Approval No.	Anzahl der Seiten No. of pages	gültig vom valid from	gültig bis valid until
M 114320	4	18.04.2018	10.04.2022

Gegenstand der Anerkennung
Subject of the Approval
Zylinderschloss - Klasse A/GEZE IQ Lock
Cylinder lock - class A/GEZE IQ Lock

Verwendung
Use
als mechanische Sicherungseinrichtung
as physical security equipment

Anerkennungsgrundlagen
Basis of the Approval
VdS 2344:2014-07
VdS 2201:2004-02
DIN 18 251-1:2002-07

Köln, den 18.04.2018



Dr. Reiner Mann
Geschäftsführer
Managing Director



i. V. Prudent
Leiter der Zertifizierungsstelle
Head of Certification Body





Die Anerkennung umfasst nur das angegebene Bauteil/System in der zur Prüfung angegebenen Ausführung
 - mit den Bestandteilen nach Anlage 1,
 - dokumentiert in den technischen Unterlagen nach Anlage 2,
 - zur Verwendung in den angegebenen Einrichtungen der Brandschutz- und Sicherungstechnik.
 Bei der Anwendung des Gegenstandes der Anerkennung sind die Hinweise nach Anlage 3 zu beachten.
 Das Zertifikat darf nur unverändert und mit sämtlichen Anlagen vervollständigt werden. Alle Änderungen der Voraussetzungen für die Anerkennung sind der VdS-Zertifizierungsstelle - mit allen erforderlichen Unterlagen - unverzüglich zu übermitteln.
This Approval is valid only for the specified component/system as submitted for testing
 - together with the parts listed in enclosure 1
 - documented in the technical documents according to enclosure 2
 - for the use in the specified fire protection and security installations.
 When using the subject of the approval the notes of enclosure 3 shall be observed.
 This certificate may only be reproduced in its present form without any modifications including all enclosures. All changes of the underlying conditions of this approval shall be reported at once to the VdS certification body including the required documentation.
VdS Schadenverhütung GmbH
 Zertifizierungsstelle
 Amsterdamer Str. 174
 D-50729 Köln
 Ein Unternehmen des Gesamtverbandes der Deutschen Versicherungswirtschaften (GDV) durch die DAKKS akkreditiert als Zertifizierungsstelle für Produkte in den Bereichen Brandschutz und Sicherungstechnik.
 A company of the German Insurance Association (GDV) accredited by DAKKS as certification body for fire protection and security products

Germany
GEZE GmbH
Niederlassung Süd-West
Tel. +49 (0) 7152 203 594
E-Mail: leonberg.de@geze.com

GEZE GmbH
Niederlassung Süd-Ost
Tel. +49 (0) 7152 203 6440
E-Mail: muenchen.de@geze.com

GEZE GmbH
Niederlassung Ost
Tel. +49 (0) 7152 203 6840
E-Mail: berlin.de@geze.com

GEZE GmbH
Niederlassung Mitte/Luxemburg
Tel. +49 (0) 7152 203 6888
E-Mail: frankfurt.de@geze.com

GEZE GmbH
Niederlassung West
Tel. +49 (0) 7152 203 6770
E-Mail: duesseldorf.de@geze.com

GEZE GmbH
Niederlassung Nord
Tel. +49 (0) 7152 203 6600
E-Mail: hamburg.de@geze.com

GEZE Service GmbH
Tel. +49 (0) 1802 923392
E-Mail: service-info.de@geze.com

Austria
GEZE Austria
E-Mail: austria.at@geze.com
www.geze.at

Baltic States –
Lithuania / Latvia / Estonia
E-Mail: baltic-states@geze.com

Benelux
GEZE Benelux B.V.
E-Mail: benelux.nl@geze.com
www.geze.be
www.geze.nl

Bulgaria
GEZE Bulgaria - Trade
E-Mail: office-bulgaria@geze.com
www.geze.bg

China
GEZE Industries (Tianjin) Co., Ltd.
E-Mail: chinasales@geze.com.cn
www.geze.com.cn

GEZE Industries (Tianjin) Co., Ltd.
Branch Office Shanghai
E-Mail: chinasales@geze.com.cn
www.geze.com.cn

GEZE Industries (Tianjin) Co., Ltd.
Branch Office Guangzhou
E-Mail: chinasales@geze.com.cn
www.geze.com.cn

GEZE Industries (Tianjin) Co., Ltd.
Branch Office Beijing
E-Mail: chinasales@geze.com.cn
www.geze.com.cn

France
GEZE France S.A.R.L.
E-Mail: france.fr@geze.com
www.geze.fr

Hungary
GEZE Hungary Kft.
E-Mail: office-hungary@geze.com
www.geze.hu

Iberia
GEZE Iberia S.R.L.
E-Mail: info.es@geze.com
www.geze.es

India
GEZE India Private Ltd.
E-Mail: office-india@geze.com
www.geze.in

Italy
GEZE Italia S.r.l.
E-Mail: italia.it@geze.com
www.geze.it

GEZE Engineering Roma S.r.l.
E-Mail: italia.it@geze.com
www.geze.it

Korea
GEZE Korea Ltd.
E-Mail: info.kr@geze.com
www.geze.com

Poland
GEZE Polska Sp.z o.o.
E-Mail: geze.pl@geze.com
www.geze.pl

Romania
GEZE Romania S.R.L.
E-Mail: office-romania@geze.com
www.geze.ro

Russia
OOO GEZE RUS
E-Mail: office-russia@geze.com
www.geze.ru

Scandinavia – Sweden
GEZE Scandinavia AB
E-Mail: sverige.se@geze.com
www.geze.se

Scandinavia – Norway
GEZE Scandinavia AB avd. Norge
E-Mail: norge.se@geze.com
www.geze.no

Scandinavia – Denmark
GEZE Danmark
E-Mail: danmark.se@geze.com
www.geze.dk

Singapore
GEZE (Asia Pacific) Pte, Ltd.
E-Mail: gezesea@geze.com.sg
www.geze.com

South Africa
GEZE South Africa (Pty) Ltd.
E-Mail: info@gezesa.co.za
www.geze.co.za

Switzerland
GEZE Schweiz AG
E-Mail: schweiz.ch@geze.com
www.geze.ch

Turkey
GEZE Kapı ve Pencere Sistemleri
E-Mail: office-turkey@geze.com
www.geze.com

Ukraine
LLC GEZE Ukraine
E-Mail: office-ukraine@geze.com
www.geze.ua

United Arab Emirates/GCC
GEZE Middle East
E-Mail: gezeme@geze.com
www.geze.ae

United Kingdom
GEZE UK Ltd.
E-Mail: info.uk@geze.com
www.geze.com

GEZE GmbH
Reinhold-Vöster-Straße 21–29
71229 Leonberg
Germany

Tel.: 0049 7152 203 0
Fax.: 0049 7152 203 310
www.geze.com

