



GEZE SECULOGIC ACCESS CONTROL SYSTEMS
SOLUTIONS FOR EVERY SECURITY CONCEPT



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Security requires trust

Security – whether in a company or in one's own four walls – is not only highly topical but above all a highly sensitive topic. Who may view which data when – and who not? Security already begins in controlling access. The access control system not only protects sensitive information, but also clearly regulates responsibilities and last but not least produces trust at business partners. However, security also requires trust – both in the technology and in the associated service. This is indispensable. You can therefore rely on 2-fold security at the products and service of GEZE:

INNOVATIVE TECHNOLOGY

Always one step ahead: GEZE fulfills this requirement by using the latest standard in data communication and having its products and system measured against the strictest quality criteria (CE and CSA certification).



HOTO Tower T-com, Zagreb, Croatia



COMPETENT ADVICE

Irrespective of whether you are planning or extending a security concept or have a question: It is important that you are helped immediately and competently. A simple phone call is enough – GEZE is at your service. By no means the same service for everyone – but an individual service for every single one.



New generation. New standards

GEZE has developed a new generation of the GEZE SecuLogic access control systems on the basis of RFID technology (see below) and biometrics identification. It provides a complete range of services – from the autonomous simple securing of a door to a highly integrated security concept for large companies.

RFID = Radio Frequency Identification

RFID is a procedure for automatic, non-contacting identification of objects or persons or to detect and record data.

An RFID system consists of a transponder that transmits data in encrypted form (identifies) as well as a reading device for reading out the transponder identifier. The reading device contains a software that controls the actual reading process and furthermore often interfaces to further EDP systems and databases.

The advantages of the RFID technology compared to conventional magnetic stripe cards or bar codes lie in the encryption of the data transfer, in the simple reading-out options and last but not least in the compactness – and thus its high comfort – of its transponder. Soiling, data loss or simple copying such as at magnetic stripes or bar codes are almost impossible in RFID technology.



Security in the company ...

Modern access control systems are powerful and versatile: They guide visitors and employees in accordance with area- and time-based access rights that you can have created in a few seconds and individually for each door. The wide range of identification media (keyring pendant, ID card, fingerprint, PIN) are a factor just like the smooth and reliable intercommunication of the components.

... and at home

Protect your privacy: Its simple handling allows the access control system to be used with ease in your home. Whether access control at the front door, sabotage monitoring or door opener: Your house becomes more secure.



Access with system

The new generation of GEZE SecuLogic access control systems not only have to interact intelligently and be state-of-the-art – they have to be foremost easy to extend and simply to operate.

- **High security standard** for the requirements of tomorrow

- **Comfortable**

Ready to operate immediately without additional software, simple to handle, with an efficient management as well as outstanding data communication.

- **Compact**

The minimal dimension means: Mounted rapidly and simply, blends harmoniously into the surroundings.

- **Flexible**

Whatever your security concept is: You implement it effortlessly with just a few clicks – in your familiar browser environment. Create detailed access plans, exact movement profiles, complete reports up to personnel lists and virtual keys in no time at all. The clearly structured user interface that is easy to learn (for the Comfort- and Individual-Line) is an additional advantage.

- **Independent**

Independent of EDP and platform and linguistically versatile. This means: You simply keep working in your familiar hard- and software environment!

GEZE SecuLogic access control systems

Your personal security service

The GEZE SecuLogic access control system adapts itself step-by-step to the size and the requirements of your security concept. Simply select the suitable system:

▪ Basic-Line – Simple and reliable

Ideal for the private use: Stand-alone system for access control of one door (1 reading module, controlling of a Single Door Unit).

▪ Comfort-Line – Network solution for up to eight doors (can be extended optionally)

Simple monitoring and controlling using Door and Master Units; management using the standard browser. Non-EDP-specific software with international user interface (language diversity).

▪ Individual-Line – Tailored exactly to your building

Scaleable system, created completely to individual requirements. Numerous functional extensions.

▪ GEZE-Kits – Complete in one package: Each GEZE-Kit contains a complete access control system that is ready for immediate use.

System description	Basic-Line	Kit 1	Kit 2	Comfort-Line	Kit 3	Kit 4	Individual-Line *
Access via network				●	●	●	●
Integrated database of authorization profiles				●	●	●	●
Event memory				●	●	●	●
Web server including multilingual access control application				●	●	●	●
Connection via browser				●	●	●	●
Number of controllers in the system	1	1	1	1	1	1	max. 4
Master card system for programming the authorization	●	●					
Number of readers/checkpoints	1	1	1	max. 8	1	1	max. 96
Number of users/authorized persons	20	20	20	500	500	500	> 500
Access groups (profiles)	1 (24/7)	1 (24/7)	1 (24/7)	500	500	500	> 500
Functions							
Calendar functions				●	●	●	●
Special days/holidays/vacations				●	●	●	●
International holiday calculation				●	●	●	●
Periodic calendar entries with repeat function				●	●	●	●
Threat functions				●	●	●	●
Door control functions				●	●	●	●
Office mode				●	●	●	●
Door open/door locked profiles				●	●	●	●
Temporal re-lock Anti-passback				●	●	●	●
Door monitoring				●	●	●	●
Door intrusion				●	●	●	●
Door open time too long				●	●	●	●
Interfaces							
Interface to RWS TZ320				●	●	●	●
Interface to panic lock IQ Lock	●	●	●	●	●	●	●
Hardware/Control							
Door Unit 100 GCDU 100	●	●	●				
Door Unit 200 GCDU 200				●			●
Master Door Unit 200 GCMDU 200				●	●	●	●
Master Unit 200 GCMU 200				●			●
Reader systems							
Finger Print (Biometric) GCFP 401	●		●	●		●	●
RFID-Reader GCVR 200	●	●		●	●		●
RFID-Reader with keypad GCVR 200 T				●			●
RFID-Reader system 50 GCRR 200	●			●			●

* The potential of the Individual-Line is depending on the project and can not be represented in all combinations.

GEZE SecuLogic access control systems

Hardware/Controller	GCDU 100	GCMDU 200	GCMU 200	GCMU 524	GCDU 200
Network interface					
Ethernet TCP/IP 10/100 Mbit	○	●	●	●	○
Offline functions	●	●	●	●	
Number of Door Units (MU)			4	12	
Interface Door Unit RS 485			●	●	
Interface Reader RS 485	●	●	●		●
Number of readers per Door Unit	1	2			2
Input (DU)		6			6
Output (DU)		5			5
Relay (DU)	1	2			2

Reader/Identification feature Registration Unit	GCFP 401 (Biometric)	GCVR 200 (RFID)	GCVR 200 T (RFID)	GCRR 200 (RFID)
125 kHz/EM*		●	●	●
Mounting	Surface mounting	Flush-mount	Flush-mount	Flush-mount (System 50)
Option surface frame		●	●	
Tamper monitoring	●	●	●	●

* Other reading procedures on request

● = standard

○ = not possible with this variant

GEZE Basic-Line

System structure

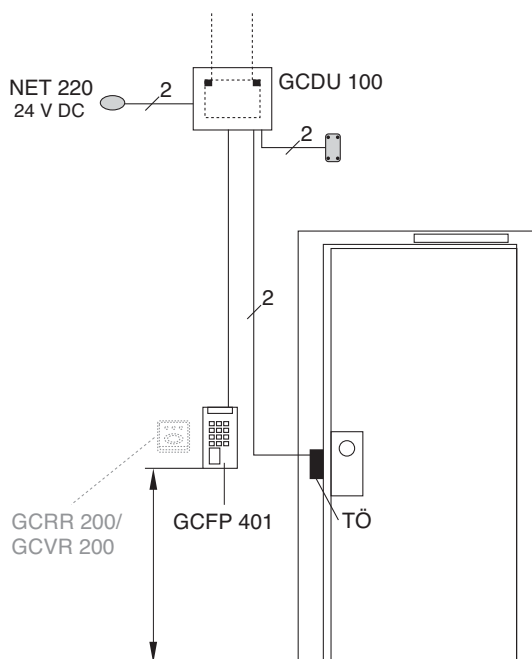


Description of function

GEZE Basic-Line is a stand-alone system for 1 reading module. A computer does not have to be connected. A master transponder reads the access data directly at the reader and can also delete them there at any time. This ensures that the reader is equipped at all times with individual access rights. The fingerprinter detects the access authorisation directly at the reader via the keyboard and optical finger scanner. An RS485 bus line connects the reader (GCFP 401, GCRR 200 or GCVR 200(T)) with the Door Unit (GCDU 100). This controls the doors from the secured area.

Basic-Line can be extended at any time to a networked solution (Comfort-Line).

Cable layout



Products to be combined can be found in following brochures:

- GEZE SecuLogic Escape route systems
- GEZE Automatic swing door systems
- GEZE IQ Locks – Panic lock systems

and on the Internet at www.geze.com

For more information on the topic of escape routes and (escape) door openers, also refer to the door control units GEZE TZ 220 N, TZ 320 and automatic door systems GEZE TSA 160 NT as well as self-locking panic locks GEZE IQ Locks.

Note: At a cable length of more than 100 m use a local power source for the reader. The GCDU 100 supplies a potential-free contact. An external voltage source is therefore always required for the door opener.

GEZE SecuLogic Kits

Complete in one package: Each GEZE kit contains a complete access control system that is ready for immediate use. Whether in stand-alone operation (Kit 1 + 2) or with numerous additional monitoring functions (Kit 3 + 4) – take off!

GEZE SecuLogic Kit 1

- GEZE Single Door Unit GCDU 100
- GEZE RFID-Reader GCVR 200 (AP/UP)
- GEZE plug-in power pack GCSN24/1
- GEZE card and keyring pendant (10 pc. each)



GEZE SecuLogic Kit 2

- GEZE Single Door Unit GCDU 100
- GEZE Finger Print GCFP 401
- GEZE plug-in power pack GCSN24/1



ORDERING INFORMATION

Description	Finish	ID no.
GEZE SecuLogic Kit 1	see figure	131025
GEZE SecuLogic Kit 2	see figure	131026

GEZE Comfort-Line

System structure



Description of function

GEZE Comfort-Line extends the Basic-Line standard variant to a network with access rights for up to 8 doors/control points. The individual Door Units (GCDU 200) are controlled by a Master Unit (GCMU 200). The Master and Door Unit are optionally combined into one component (GCMDU 200). Depending on the requirements, the system can be extended. In addition the Comfort-Line is characterised by an integrated web server and a clearly structured user interface. It supports most of the European and East European languages. Access rights can thus be managed comfortably from a standard browser.

System components

- GEZE Master and Door Unit GCMU 200
- GEZE Master Unit GCMU 200
- GEZE Door Unit GCDU 200
- GEZE Finger Print GCFP 401
- GEZE RFID-Reader GCRR 200
- GEZE RFID-Reader GCVR 200(T)
- GEZE Power pack NET 220

Products to be combined can be found in following brochures:

GEZE SecuLogic Escape route systems

GEZE Automatic swing door systems

GEZE IQ Locks – Panic lock systems

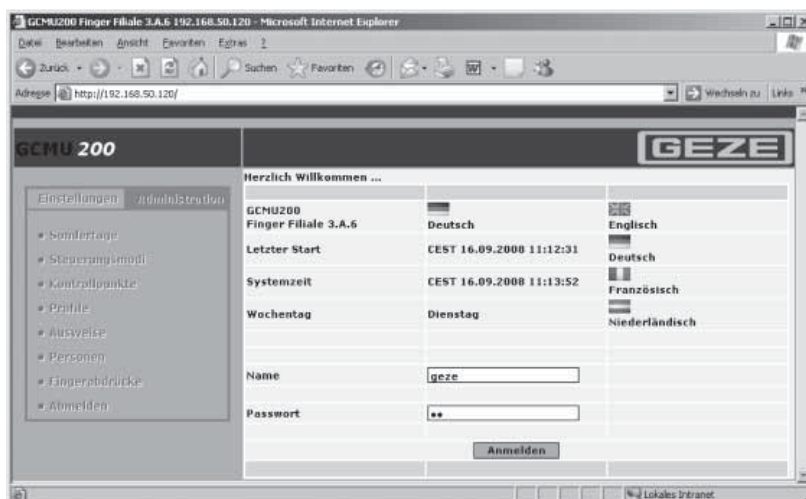
and on the Internet at www.geze.com

For more information on the topic of escape routes and (escape) door openers, also refer to the door control units GEZE TZ 220 N, TZ 320 and automatic door systems GEZE TSA 160 NT as well as self-locking panic locks GEZE IQ Locks.

User interface

The newly developed program user interface is characterised by its comfortable and intuitive handling. This begins with the extensive language selection of the program, continues in the clearly structured page layout and leads to its constant availability – integrated in the standard browser!

Note: Operating manual as a download on the Internet at www.geze.de/seculogic



GCMU200 Fingerfalle 3.A.6 192.168.50.120 - Microsoft Internet Explorer

Datei Bearbeiten Ansicht Favoriten Extras 2

Zurück + Suchen Favoriten

Adresse http://192.168.50.120/GCMU Wechseln zu 192.168.50.120

GCMU200

GEZE

Einstellungen Administration

- Sondertage
- Steuerungsmodi
- Kontrollpunkte
- Profile
- Ausweise
- Personen
- Fingerabdrücke
- Abmelden

Person

Parameter	Wert	Beispiel
Personen Nummer		00000001
Person löschen		
Fingerabdruck Nummer	Keine verfügbar	
Nachname	Musterman	Mustermann
Vorname	Maximilian	Gabi
PIN	****	1234
Türöffnungszeit	0,1 (Keine pers. Zeit) 9,9 - 99	s (0 - 5
Maximale Türöffnungszeit	0,1 (Keine pers. Zeit) 9,9 - 99	s (0 - 10
Ereignis Alarm Level	Standardlevel	
Profil	All Card H	Chef
Profil Beginn	01102008	01.01.2006 00:00
Profil Ende	01102016	31.12.2007 23:59
Vertretungsprofil	All Card H	
Vertretungsprofil Beginn	22112008	01.01.2006 00:00
Vertretungsprofil Ende	28112008	31.12.2007 23:59

Person erstellen

Speichern

Abbrechen

Fertig Lokales Drucken

Note: At a cable length of more than 100 m use a local power source for the reader. The GCDU 200 supplies a potential-free contact. An external voltage source is therefore always required for the door opener.

GEZE SecuLogic Kits

Complete in one package: Each GEZE kit contains a complete access control system that is ready for immediate use. Whether in stand-alone operation (Kit 1 + 2) or with numerous additional monitoring functions (Kit 3 + 4) – take off!

GEZE SecuLogic Kit 3

- GEZE Master Unit und Door Unit GCMDU 200
- GEZE RFID-Reader GCVR 200 (AP/UP)
- GEZE plug-in power pack GCSN24/1
- GEZE card and keyring pendant (10 pc. each)



GEZE SecuLogic Kit 4

- GEZE Master Unit und Door Unit GCMDU 200
- GEZE Finger Print GCFP 401
- GEZE plug-in power pack GCSN24/1



ORDERING INFORMATION

Description	Finish	ID no.
GEZE SecuLogic Kit 3	see figure	131027
GEZE SecuLogic Kit 4	see figure	131028

GEZE Individual-Line

GEZE Individual-Line is the complete solution specially elaborated in accordance with the individual customer requirements.

Description of function

The concept as an open system leaves scope for many individual design options, e.g. with interfaces to alarm systems or to the building management system. The subsystems can be scaled freely.

GEZE Individual-Line is furthermore independent of the platform, and thus also the operating system. The specially tailored solution is finally integrated completely and harmonically into the existing system.

Our solutions in the Individual-Line encompass, for example

- Access control
- Ensuring the escape route
- Electronic locking systems
- Biometric systems
- Time registration
- Interfaces
- Visualisation
- OPC
- TCP/IP
- Video technology

Products to be combined can be found in following brochures:

GEZE SecuLogic Escape route systems

GEZE Automatic swing door systems

GEZE IQ Locks – Panic lock systems

and on the Internet at www.geze.com

For more information on the topic of escape routes and (escape) door openers, also refer to the door control units GEZE TZ 220 N, TZ 320 and automatic door systems GEZE TSA 160 NT as well as self-locking panic locks GEZE IQ Locks.

GEZE Single Door Unit GCDU 100

For GEZE Basic-Line

The Single Door Unit GCDU 100 controls the opening procedure of a door. Together with the GEZE Finger Print or RFID Reader the Single Door Unit GCDU 100 constitute a small, but nevertheless comprehensive stand-alone solution. Special functions at the door, such as an electrical (escape) door opener or a door locking system, can be integrated without any problem.

The Single Door Unit GCDU 100 is connected to a reader (such as GCFP 401) by means of a two-wire line (RS485). It is located in the secured interior area. In the case of a release the reader sends an encrypted signal to the Single Door Unit (GCDU 100) that then switches its relay to release the door.

GEZE GCDU 100



GEZE Single Door Unit GCDU 100



Housing

Area of application

- Access evaluating unit for 1 door
- Without computer connection or network (stand-alone)

Product features

- Encrypted data transfer
- Up to 20 users

Housing

for Door Unit GCDU 100 and GCDU 200, Master Unit GCMU 200, Master Unit and Door Unit GCMU 200

- Metal panel with plastic cover (standard)
- Openings for cable feedthrough on side and in bottom plate

Technical data GEZE Single Door Unit GCDU 100	
Dimensions (W x H x D)	120 x 120 x 40 mm
Weight	approx. 100 g
Voltage range	10–28 V DC
Current consumption	30 mA at 15 V DC (without connected reader)
Power consumption	0,5 W (depends on the current consumption of the readers)
Relay contact max.	48 V/2 A
Output current 12-V-Leser	1 A
Temperature range	0–40 °C
Protection type	IP 20
Interface	RS 485
Field of use	Interiors up to 85 % humidity (non condensing)

ORDERING INFORMATION

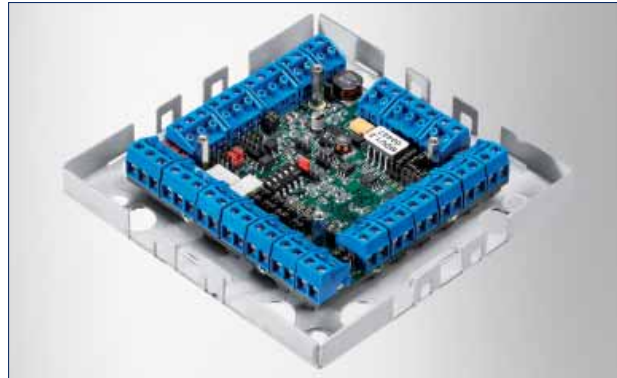
Description	Finish	ID no.
GEZE Single Door Unit GCDU 100	incl. housing	130663

GEZE Door Unit GCDU 200

For GEZE Comfort-Line and Individual-Line

The Door Unit GCDU 200 transmits the closing and opening commands to up to 2 doors. In combination with the Master Unit GCMU 200 it realises a modular structure of the access control system: Up to 4 Door Units can be connected to a Master Unit so that up to 8 readers can be controller per Master Unit. With its variable and versatile system of interfaces, inputs and outputs, the GCDU can not only be equipped with all the common reading systems, but also transmits many switching functions (e.g. door openers) or transmits messages.

GEZE GCDU 200



GEZE Door Unit GCDU 200



Housing

Area of application

- Door interface for 2 doors
- Connection via RS 485 to Master Unit GCMU 200

Product features

- System extension possible by connecting up to 4 Door Units to a Master Unit (corresponds to 1 to 8 readers)
- Encrypted data transfer
- With 2 RS 485 interfaces
- 6 inputs and 5 outputs (OC)
- 2 x relay

Technical data GEZE Door Unit GCDU 200

Dimensions (W x H x D)	120 x 120 x 40 mm
Weight	approx. 300 g
Voltage range	10–28 V DC
Current consumption	120 mA at 15 V DC (without connected reader)
Power consumption	0,5 W (depends on the current consumption of the readers)
Relay contact max.	48 V / 2 A
Output current 12-V-Leser	1 A
Temperature range	0–40 °C
Protection type	IP 20
Interface	2 x RS 485
Field of use	Interiors up to 85 % humidity (non condensing)

ORDERING INFORMATION

Description	Finish	ID no.
GEZE Door Unit GCDU 200	incl. housing	130012

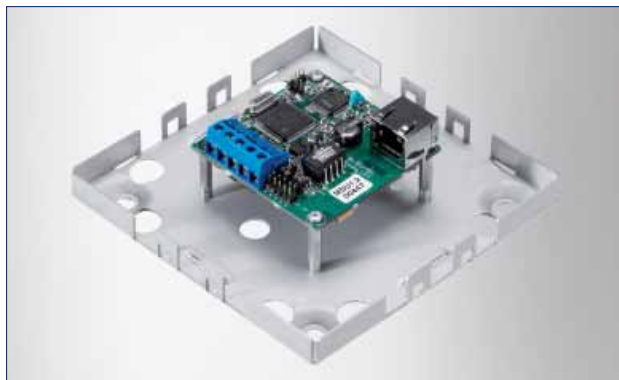
GEZE Master Unit GCMU 200

For GEZE Comfort-Line and Individual-Line

The Master Unit GCMU 200 manages several Door Units GCDU 200 in a networked system. It furthermore includes the function of a web server and the corresponding access control software. In addition to the control function of the Master Unit GCMU 200, the comfortable selection of a total 4 identification modes is notable: The users can thus identify themselves with a card, per biometrics (finger print), with a card and PIN or biometrics and PIN.

Access to integrated access control software is ensured through simple linking to the extended TCP/IP network of the Master Unit 200 and via a standard browser (Internet Explorer, Firefox, Opera).

GEZE GCMU 200



GEZE Master Unit GCMU 200



Housing

Area of application

- Access controller for 4 Door Units
- Networked systems

Product features

- Integrated web server
- Integrated access control software
- Controlling via standard browser
- Versatile monitoring functions: Event recording, alarming, creation of schedules and access groups, holiday calendar, special days, etc.
- Licence-free
- Maintenance-free

Technical data GEZE Door Unit GCDU 200

Dimensions (W x H x D)	120 x 120 x 40 mm
Weight	approx. 100 g
Voltage range	10–28 V DC
Current consumption	120 mA at 15 V DC
Power consumption	1,8 W
Ethernet	optional connection 10 or 100 MBit/s
Temperature range	0–40 °C
Protection type	IP 20
Interface	RS 485
Field of use	Interiors up to 85 % humidity (non condensing)

ORDERING INFORMATION

Description	Finish	ID no.
GEZE Master Unit GCDU 200	incl. housing	129980

GEZE Master Unit und Door Unit GCMDU 200

For GEZE Comfort-Line and Individual-Line

The GCMDU 200 encompasses the Master Unit GCMU 200 and the Door Unit GCDU 200 in one component.

Its use is advisable in particular when the available space is limited: For it combines the functions of the individual components and thus realises a space-saving access control system.

GEZE GCMDU 200



GEZE Master Unit and Door Unit GCMDU 200



Housing

Area of application

- Networked systems

Product features

- Space-saving
- Optimally suited for modular structures in a networked system
System can be extended by connecting further Door Units to a Master Unit
(up to 4 Door Units, max. 8 Reader)
- Combines the functions of the Master Unit GCMU 200 and the Door Unit GCDU 200
- Event memory for up to 5000 records
- Password protection
- Freely-programmable alarm input and relay output control

Technical data GEZE Master Unit and Door Unit GCDU 200

Dimensions (W x H x D)	120 x 120 x 40 mm
Weight Door Unit/Master Unit	approx. 300 g/approx. 100 g
Voltage range	10–28 V DC
Current consumption	240 mA at 15 V DC (without connected reader)
Power consumption	2–18 W (depends on the current consumption of the readers)
Ethernet	10/100 MBit/s
Relay contact max.	48 V / 2 A
Output current 12-V-reader	1 A
Voltage range signal inputs (X26-X31)	3–24 V DC
Temperature range	0–40 °C
Protection type	IP 20
Interface	RS 485
Field of use	Interiors up to 85 % humidity (non condensing)

ORDERING INFORMATION

Description	Finish	ID no.
GEZE Master Unit and Door Unit GCMDU 200	incl. housing	129979

GEZE Finger Print GCFP 401

For GEZE Basic-Line, Comfort-Line and Individual-Line

This optical biometrics reader recognises authorised persons on the basis of their fingerprints. The GCFP 401 optionally accepts the input of a PIN on the keyboard. Thanks to its protection type IP 65, the GCFP 401 is suitable both for stationary operation in interiors and also for unprotected exteriors. Finger data are recorded directly at the reader (enrolment).

Stored finger data are transmitted via the network to further biometrics readers of the access control system so that the data only have to be recorded once.

GEZE GCFP 401



GEZE Finger Print GCFP 401

Area of application

- Suitable for exterior and interior use
- Access control
- General user identification

Product features

- Capacity: 500 users (two fingers each)
- 1-to-n identification
- Optical (3-colour LED) and acoustical indication
- Signal device up to 97 dB
- Sensor touch keyboard (for optical PIN input)
- EMC/CE requirement and NEMA IP 65 certified
- Can be used both in stand-alone operation (Basic-Line) as well as in a network solution (Comfort-, Individual-Line)

Technical data GEZE Finger Print GCFP 401		
Dimensions (W x H x D)		120 x 60 x 15/45 mm
Weight		approx. 200 g
Voltage range		10–28 V DC
Current consumption		5 W
Temperature range		-10 to +50 °C
Protection type		IP 65
Interface		RS 485
Sensor	Resolution	500 dpi @ 8 bit per pixel
	Active area	14 x 22 mm
	Template size	130–250 bytes
	Storage capacity	500 templates with 2 fingers (optional 3000 templates)

ORDERING INFORMATION

Description	Finish	ID no.
GEZE Finger Print GCFP 401	silver	130017
	black	131902

Further colours on request

GEZE RFID-Reader GCRR 200

For GEZE Basic-Line, Comfort-Line and Individual-Line

Flat, practical, universal application: The GCRR 200 is a non-contacting reader, optimally suited for higher-level systems in the interior and exterior, e.g. for access control, park systems or for user identification. With two inputs and wiring via the standard RS 485 bus, door monitoring is, e.g. a popular application for the GCRR 200.

Thanks to its standardised dimensions it can be integrated variably in all the common switch ranges of products.

The GCRR 200 can also be surface-mounted by using the optionally available surface-mounting housing.

GEZE GCRR 200



GEZE RFID-Reader GCRR 200

Area of application

- Suitable for exterior and interior use
- Access control
- Park systems
- General user identification

Product features

- Flat design, slight installation depth, therefore suitable for concealed mounting
- Can be integrated in all the switch range of products that have a standard intermediate frame (cut-out 50 x 50 mm) e. g. Berker, Busch-Jaeger, ELSO, Gira, JUNG, Kopp, Merten, PEHA, Popp
- **Note:** List of suitable additional parts available on the Internet
- Sabotage recognition and monitoring
- Front module with integrated reading system and three LED fields (green, yellow, red)
- Return module with integrated interface, DIP switch, piezo buzzer (acoustical signaling device with buzzer tone), switching controller and terminals
- Type of connection: Screw terminals (lift system)
- Clear cover with integrated design film

Technical data GEZE RFID-Reader GCRR 200	
Dimensions (W x H x D)	50 x 50 x 43 mm
Reading distance	ID cards 4 cm Keyring pendants 2 cm
Power supply	8–30 V DC
Power consumption	max. 2,5 W
Temperature range	Storage temperature -30 to +70 °C Operating temperature -25 to +60 °C
Protection type in built-in-state	Depending on the switch range of products of the various manufacturers
Interface	RS 485
Reading system options RFID-Technology	EM (other reading systems on request)

ORDERING INFORMATION

Description	Finish	ID no.
GEZE RFID-Reader GCRR 200	silver	130019

Further colours on request

GEZE RFID-Reader GCVR 200/GCVR 200T**For GEZE Basic-Line, Comfort-Line and Individual-Line**

The GCRV 200 is a non-contacting reader, optimally suited for higher-level systems in the interior and exterior, e.g. for access control, park systems or for user identification. Comparable in function with the GCRR 200, the GCVR 200 is furthermore also available as a variant with keyboard (GCVR 200T).

The surface-mounted variant provides variable cable inlet options from above, the side or below to simplify mounting.

**GEZE GCVR 200
GEZE GCVR 200T**

GEZE RFID-Reader GCVR 200



GEZE RFID-Reader GCVR 200T

Area of application

- Suitable for exterior and interior use
- Access control
- Park systems
- General user identification

Product features

- Compact design
- Flush-mount variant fits onto every standard box
- Surface mounting variant: Cable inlet options from above, the side or below
- Sabotage recognition and monitoring
- Front module with integrated reading system and three LED fields (green, yellow, red)
- Return module with integrated interface, DIP switches, piezo buzzer (acoustical signaling device with buzzer tone), switching controller and terminals

Technical data GEZE RFID-Reader GCVR 200 and GCVR 200T	
Dimensions (W x H x D)	Flush-mount: 81 x 81 x 11 mm Surface mounting: 81 x 81 x 40 mm
Reading distance	ID cards 8 cm 125 kHz Keyring pendants 3 cm 125 kHz
Power supply	8–30 V DC
Power consumption	max. 2,5 W
Temperature range	Storage temperature -30 to +70 °C Operating temperature -25 to +60 °C
Protection type	IP 54
Interface	RS 485
Reading system options RFID-Technology	EM (other reading systems on request)

ORDERING INFORMATION

Description	Finish	ID no.
GEZE RFID-Reader GCVR 200	Front module silver, housing grey	130022
GEZE RFID-Reader GCVR 200T	Front module silver with keyboard, housing grey	130023

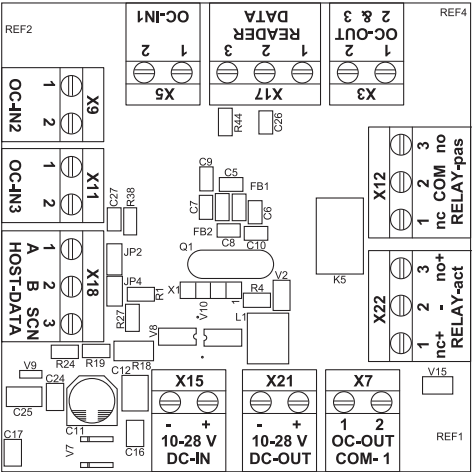
Further colours on request

GEZE Door Unit
GCDU 100

Technical data Interface

Reader	1 x RS 485 (max. 1200 m)
Evaluating unit	RS 485 (max. 1200 m from the evaluating unit to the reader)
I/O	2 outputs (OC), 1 relay, 1 reader connection, 3 inputs
Voltage range DC	In 10-28 V DC
	Out 1 x 12 V DC

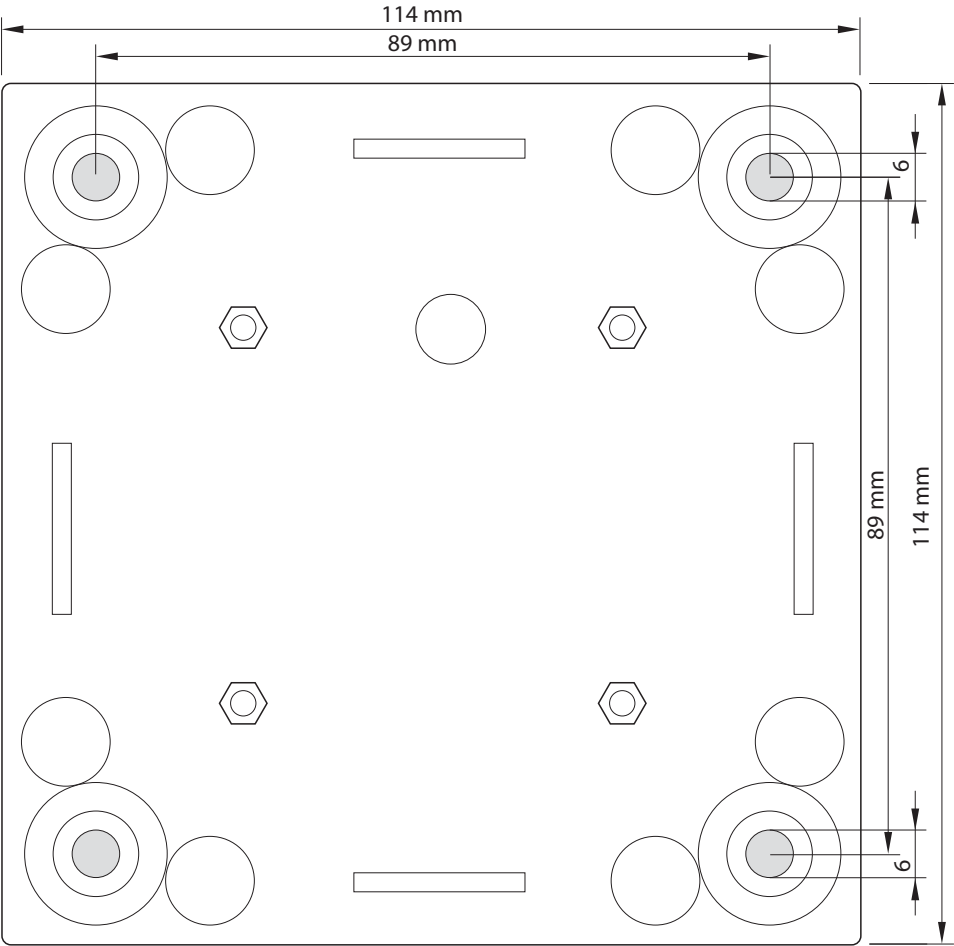
Terminal assignment



Standard assignment

Terminal	Assignment	Description
X 12	Relay 1	Door 1
X 21	Reader 1	Operating voltage for reader
X 15	10-28 V DC	Input voltage for GCDU 100
X 18	Reader 1 data	Data RS 485 (HOST DATA)

Dimensioned drawing for Door Unit GCDU 100 and GCDU 200, Master Unit GCMU 200, Master Unit and Door Unit GCMU 200



Scale 1 : 1

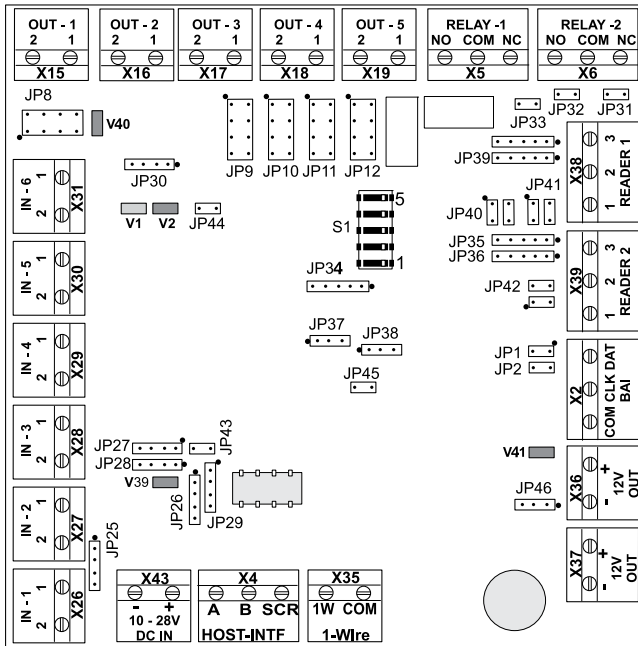
Note: Copy can be used as a drilling template.

GEZE Door Unit GCDU 200

Technical data Interface

Reader	1 x RS 485 (max. 1200 m)
Controller	RS 485 (max. 1200 m from the Master Unit to all the connected Door Units)
I/O	5 outputs (OC), 2 relays, 2 reader connection, 6 inputs
Voltage range DC	In 10–28 V DC
	Out 1 x 12 V DC

Terminal assignment



DIP switch (S1)

1	2	3	4	5	corresponds in decimal to
OFF	OFF	OFF	OFF	OFF	0
ON	OFF	OFF	OFF	OFF	1
OFF	ON	OFF	OFF	OFF	2
ON	ON	OFF	OFF	OFF	3
OFF	OFF	ON	OFF	OFF	4

Door Unit standard assignment of the inputs and outputs

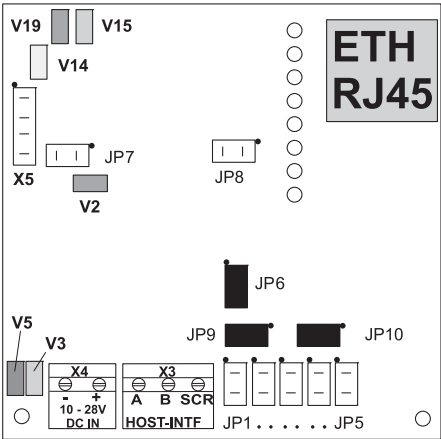
Terminal	Assignment	Description
X38	Reader 1	
X38/1	RS 485-shield	RS 485 for reader address 0–3
X38/2	RS 485-B	
X38/3	RS 485-A	
X39	Reader 2	
X39/1	RS 485-shield	RS 485 for reader address 0–3
X39/2	RS 485-B	
X39/3	RS 485-A	
X2	Internally assigned	
X36	Reader 2	Voltage reader 2
X37	Reader 1	Voltage reader 1
X35	Internally assigned	
X4	Host connection to Master Unit	
X43	Power supply extension DC	
X15	OUT 1	Door 1 is open
X16	OUT 2	Door 2 ist offen
X17	OUT 3	Door 1 alarm max. opening time
X18	OUT 4	Door 2 alarm max. opening time
X19	OUT 5	Not used
X5	Relay 1	Door 1
X6	Relay 2	Door 2
X26	IN 1	Door 1 door opener (NO) / (unlock door, e.g. intercom)
X27	IN 2	Door 1 door frame contact (NC)
X28	IN 3	Door 1 door opener (NO) / (block door or handle contact)
X29	IN 4	Door 2 door opener (NO) / (unlock door, e.g. intercom)
X30	IN 5	Door 2 door frame contact (NC)
X31	IN 6	Door 2 door opener (NO) / (block door or handle contact)

LED status display

LED	Status	Description
V1/green	Host connection status	Flashes slowly = Offline to host Flashes rapidly = Online to host
V2/red	Alarm Unit connection status	Flashes = Alarm Unit online
V39	Not assigned	
V40/red	5 V DC voltage	Lights up = Internal 5 V DC voltage OK
V41/red	Reader voltage	Lights up = 12 V DC reader voltage OK

GEZE Master Unit
GCMU 200

Terminal assignment



HOST RS 485

Terminal	Assignment	Description
X3	RS 485-A	RS 485 connection to Door Unit 1–4
X3	RS 485-B	RS 485 connection to Door Unit 1–4
X3	RS 485-shield	Optional

Power supply

Terminal	Assignment	Description
X4	(-) Minus	Direct voltage input
X4	(+) Plus	Master Unit 10–28 V DC

LED status display

LED	Status	Description
V2	RS 485	Flashes when the software sends data via RS 485 to X3
V3	Application	Lights up when the software is installed Flashes when the software is running (1 second) Flashes when CMOS SRAM is formatted (1/10 seconds) Off when the software starts or is loading
V5	Voltage	Lights up when 10–28 V DC is applied to X4
V14	ETH	Lights up at Fast Ethernet (100 MBit/s) Off at 10-MBit Ethernet
V15	ETH	Lights up when the Ethernet connection is recognised physically Off when no Ethernet connection is recognised physically
V19	ETH	Flashes when Ethernet data are received

GEZE Finger Print GCFP 401

Terminal assignment

Cable assignment

Connection	Cable colour	Assignment
Pair 1	Black	GND
	Red	Voltage 10–28 V DC
Pair 2	Black	Free
	Brown	Free
Pair 3	Black	Data „B“
	Yellow	Data „A“
Pair 4	Black	Free
	Blue	Free
Pair 5	Black	Free
	Green	Sabotage
Single	White	Free
Single	Shield	Shield

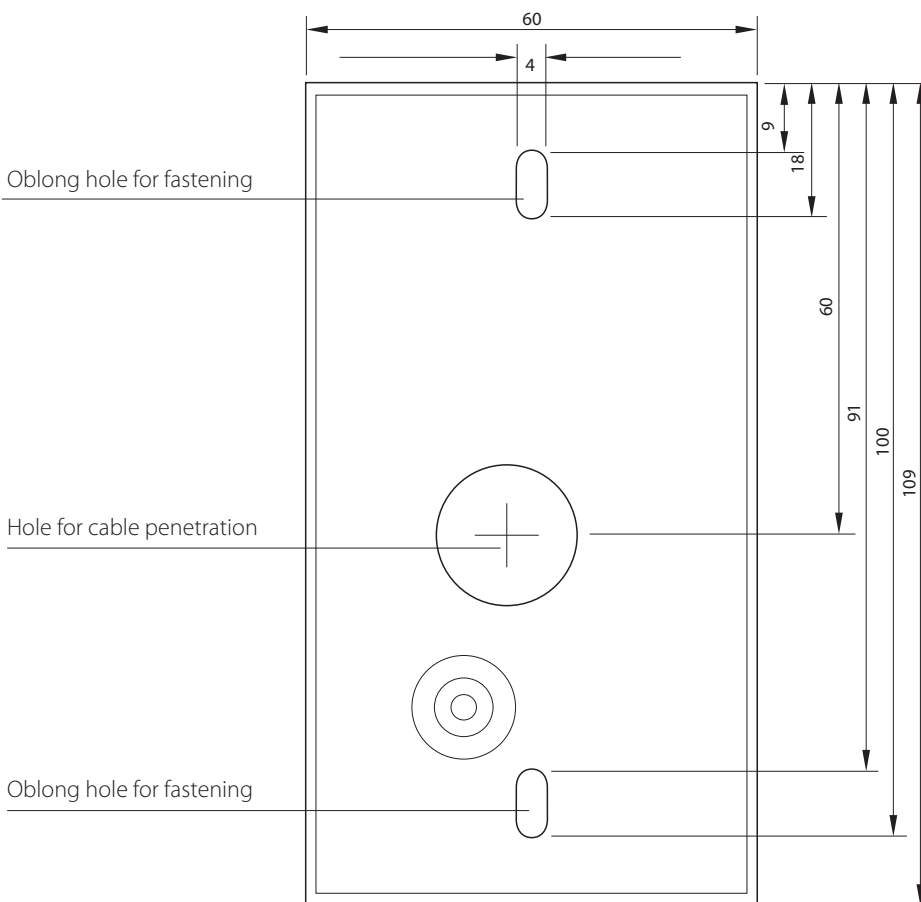
Configuration

- Optical finger print (biometrics sensor)
- 12-digit keyboard with switchable lightning
- Buzzer
- 4 red and 4 green LEDs, can be switched individually
- 3 Opto-inputs
- RS 485 interface
- Housing made of plastic, base plate made of galvanised sheeting (wall mounting)

Connection

- One moulded connecting cable with 11 conductors, stripped and tin-plated at the end
Length of data line approx. 30 cm
- Sabotage line also for monitoring the data line

Dimensioned drawing for GEZE Finger Print GCFP 401



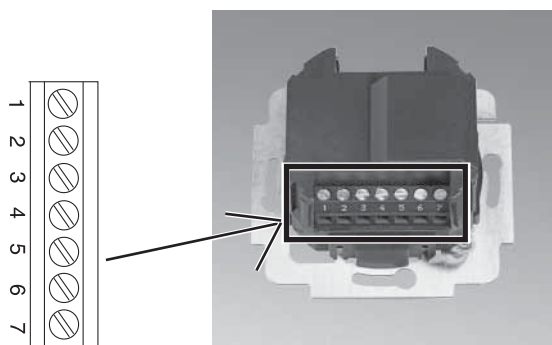
Scale 1 : 1

Note: Copy can be used as a drilling template.

GEZE SecuLogic access control systems

GEZE RFID-Reader GCRR 200

Terminal assignment RS 485 interface variant

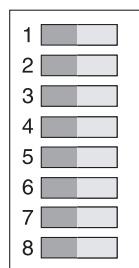


Supply terminal ST1

Assignment	Description
Pin 1	Input 1
Pin 2	Input 2
Pin 3	Data „B“
Pin 4	Data „A“
Pin 5	Internally assigned
Pin 6	GND
Pin 7	+Ub 8–30 V DC

DIP switch

DIP switch
OFF/ON



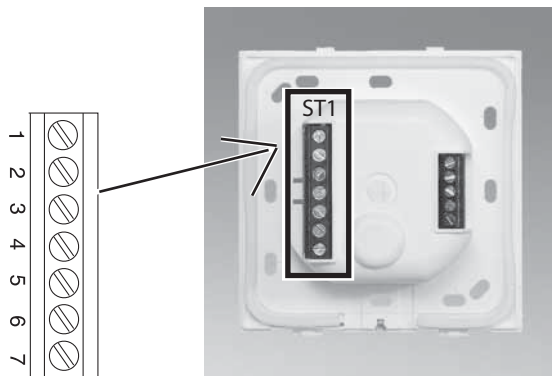
DIP switch								corresponds in decimal to
1	2	3	4	5	6	7	8	
OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	0
ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF	1
OFF	ON	OFF	OFF	OFF	OFF	OFF	OFF	2
ON	ON	OFF	OFF	OFF	OFF	OFF	OFF	3
OFF	OFF	ON	OFF	OFF	OFF	OFF	OFF	4

LED status display

DIP switch	RS 485	Setting of the reader address
S1	OFF	Standard all OFF
S2	OFF	Standard all OFF
S3	OFF	Standard all OFF
S4	OFF	Standard all OFF
S5	OFF	Standard all OFF
S6	OFF	Has to be set fixed on OFF (internal function) (standard)
S7	OFF	No bus terminating resistor
	ON	120 Ω bus terminating resistor (standard)
S8	OFF	Normal operation (standard)
	ON	Voltage for the reader PCB (front module) switched off, for removing/plugging the connecting cable when operating voltage is applied to the interface

GEZE RFID-Reader GCVR 200/GCVR 200T

Terminal assignment RS 485 interface variant

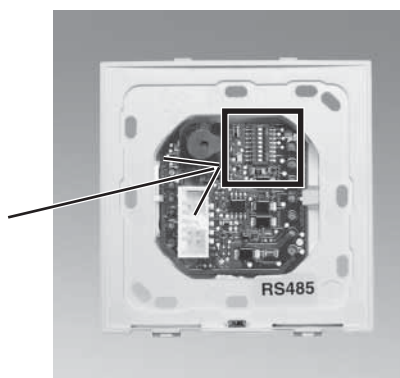
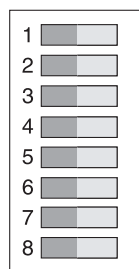


Supply terminal ST1

Assignment	Description
Pin 1	Input 1
Pin 2	Input 2
Pin 3	Data „B“
Pin 4	Data „A“
Pin 5	Internally assigned
Pin 6	GND
Pin 7	+Ub 8–30 V DC

DIP switch

DIP switch OFF/ON



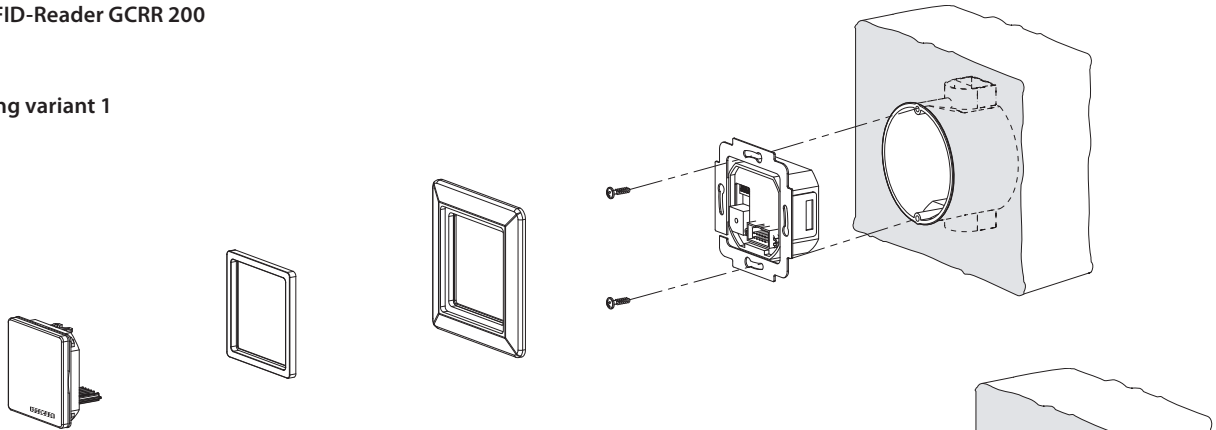
DIP switch								corresponds in decimal to
1	2	3	4	5	6	7	8	
OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	0
ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF	1
OFF	ON	OFF	OFF	OFF	OFF	OFF	OFF	2
ON	ON	OFF	OFF	OFF	OFF	OFF	OFF	3
OFF	OFF	ON	OFF	OFF	OFF	OFF	OFF	4

LED status display

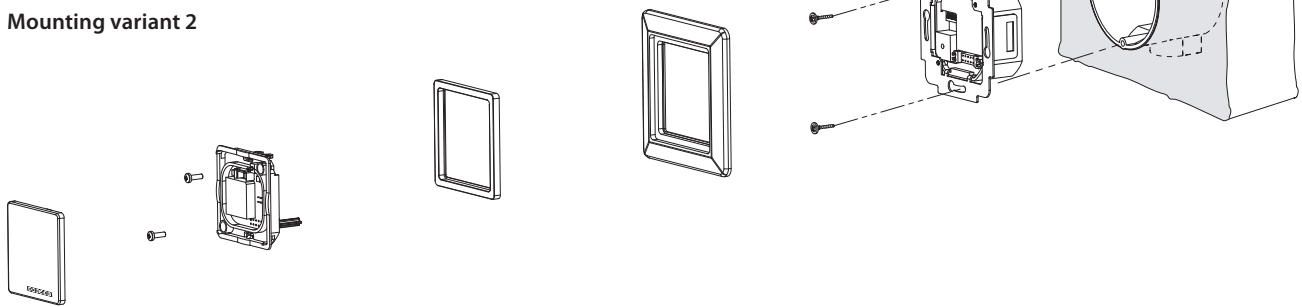
DIP switch	RS 485	Setting of the reader address
S1	OFF	Standard all OFF
S2	OFF	Standard all OFF
S3	OFF	Standard all OFF
S4	OFF	Standard all OFF
S5	OFF	Standard all OFF
S6	OFF	Has to be set fixed on OFF (internal function) (standard)
S7	OFF	No bus terminating resistor
	ON	120 Ω bus terminating resistor (standard)
	OFF	Normal operation (standard)
S8	ON	Voltage for the reader PCB (front module) switched off, for removing/plugging the connecting cable when operating voltage is applied to the interface

GEZE RFID-Reader GCRR 200

Mounting variant 1

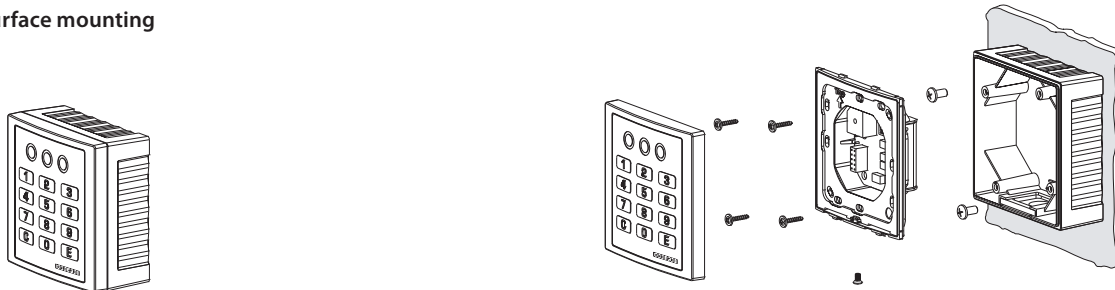


Mounting variant 2

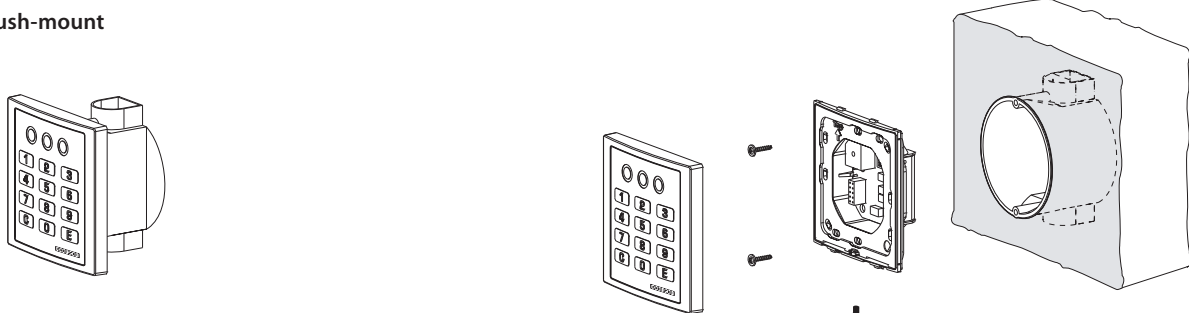


GEZE RFID-Reader GCVR 200/GCVR 200T

Surface mounting



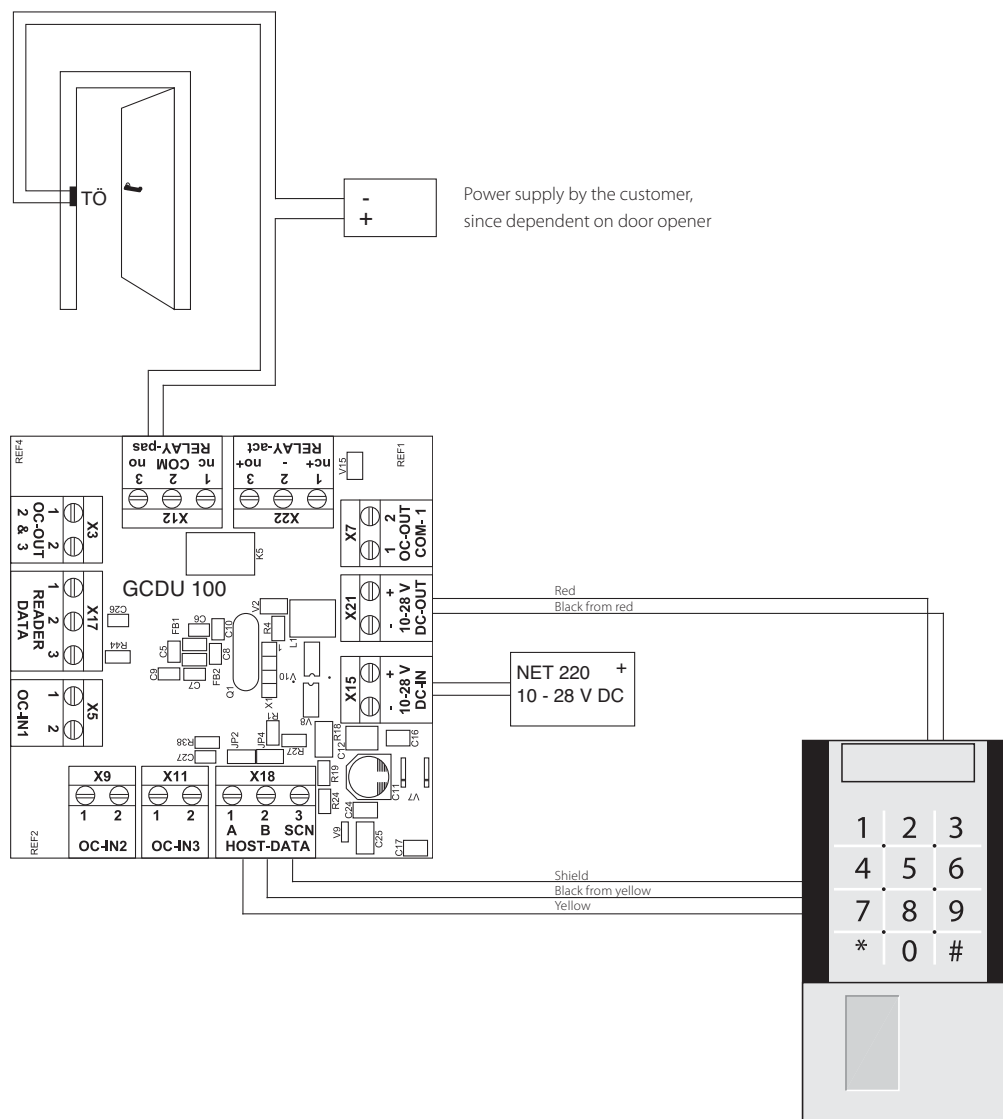
Flush-mount



Detailed installation manuals are available on request

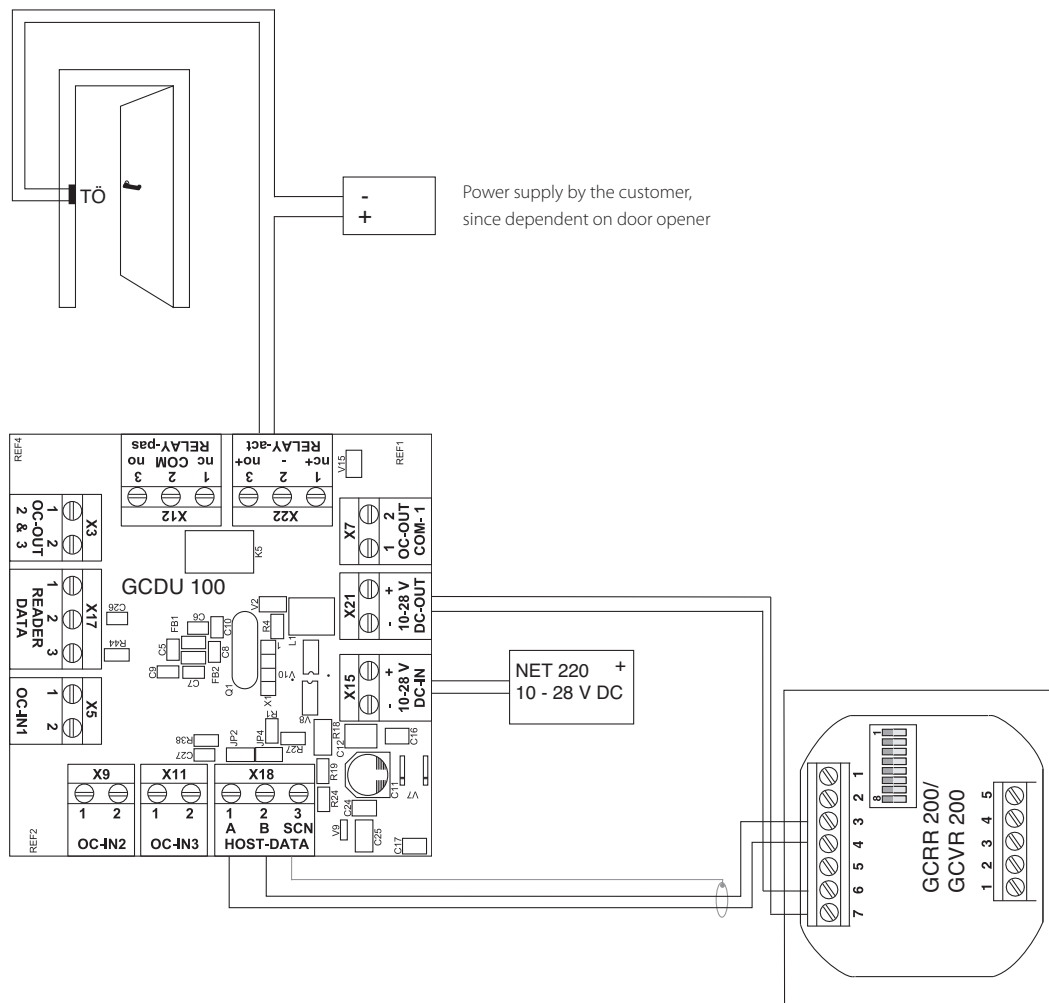
Cable plan for one door:

Combination 1 Finger Print GCFP 401 and GEZE Single Door Unit GCDU 100



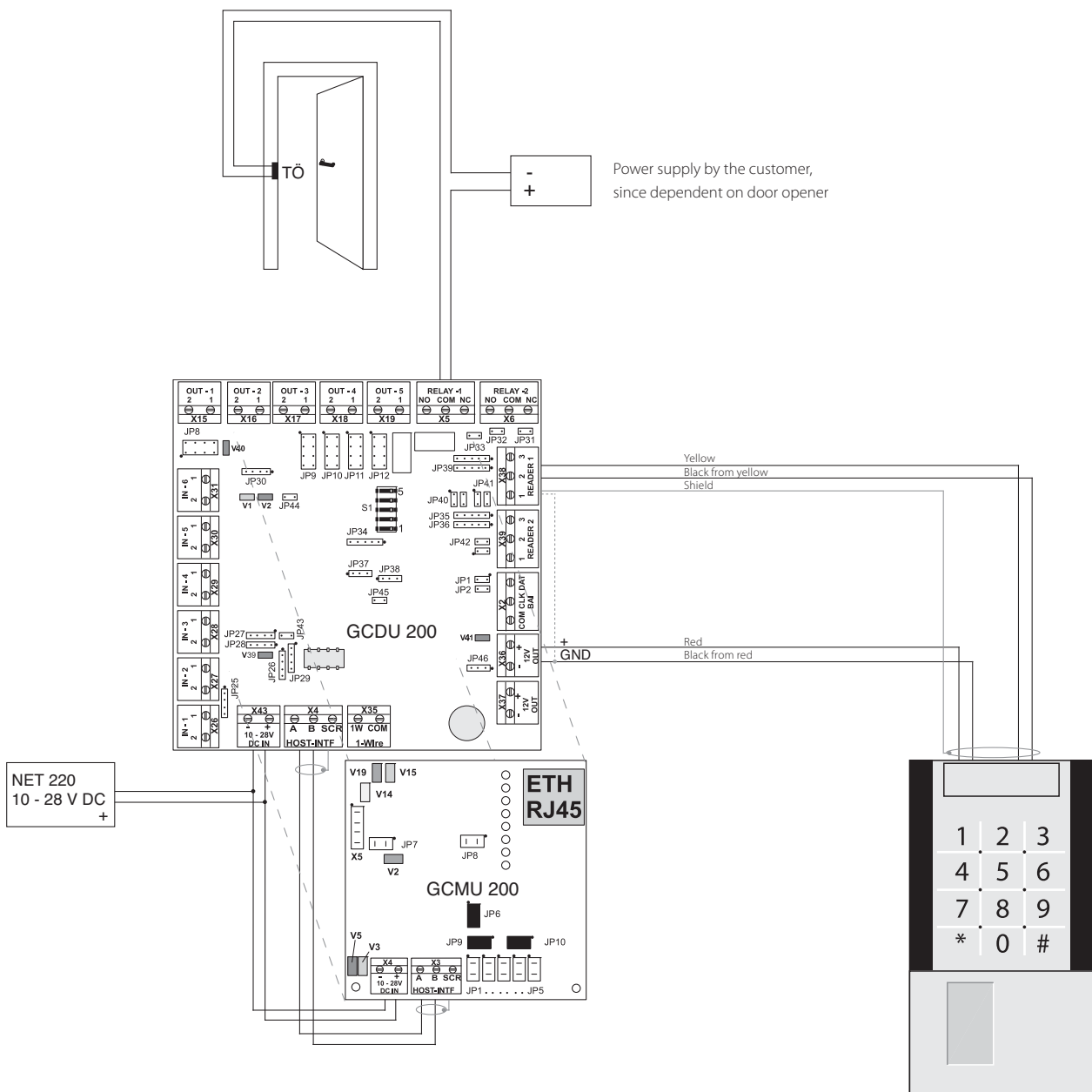
Cable plan for one door:

Combination 1 RFID-Reader GCRR 200 or GCVR 200(T) and GEZE Single Door Unit GCDU 100



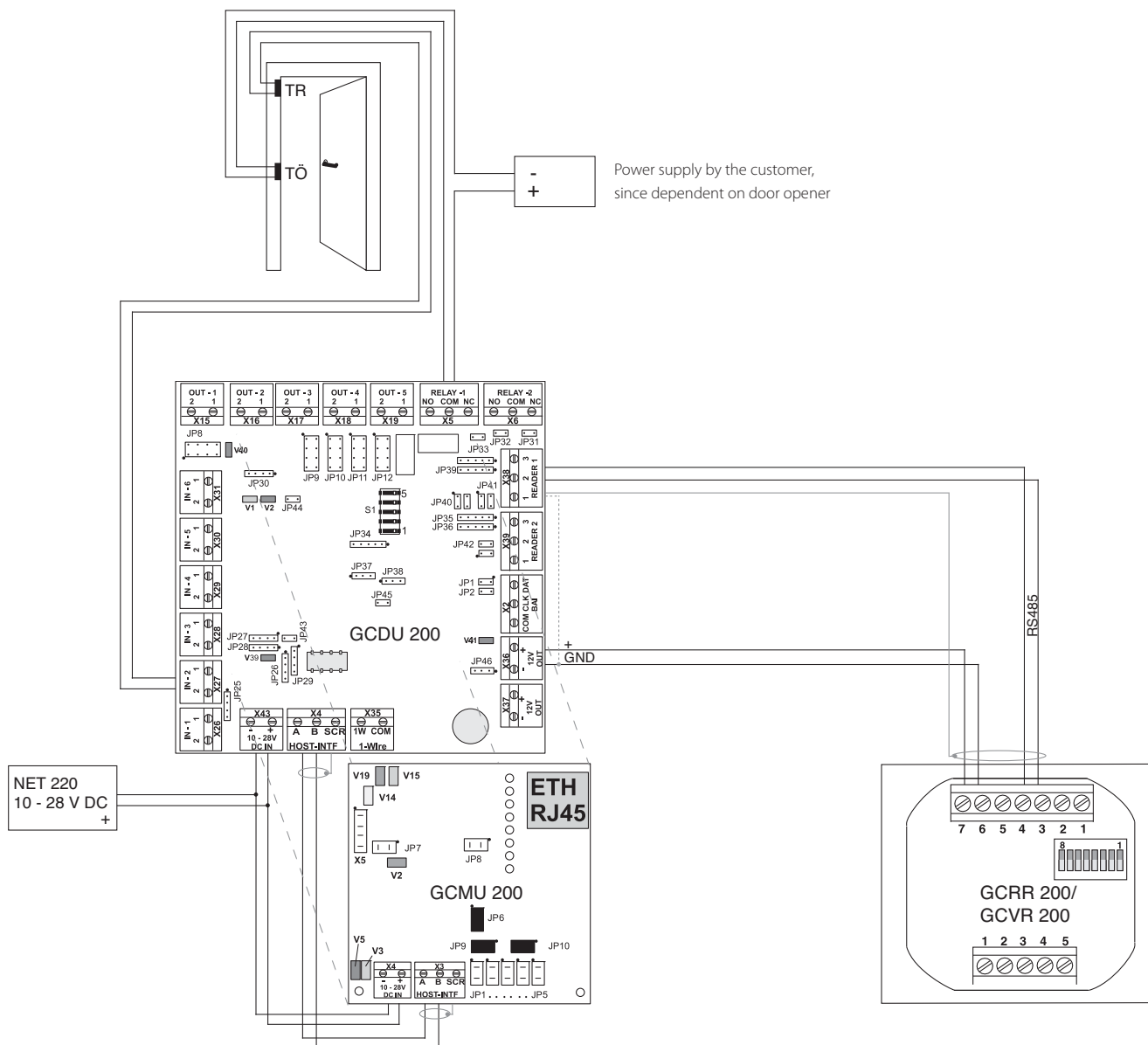
Cable plan for one door:

Combination 1 Finger Print GCFP 401, GEZE Door Unit GCDU 200 and GEZE Master Unit GCMU 200



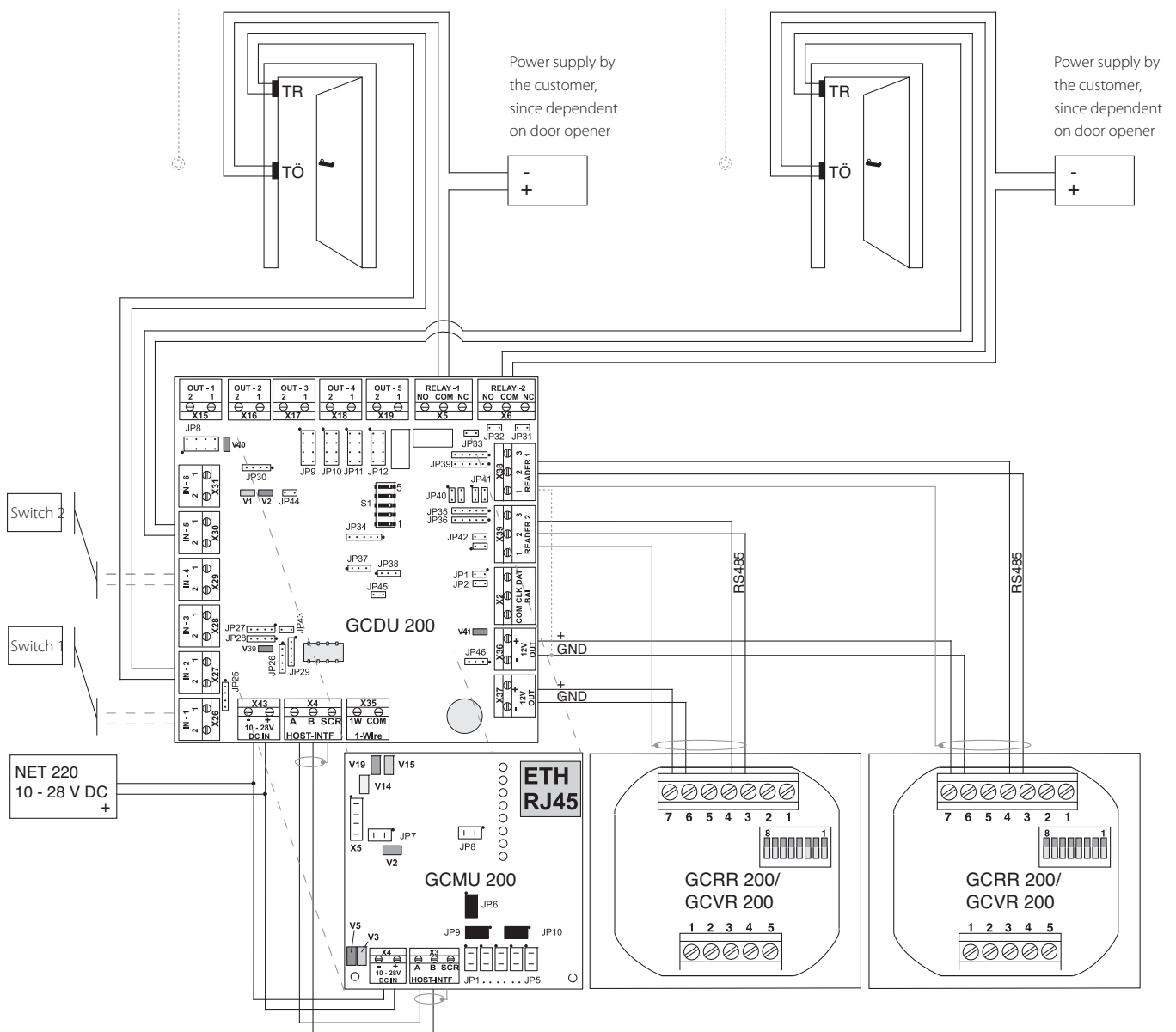
Cable plan for one door:

Combination 1 RFID-Reader GCRR 200 or GCVR 200(T), GEZE Door Unit GCDU 200 and GEZE Master Unit GCMU 200



Cable plan for two doors:

Combination 2 RFID-Reader GCRR 200 or GCVR 200(T), GEZE Door Unit GCDU 200 and GEZE Master Unit GCMU 200



Note: Please observe tables for addressing.

Cable specification

How to lay cables correctly

Some advice so that you can lay the required cables safely and exactly:

▪ Interference-free

Do not lay the data lines parallel to high-voltage lines (electro-magnetic interferences)! If this cannot be avoided, lay the lines in closed steel tubes and with at least 1 m space between them. It is also helpful to lay the data line and the voltage supply separately.

▪ The right cable

The reading devices and Door Units are configured for RS 485.

RS 485

Shielded cable with twisted-pair wires. Maximum cable length 1200 m

- 4x2 litz conductors 0,25 mm² (AWG24)
- J-Y(ST)Y 4x2x0,6
- CAT 5 ... 7 STP (Shielded Twisted Pair)

▪ Length of cable routes

A large distance when cables are laid (above approx. 100 m) requires a correspondingly large cable cross-section. In this case supplying the power via a local power source or a separate power cable can be the better alternative. In addition the voltage supply should amount to 24 V in view of the voltage drop.

- Two calculation examples

Calculation equation: voltage drop = loop resistance x line length (in km) x current

EXAMPLE 1

Wire cross-section (AWG22)	Line 0,34 mm ²
Loop resistance	115 Ω/km
Current (of the GCFP 401 at 12 V)	0,2 A
Line length	150 m

$$\text{Voltage drop} = 115 \, \Omega/\text{km} \times 0,15 \, \text{km} \times 0,2 \, \text{A}$$

The voltage drop amounts to 3,45 V.

The input voltage should amount to at least 15 V here.

EXAMPLE 2

Wire cross-section (AWG24)	Line 0,25 mm ²
Loop resistance	180 Ω/km
Current (of the GCFP 401 at 12 V)	0,2 A
Line length	150 m

$$\text{Voltage drop} = 180 \, \Omega/\text{km} \times 0,15 \, \text{km} \times 0,2 \, \text{A}$$

The voltage drop amounts to 5,4 V.

The input voltage should amount to at least 18 V here.

Door opening on the floating contact GCDU 200 or GCMDU 200

- As a door opener, we recommend a DC-door opener at a voltage of 12V or 24V and integrated freewheeling diode.
- If there is no freewheeling diode be integrated, close to the DC-door opener a diode type 1N4007 or similar must be appropriate. Please note that this door must be provided with a separate voltage.
- The cable specification is to select the current load of the door opener.

Safety and responsibility

The GEZE SecuLogic access control system has been conceived according to the state of the art in technology and acknowledged safety regulations. Nevertheless dangers can arise during its mounting and dangers. Therefor observe the following information:

Fundamental safety precautions

- Mounting, commissioning and maintenance may only be carried out by a qualified electrician or by a qualified person trained by GEZE.
- Use only GEZE original parts or accessories approved by GEZE.
- GEZE shall not be liable for injuries or damage resulting from unauthorized modification of the equipment.
- Input-end protective measures lie in the responsibility of the customer.
- The standards of the respective countries have to be observed when laying lines.

Intended use

The GEZE SecuLogic access control system is designed for networking GEZE products. Products of other companies may only be included after consulting GEZE.

The connection of products that have not been approved expressly by GEZE for networking is contrary to the intended use.

Terms and definitions

▪ CE mark of conformity

Die CE mark of conformity is mandatory in accordance with EU law for certain products relating to product safety. By applying the CE mark of conformity the manufacturer confirms that the product conforms to the applicable European directives.

▪ CSA

The certification in accordance with the Canadian Standards Association (CSA) proves that, amongst others, electronic and electrical components have been evaluated (tested) in accordance with a strict formal procedure and thus conform to the common safety and performance standards in the United States and Canada and are approved there.

Abbreviations and acronyms

AP	Surface-mounting version
DU	Door Unit
FTÖ	Escape door opener
GC	GEZE
MU	Master Unit
PIN	Personal Identification Number
TÖ	Door opener
TR	Door frame contact
TSA	Door locking system
TZ	Door control unit
UP	Flush-mount version

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