



ECdrive / ECdrive-FR

Automatic sliding door drive
ECdrive-FR for use on escape and rescue routes



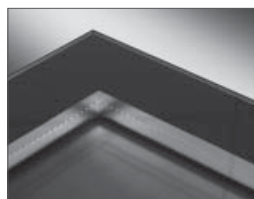
Planning document

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DOOR TECHNOLOGY



GLASS SYSTEMS



AUTOMATIC DOOR SYSTEMS



RWA AND WINDOW TECHNOLOGY



SAFETY TECHNOLOGY

Fields of application and product features

Fields of application

GEZE ECdrive sliding door systems are used as automatic doors with horizontally sliding door leaves (single- or double-leaf doors) in low and high usage areas; e.g.

- ▶ Office buildings
- ▶ Public buildings
- ▶ Chemist's premises
- ▶ Banks
- ▶ Hotels and restaurants
- ▶ Administration buildings
- ▶ Hospitals
- ▶ Care homes for the elderly or disabled
- ▶ Airports and railway stations
- ▶ Car show rooms
- ▶ Industrial facilities
- ▶ Draught lobbies

The automatic sliding door system GEZE ECdrive-FR is developed especially for installation on escape and rescue routes, where safety is of paramount importance.

Product features

- ▶ High quality materials and the latest in control technology ensure high performance in your destined area of application
- ▶ Attractive appearance owing to slanted GEZE design cover
- ▶ Small number of profiles and modular construction
 - allows fast production of all customer-specific opening widths
 - reduces the storage costs
 - allows pre-assembly of the mechanic drive components
 - reduces installation times on site

Product features (ECdrive-FR only)

- ▶ Dual-motor technology with maintenance-free motors
- ▶ The ECdrive-FR has been approved for use in escape routes (AutSchR). In addition, the sliding door drive has been tested and certified in accordance to DIN 18650.

GEZE special FR-variants:

- ▶ **GEZE ECdrive FR-RWS**
(approved by TÜV) constantly self-supervised system which immediately goes into a safe condition as soon as an error is registered somewhere
- ▶ **GEZE ECdrive FR-LL**
shop closing time (one way)
highest protection against unauthorised opening from outside
- ▶ **GEZE ECdrive FR-DUO**
two escape directions

System description

The GEZE ECdrive / ECdrive-FR is a type-tested sliding door system

- ▶ suited for internal and external doors
- ▶ compact design of drive
- ▶ all-aluminium system
- ▶ available in two versions:
 - double-leaf
 - single-leaf
- ▶ left hand resp. right hand closing
- ▶ for installation on escape and rescue routes (ECdrive-FR)

Types of door leaves

- ▶ Slim-framed profile system for ISO (insulating glass) as well as ESG (toughened safety glass)
- ▶ Doors of timber, UPVC/frame doors

Drive

- ▶ Dimensions of drive (high x deep) 120/150 x 175 mm
- ▶ Extruded cover profiles in all RAL colours, special profiles of anodised aluminium
- ▶ Maintenance-free DC motor
- ▶ Extremely quiet, enclosed running gear
- ▶ Power transmission via thooted belts
- ▶ The leaf weight is centrally distributed to the track profile via two double roller carriage with precision ball bearings
- ▶ Mains switch: Each automatic sliding door has to be equipped with an all-pole mains switch is secured against inadvertent or unauthorised operation. Alternatively, the switch, integrated into the drive, can also be used as a mains switch.

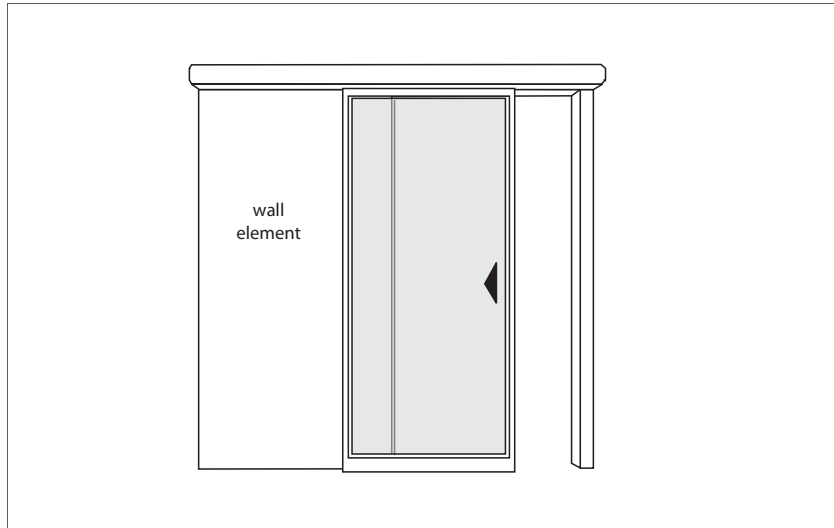


Fig. 04-1 · single-leaf right hand closing, view from inside

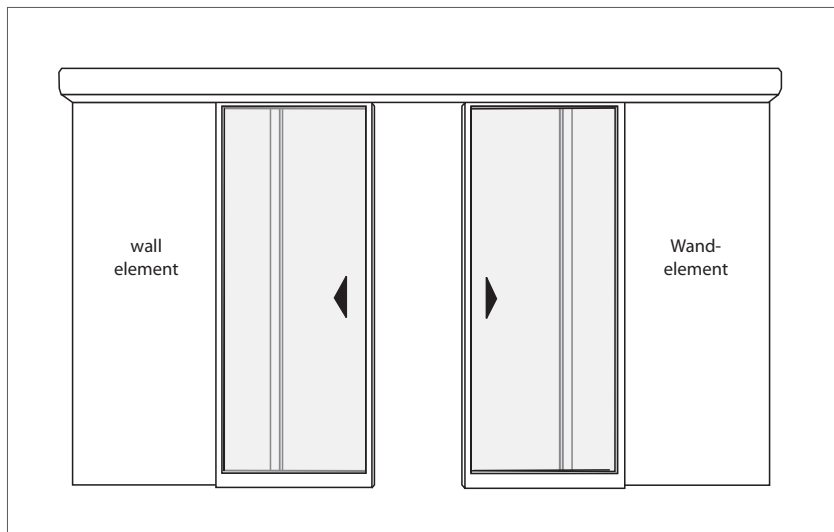


Fig. 04-2 · double-leaf, view from inside

Drive (only type ECdrive-FR)

- ▶ Duplicate processing system by means of dual-motor technology/ accumulator in connection with a redundant control
- ▶ Lockable programme switch: The programme switch may only be operated by authorized persons. For that reason a key-operated switch is absolutely necessary. The operating mode selected must be clearly identifiable.
- ▶ Self-monitoring movement detector (redundant): The functionality must be controlled constantly. If an error is indicated the door moves into the open position (repair required).
- ▶ Information for the locking of emergency exit doors (mode of operation "NIGHT"): Automatic sliding doors for use on escape routes may be locked, if the doors are not required as emergency exit doors for that specific period of time. This is normally the case if there are no more people in the building, or if another escape route is indicated.

Control

- ▶ Fully digital control via 16 Bit high-performance microprocessor
- ▶ All adjustments of the system as well as the indication of the function, fault and maintenance parameters via programme switch
- ▶ Modes of operation:
 - Automatic
 - Permanently open
 - Shop closing time (one way)
 - Night
- ▶ The reduced opening width is infinitely variable in the self-learning mode
- ▶ Display of statistical data via programme switch (number of movements, service interval)
- ▶ Self-learning door control
- ▶ Hold-open time can be automatically adapted to access frequency
- ▶ Connection to fire alarm system
- ▶ Electromechanical locking with optional alarm contact for alarm systems
- ▶ Opening and closing speeds are individually adjustable
- ▶ Protection against dangers by most modern sensor technology

Actuation elements

Only type-tested movement detectors must be connected in escape direction. Apart from that, all actuation elements can be connected, e.g.:

- ▶ Radar movement detectors, where detection is independent of temperature
- ▶ Infrared movement detectors
- ▶ (Key-operated) buttons/switches
- ▶ Code card readers

Options

- ▶ Connection to fire alarm system (permanently potential-free contact, door opens from any mode of operation and stays open)
- ▶ Link to burglar alarm
- ▶ Chemist's late night opening setting
- ▶ Tamper contact for external key-operated switch
- ▶ Fault warning
- ▶ Standard locking
- ▶ Floor spring at bottom door shoe
- ▶ Fixed panel safeguarding via sensors
- ▶ Switching over to other modes of operation by means of timer
Hint: conditioned switch-over for ECdrive-FR system (only between the modes "Shop closing time", "Automatic" and "Permanently open")

Options (not for ECdrive-FR)

- ▶ Draught lobby or interlocking function can be controlled with only 1 programme switch for 2 installations
- ▶ Emergency locking

Safety functions

- ▶ Opening and closing forces limited to < 150 N
- ▶ Safety sensor with self-testing function
- ▶ Automatic reversing function with adjustable reversing pressure. The door opens automatically, if it meets an obstacle during closure.
- ▶ Manual emergency unlocking (standard) with unlocking pin at the drive; electric emergency unlocking (option)
- ▶ Battery pack to open and close the door in the case of power failure (no permanent operation)
- ▶ Integrated mains switch

Additionally for the ECdrive-FR version:

- ▶ Automatic opening of the door from the mode of operation "Automatic" and "Shop closing time" in the case of failure or emergency owing to a dual-motor technology in connection with a battery pack.

Technical characteristics		
	single-leaf version	double-leaf version
Door leaf weight	up to 120 kg	up to 2 x 120 kg
Opening width ECdrive (ECdrive-FR)	700 - 3000 mm (900 - 3000 mm)	900 - 3000 mm
Clear passage height	max. 3000 mm	
Hold-open time	0 - 60 s	
Opening speed	up to 0,7 m/s per leaf	
Closing speed	up to 0,5 m/s per leaf	
Mains connection	230 V AC +6% - 10% at 50 Hz or 60 Hz	
Enclosure rating	IP 20	
Power consumption	max. 300 VA	
TÜV approved	yes, according to DIN 18650	

Hint:

- ▶ The opening width and clear passage height stated above are standard dimensions. Special dimensions available on request.
- ▶ If the maximum opening width is combined with a large clear passage height, keep in mind that the maximum leaf weight must not exceed 120 kg. (standard ISO profile system = approx. 30 kg per m² leaf weight)
- ▶ For external installations with an opening width of more than 2000 mm, a continuous floor guide is recommended.

Technical functions			
		ECdrive	ECdrive-FR
Moving leaf	double-glazed safety glass, fine-framed toughened safety glass, fine-framed	■ ■	■ ■
Functions	Automatic Permanently open Shop closing time (one way) Night locking Chemist's late night opening setting	■ ■ ■ ■ ■	■ ■ ■ ■ ■
GEZE special functions for more comfort	Automatic DUO (FR-DUO) Shop closing time LOCKED (FR-LL) Night RWS (FR-RWS)		option option option
Bistabile toothed belt bolting device with manual hand unlocking		option	option
Emergency opening / closing (via accumulator)		■	■ (emergency opening)
Automatic reversing function		■	■
Force limited according to BGR 232 and DIN 18650 ≤ 150 N		■	■
24 V DC supply voltage for external appliances		■	■
Selectable error memory		■	■
Protection main closing edge via connectable sensor technology		■	■
Protection side closing edge via connectable sensor technology		■	■ to conditioned extent
Draught lobby / interlocking function		■	
Door status display OPEN / CLOSED		■	■

Installation variations

If the building is used by persons requiring a certain degree of protection in accordance with the building law, further protective measure than those mentioned below may become necessary. An exact definition of the protective measures is possible only by the safety analysis according to machine guideline and DIN 18650.

► **Wall fixing/installation into lintel without side element, double-leaf**

- without protective leaf ^{*)}
- with protective leaf ^{*)} for limited fitting space

► **Mounting at façade construction, double-leaf**

- with protective leaf ^{*)}

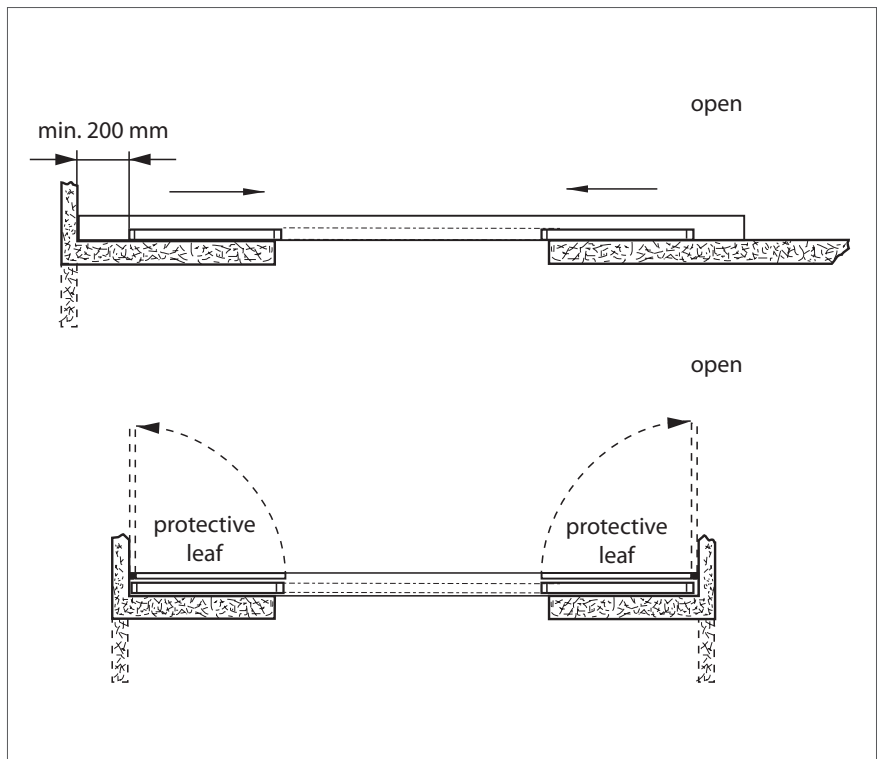


Fig. 8-1 · Wall fixing/installation into lintel, double-leaf version

Legend	
ÖW	opening width

^{*)} Protective and safety leaves are used only if the safety margins demanded according to DIN 18650 cannot be kept.

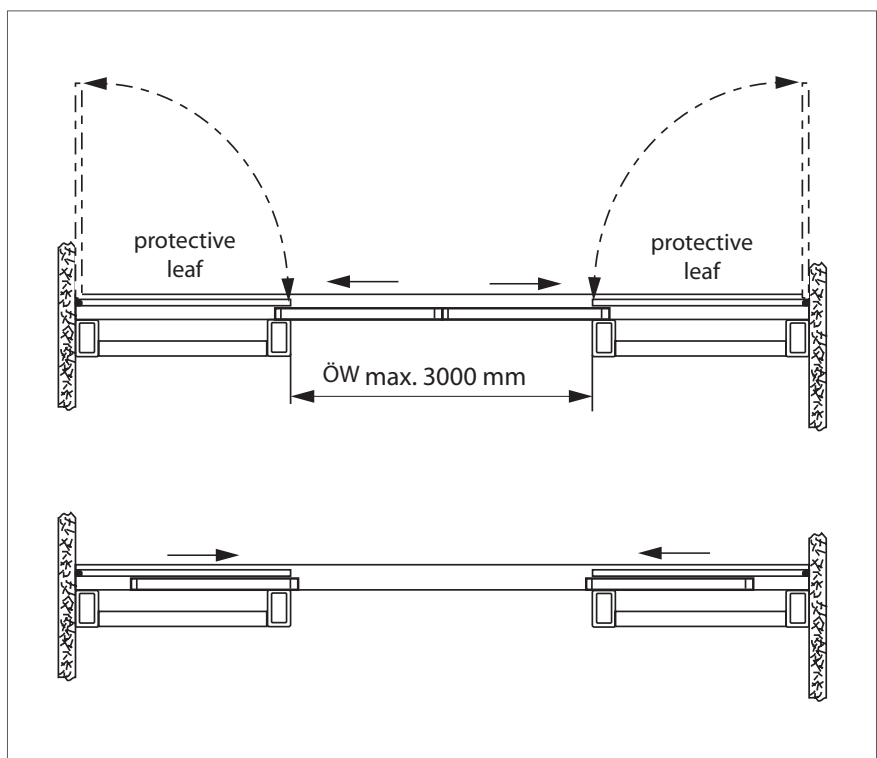


Fig. 8-2 · Façade construction installation, double-leaf version, with protective leaf

► **Mounting at façade construction,
double-leaf**

- with safety leaf^{*)}

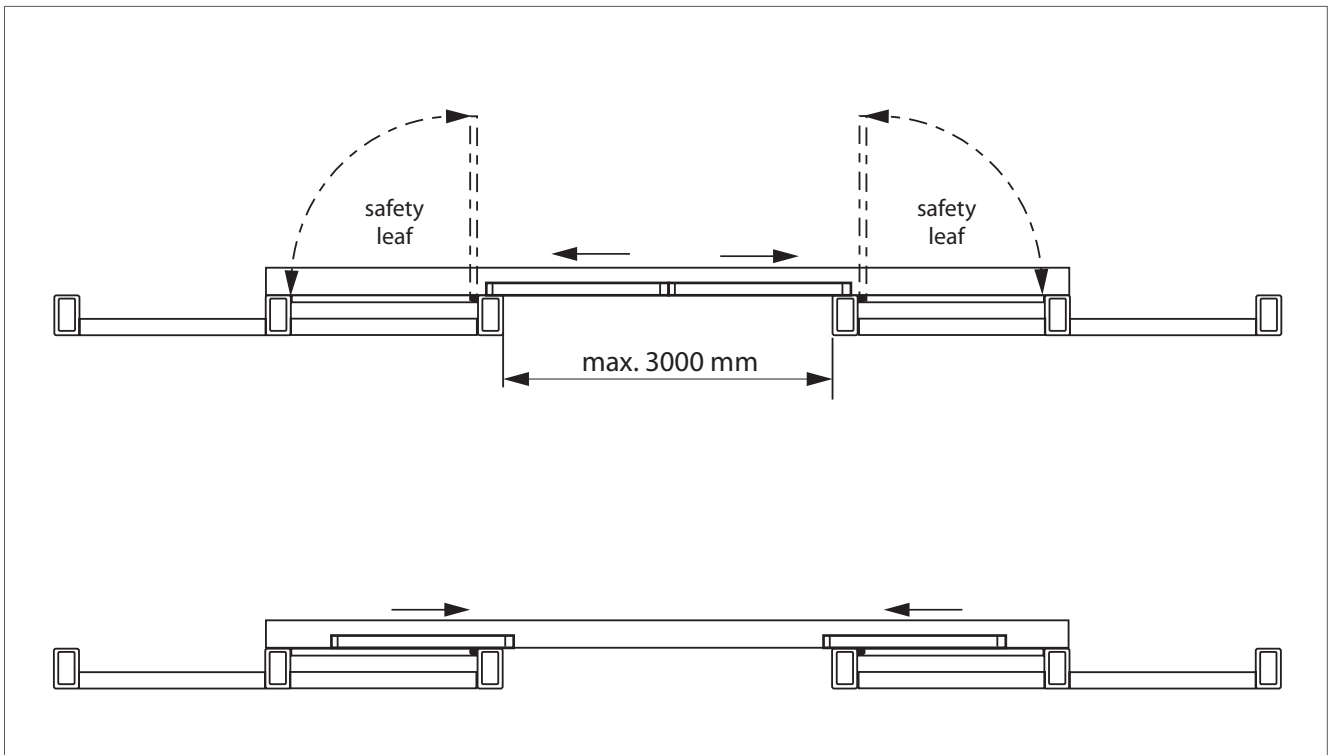




Fig. 9-1 · Façade construction installation, double-leaf version, with safety leaf

^{*)} Protective and safety leaves are used only if the safety margins demanded according to DIN 18650 cannot be kept.

Draught-proof systems

Draught-proof systems are used to avoid draught and to reduce the heat exchange. Only one door should be open.

Direction-recognizing radar movement detectors only trigger the door if persons move towards the door. Therefore the door closes earlier as soon as the person has entered.

Legend	
	with direction recognition
	without direction recognition

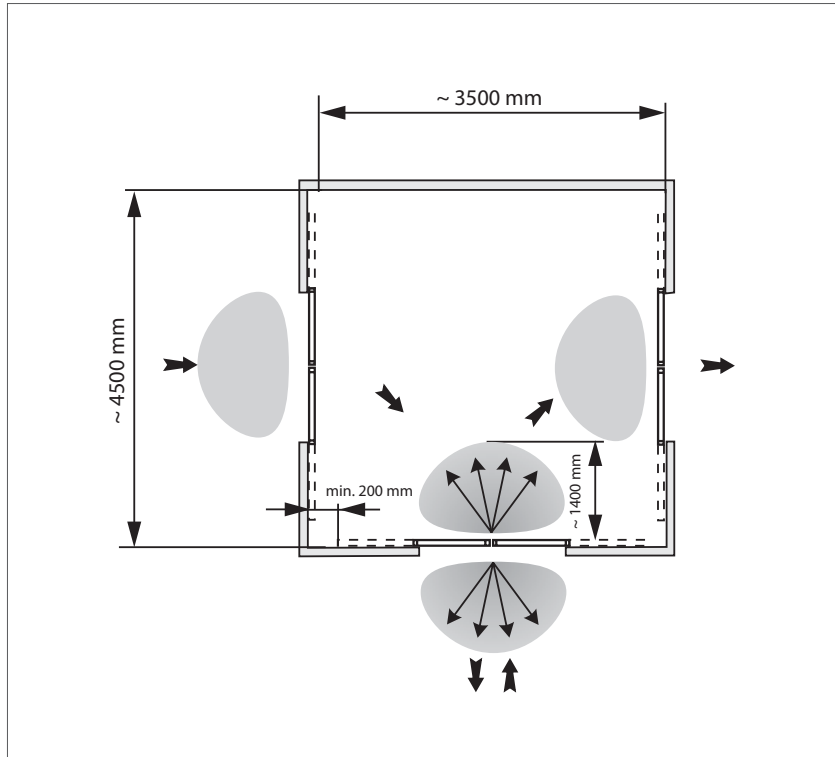


Fig. 10-1 · ECdrive draught-proof system, combination example 1

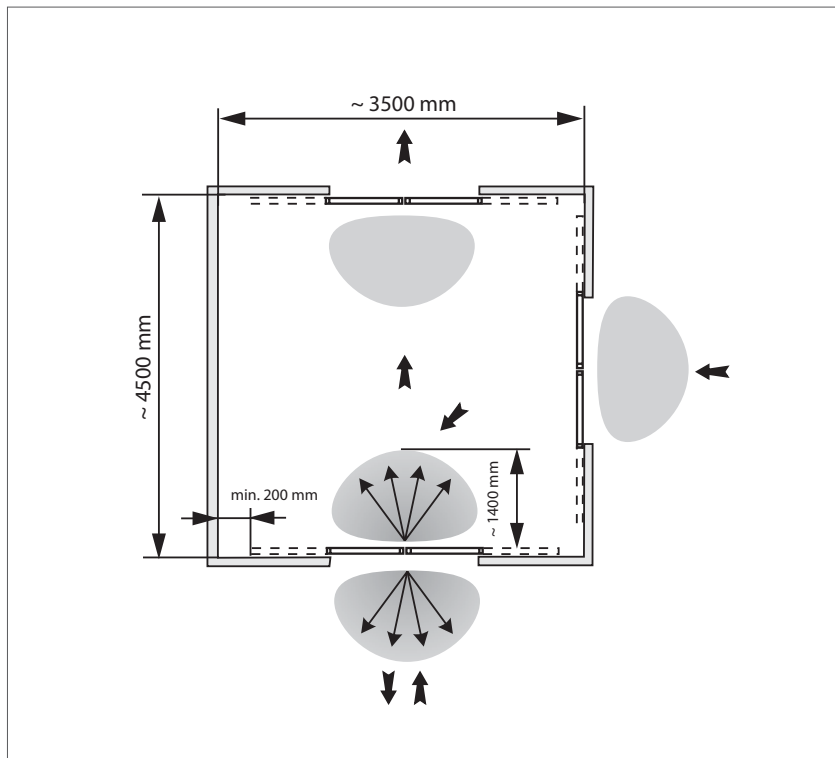


Fig. 10-2 · ECdrive draught-proof system, combination example 2

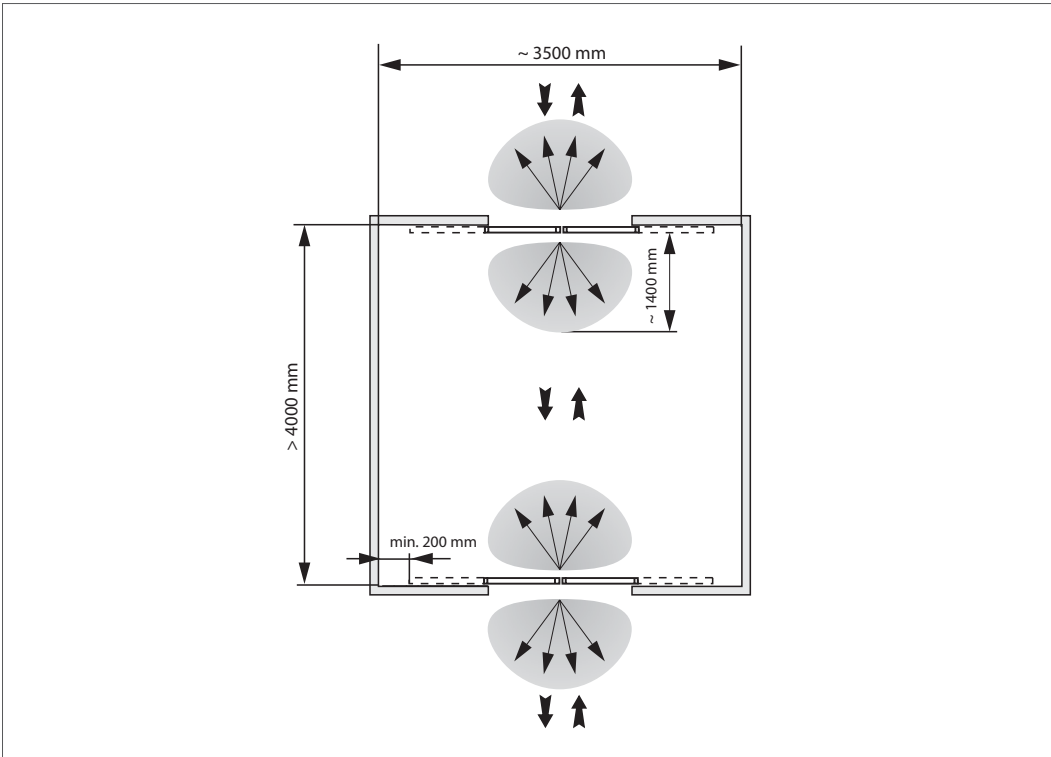


Fig. 11-1 · ECdrive draught-proof system, combination example 3

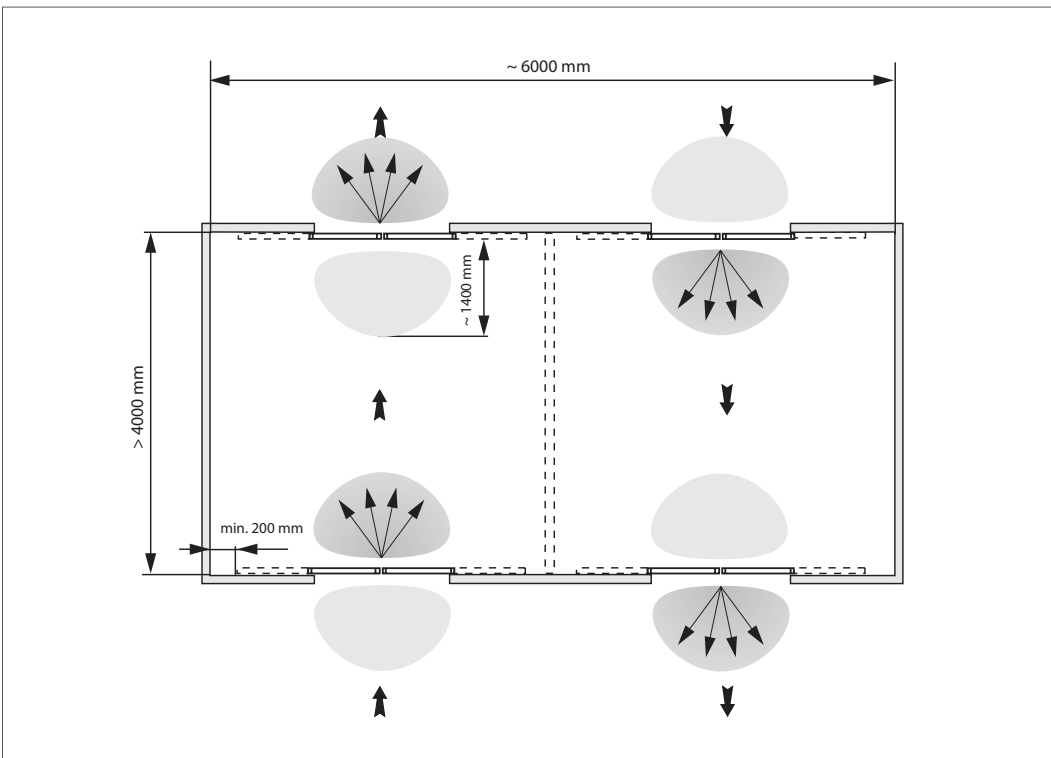
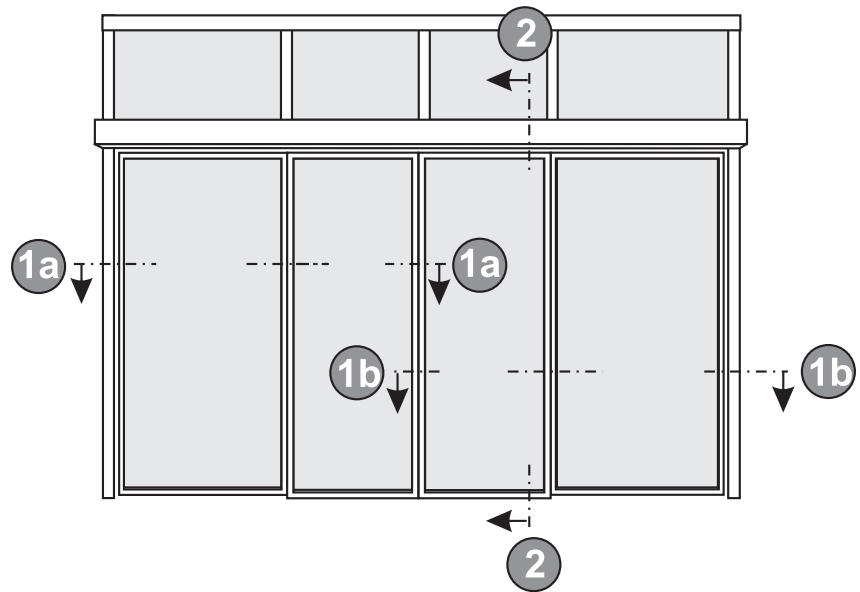


Fig. 11-2 · ECdrive draught-proof system, combination example 4

Horizontal and vertical sections, ISO glass

ECdrive / ECdrive-FR,
ISO double-glazed safety glass

Legend	
1a	ISO / façade construction
1b	ISO-profile system with 10 mm glass
2	Version 1: fixed floor guide
	Version 2: continuous floor guide
ÖW	Opening width
DH	Clear passage height
B	Total length of system (mm)



1a ISO / façade construction

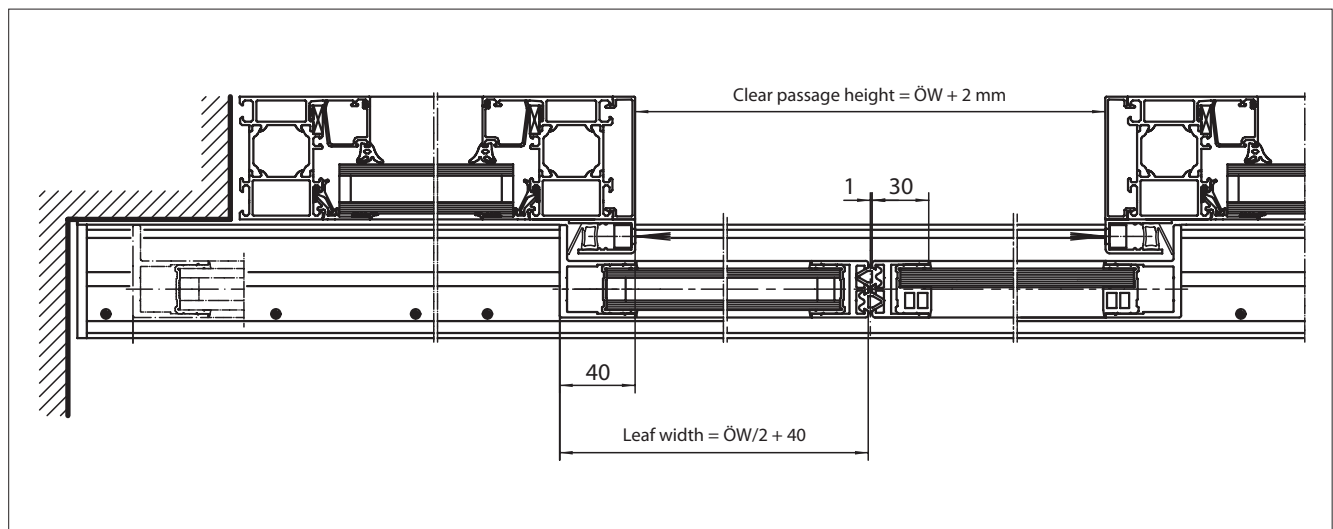


Fig. 12-1 · ISO / façade construction

1b ISO-profile system with 10 mm glass

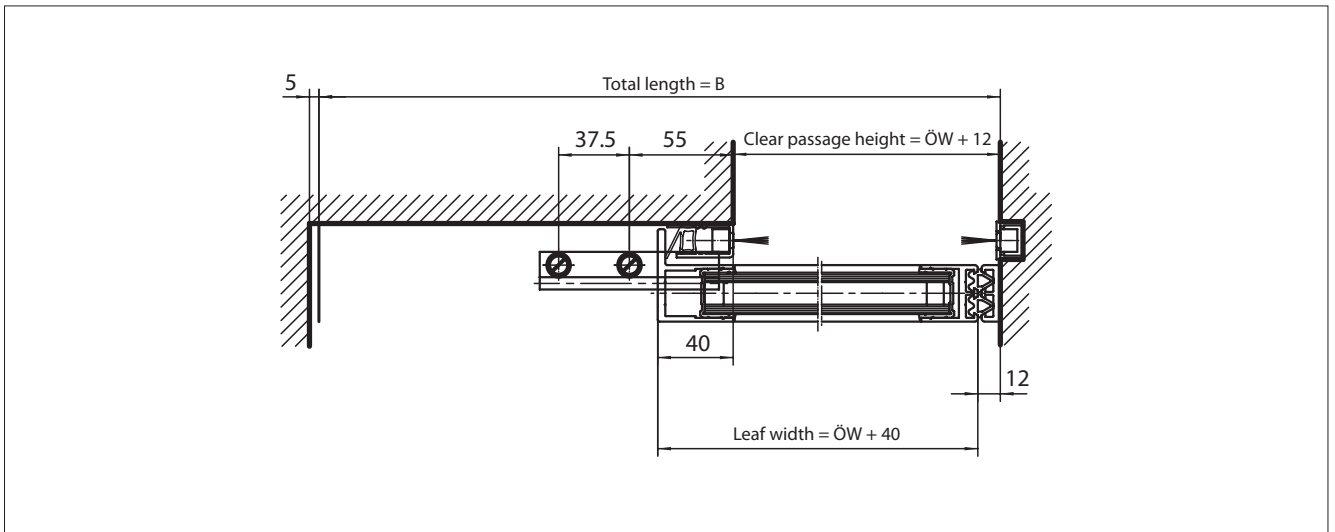


Fig. 13-1 · ISO-profile system with 2 x 5 mm glass

2 Version 1 (Fig. right):
Angle floor guide

Version 2:
Continuous floor guide

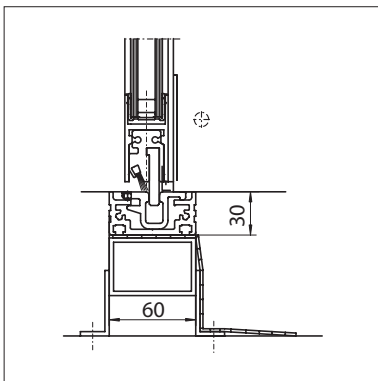


Fig. 13-3 · Continuous floor guide

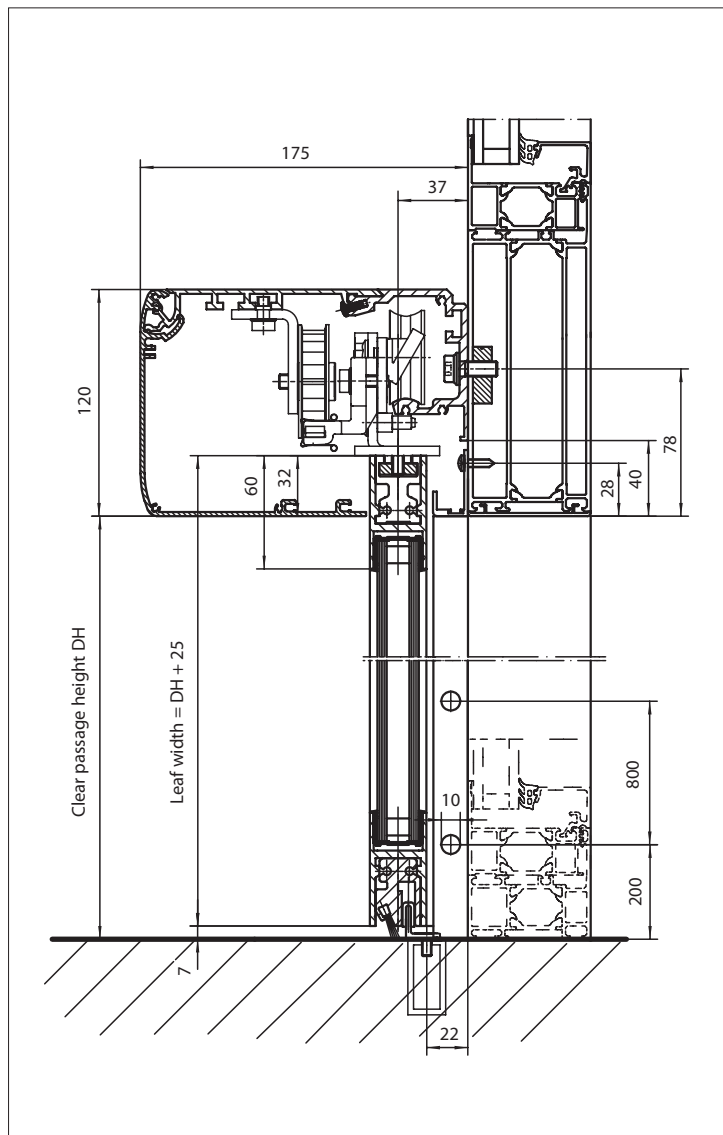


Fig. 13-2 · Fixed floor guide, angle guidance

Horizontal and vertical sections, ESG

ECdrive / ECdrive-FR,
ESG toughened safety glass

Legend	
DH	Clear passage height
ÖW	Opening width
B	Total length of system (mm)

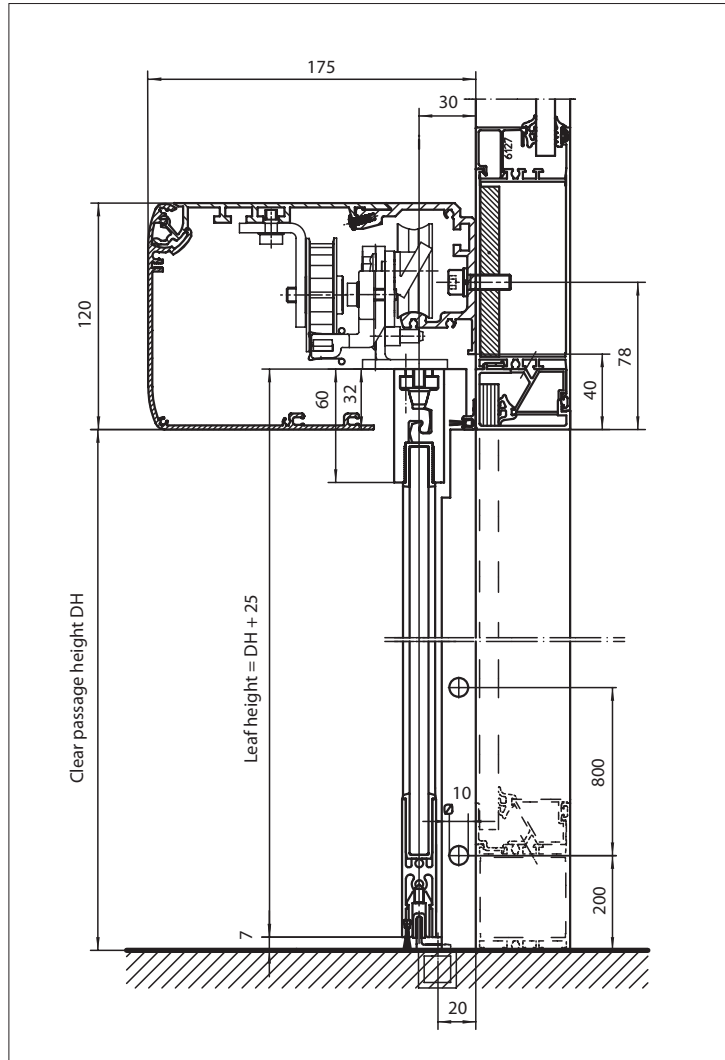


Fig. 14-1 · Vertical section toughened safety glass

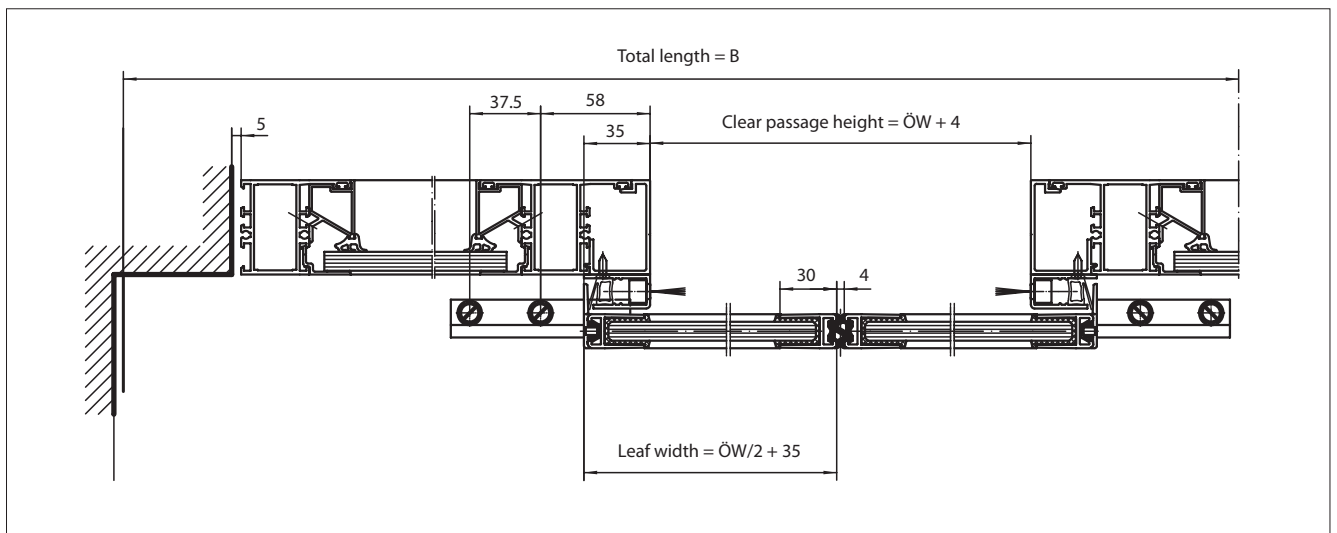


Fig. 14-2 · Horizontal section toughened safety glass

Calculation of overall length / glass dimensions

Calculation of overall length ^{*)}		
	ECdrive	ECdrive-FR ^{**)}
Single-leaf version	ÖW 700 - 3000 mm $B = 2 \times \text{ÖW} + 60 \text{ mm}$	ÖW 900 - 3000 mm $B = 2 \times \text{ÖW} + 60 \text{ mm}$
Double-leaf version	ÖW 900 - 3000 mm $B = 2 \times \text{ÖW} + 100 \text{ mm}$	ÖW 900 - 3000 mm $B = 2 \times \text{ÖW} + 100 \text{ mm}$

*) Min. overall length with ISO glass profile system

***) Request drawing No. 70504-0-001 with the versions FR-RWS/-LL

Hint:

- ▶ Opening widths of sliding doors on escape routes < 1000 mm are only admissible in special cases.
- ▶ The minimum opening widths have to comply with the requirements of the building regulations.

Calculation of glass dimensions			
		ISO double-glazed safety glass	ESG toughened safety glass
Leaf width	single-leaf	$FB = \text{ÖW} + 40$	$FB = \text{ÖW} + 35$
	double-leaf	$FB = \text{ÖW}/2 + 40$	$FB = \text{ÖW}/2 + 35$
Leaf height	with cover 150	$FH = DH + 55$	
	with cover 120	$FH = DH + 25$	
Glass dimensions	Glass width	$FB - 40$	$FB - 26$
	Glass height	$FH - 90$	$FH - 85$
	Glass strength	22 mm	10 mm, 12 mm

Legend	
ÖW	Opening width
B	Total length of system (mm)
DH	Clear passage height
FH	Leaf height
FB	Leaf width

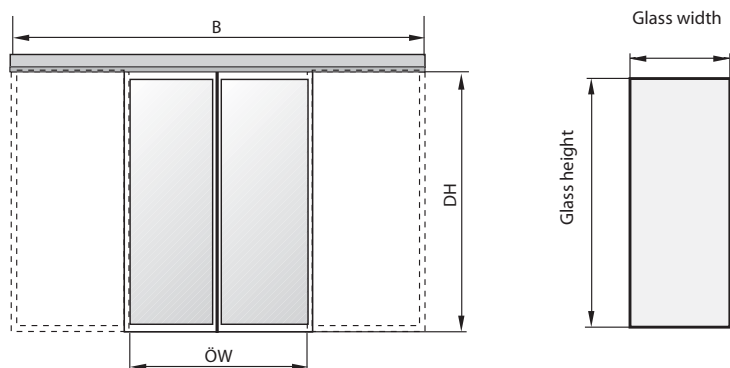


Fig. 15-1 · Calculation glass dimensions

Display programme switch

The GEZE display programme switch with membrane keyboard is available as surface-mounted (AP) version and as flush-mounted (UP) ^{*)} version.

Technical data

- ▶ Display: 7 segment display, 2 digits
- ▶ Temperature range: -20° C up to +50° C
- ▶ Enclosure rating IP 40

Key-operated switch for display programme switch

If automatic sliding door systems are used on escape and rescue routes an additional key-operated switch is mandatory (in Germany).

The key-operated switch makes sure that the automatic door drive can be actuated by authorised persons only.

Functions of programme switch	
	<p>Permanently open The door opens to position OPEN and remains open</p>
	<p>Night The movement detectors are inactive, the door closes and is secured by locking of the door leaves to prevent the door from being pushed open by force</p>
	<p>Shop closing time The door opens and closes only, if someone stepping out of the door from. The exterior movement detector is not active, the interior movement detector is active</p>
	<p>Automatic The door opens as soon as the door is triggered via movement detectors or push buttons and closes again in accordance with a pre-set time. Light barriers provide safety during the operation of the leaves.</p>
	<p>Reduced opening width If the door is in position "Permanently open", "Automatic operation" and "Shop closing time" it opens only a part of its max. opening width. As a result, heat exchange can be reduced. The reduced opening width can be infinitely varied by manually positioning the door while the system is in learning mode.</p>

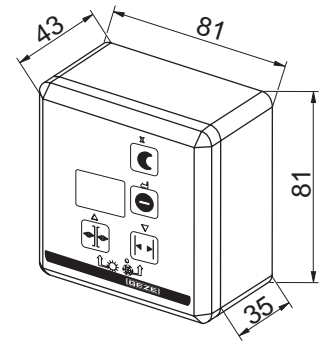


Fig. 16-1 · Display programme switch AP

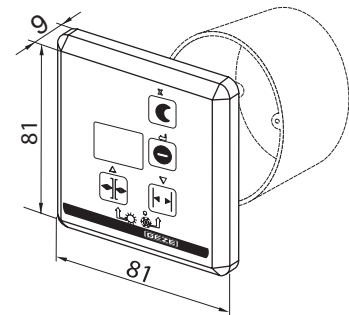


Fig. 16-2 · Display programme switch UP ^{*)}

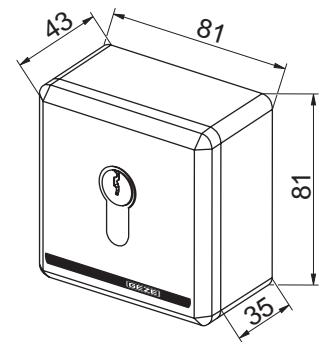


Fig. 16-3 · Key-operated switch AP

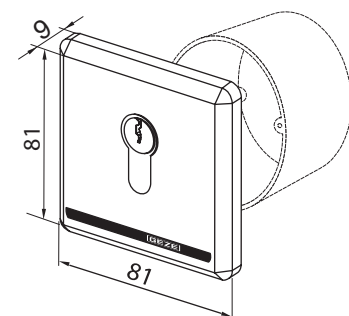


Fig. 16-4 · Key-operated switch UP ^{*)}

^{*)} for flush-mounted (UP) version a standard box with ø 60 mm and screws is required, the standard box is not included in the package supplied by GEZE

Activation

Basic types of activation

Note (in Germany): To decide which type of control element will be used please check that the item is part of the test certificate for type-tested systems!

- ▶ Radar movement detectors detect all objects moving within the radar field. All movements within the detection area cause a reflection which is transferred as door opening impulse.
- ▶ Active infrared movement detectors detect persons and objects in accordance with the reflection principle of short-wave infrared radiation. This allows to exactly adjust the detection area. In addition to persons and animals, supermarket trollies or hospital beds, too, trigger the door-opening impulse.

- ▶ Passive infrared movement detectors react to heat radiation, connected with movement and are therefore suited to detect persons. Supermarket trollies, e.g., cannot be detected due to the missing heat radiation.

- ▶ Push button, key-operated switch, etc.

- ▶ Remote controls

Consider please:

Radar or infrared movement detector units have to be protect against rain, snow and direct exposure to the sun e.g. by roofing supplied by customer.

Locking of door, leaving /entering the building

How to pass the locked door?
The programme switch is set to night-setting. The door is closed and mechanically locked.

- ▶ Leaving the room:
 - operate the manual unlocking button
 - the door opens
 - and closes and locks automatically after you have left the room
- ▶ Entering the room:
 - the door can be opened by a key-operated switch or any other electronic switch
 - the door is unlocked and opens
 - after you have entered the room, the door closes and locks again

Now you can select the desired operation mode at the programme switch.

Type-tested sensors and control elements

The following items are part of the test certificate for type-tested systems and therefore permitted:

Actuation of the door		Protecting danger spots / presence sensors	
Actuation in escape direction (KI)	Actuation from outside (KA)	Protecting within closing (SIS)	Protecting within opening (SIO)
Radar movement detector Merkur S, SV, SF Activ S GE, SF Jupiter R, S, SV, SF		Infrared light barrier GZ 470 GZ 472 GZ 470 V GZ 472 V	
Passive infrared movement detector PIR 20 PIR 30		Infrared sensor AIR 30	Infrared sensor AIR 30
		Infrared light curtain IRIS S Activ R, SF Jupiter R, S, SV, SF	Infrarot light curtain IRIS S Presence S
		Ultrasonic presence sensor HZC GEZE	

Wiring diagram for sliding door drives with control DCU1 (standard drive), DCU1-2M (FR-version)

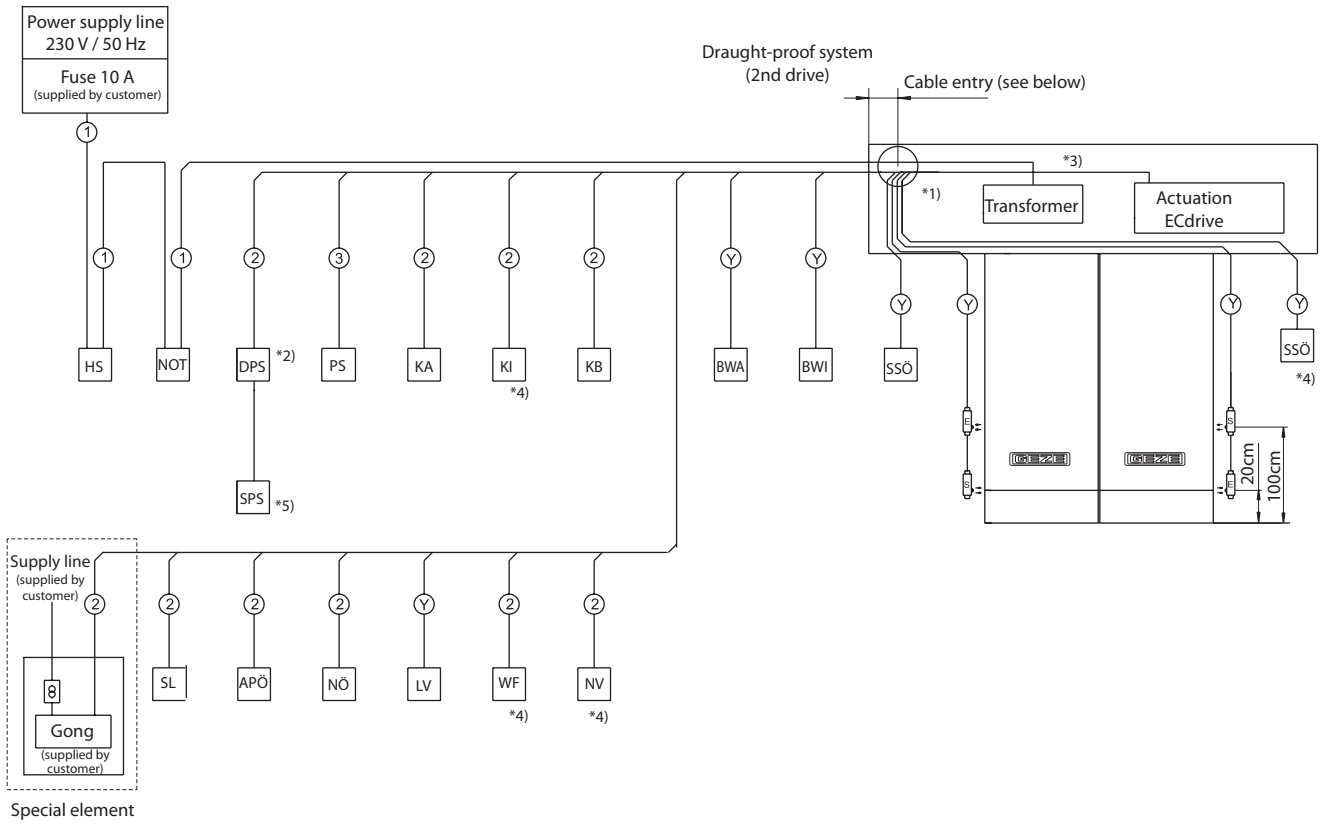


Fig. 18-1 · Wiring diagram Nr. 70484-9-9861

Legend	
HS	Mains switch
NOT	230 V Emergency OFF switch
DPS	Display programme switch
SLS	Key-operated switch
KA	Actuation device outside
KI	Actuation device inside
KB	Actuation device, authorised
BWA	Movement detector outside
BWI	Movement detector inside
SSÖ	Safety sensor "OPEN"
SL	Fault indicator lamp
APÖ	Reduced security opening
NÖ	Emergency opening
LV	Light curtain (SIS), KA or KI
WF	Draught proof system (2nd drive)
NV	Emergency locking
Cable	
1	NYM-J 3 x 1,5 mm ²
2	I-Y (ST)Y 1 x 2 x 0,6
3	I-Y (ST) 3 x 2 x 0,6
Y	Supplied by GEZE

Hints:

Wiring in accordance with VDE 0100

- 1.) Cable entry through the left side panel or at the left side from behind, concealed (see drawing).
For the protection of cables avoid sharp edges and use edge protection.
- 2.) Cable length max. 100 m
- 3.) Signal cables min. 5 m, main cable ends min. 2 m out of the wall
- 4.) not at DCU1-2M
- 5.) necessary with DCU1-2M

Important installation regulation for the processing plant:

Wiring, connection and commissioning by authorised specialists only!

All warranty and service agreements become invalid, if GEZE products are combined with third-party products.

With installation the relevant regulations are to consider, in particular VDE 0833/0815

Connection diagrams:

Standard drive (DCU1): 70484-9-9847; 105127

FR-versions (DCU1-2M): 70484-9-9850; 105130

Hints for Speciment Test



Automatic sliding doors for the use on escape and rescue routes are subject to special test regulations.

The **test certificates for type-tested systems** are in hand:

- ▶ **GEZE ECdrive**
single-leaf right or left hand closing,
double-leaf
automatic linear sliding doors
for opening width max. 3000 mm
for leaf weight max. 2 x 120 kg

- ▶ **GEZE ECdrive C**
curved sliding doors

Observe:

- ▶ To be accordingly equipped before installation and start-up a safety analysis with consideration of the local conditions is required and the system has to be accomplished with sensors and preventive measures.
- ▶ List of certified sensors, see page 17
- ▶ Suitable for dry environment only
- ▶ The main switch for all-pole disconnection from the supply network has to be protected from actuation by unauthorised persons. Alternatively the switch integrated into the drive is permitted as main switch.
- ▶ An emergency switch is not necessary cause the drive fullfills the valid EN

Permitted options:

- ▶ Locking device integrated into the drive
- ▶ Locks at the floor
- ▶ Cantilevered version
- ▶ Signal transmitter and actuation sensor according to current list of certified sensors
- ▶ Actuation device inside and outside for unlocking
- ▶ Reduced opening width



Automatic sliding doors for the use on escape and rescue routes are subject to special test regulations.

The **test certificates for type-tested systems** are in hand:

- ▶ **GEZE ECdrive-FR**
single-leaf right or left hand closing,
double-leaf
automatic linear sliding doors for the use on escape and rescue routes
- ▶ **GEZE ECdrive C-FR**
curved sliding doors for the use on escape and rescue routes

Observe:

- ▶ To be accordingly equipped before installation and start-up a safety analysis with consideration of the local conditions is required and the system has to be accomplished with sensors and preventive measures.
- ▶ List of certified sensors, see page 17
- ▶ Suitable for dry environment only
- ▶ The main switch for all-pole disconnection from the supply network has to be protected from actuation by unauthorised persons. Alternatively the switch integrated into the drive is permitted as main switch.
- ▶ An emergency switch is not necessary cause the drive fullfills the valid EN

Permitted options:

- ▶ Locking device integrated into the drive
- ▶ Locks at the floor
- ▶ Cantilevered version
- ▶ Signal transmitter and actuation sensor according to current list of certified sensors
- ▶ Actuation device inside and outside for unlocking
- ▶ Motor break may be used within the operation mode shop closing time (FR-LL)
- ▶ 2nd disconnectible movement detector in escape direction may be used (FR-DUO)
- ▶ Connection to external GMA / BMS
- ▶ Reduced opening width (minimum width of escape route)



EG-Konformitätserklärung

EC-Declaration of Conformity

CE-Déclaration de conformité

Hersteller:

(Manufacturer, Fabricant)

GEZE GmbH**Reinhold-Vöster-Str. 21-29****D-71229 Leonberg****Produktbezeichnung:**

(Product identifier,

Désignation du produit)

automatische Schiebetürantriebe

(automatic sliding door drives,

systèmes automatiques pour porte coulissante)

GEZE ECdrive, GEZE ECdrive-FR**Erklärung** (Declaration, Déclaration):

Die genannten Antriebe sind in alleiniger Verantwortung des o.g. Herstellers entwickelt, konstruiert und gefertigt in Übereinstimmung mit folgenden Richtlinien und Normen.

The above drives are under the sole responsibility of the above manufacturer developed, designed and manufactured in accordance with the following directives and standards.

Les produits mentionnés sont développés, construits et fabriqués en propre responsabilité du fabricant susnommé en respectant suivantes.

EU-Richtlinien (EU-Directives, Directives UE):

- ▶ EMV-Richtlinie 89/336/EWG in der Fassung 93/31/EWG
(EMV Directive in the version 89/336/EWG, Directive 89/336/CEM version 93/31/CEM)
- ▶ Niederspannungsrichtlinie 73/23/EWG in der Fassung 93/68/EWG
(Low Voltage Directive 73/23/EWG in the version 93/68/EWG,
Directive relative à la basse tension 73/23/CEM, version 93/68/CEM)

Europäische Normen (European Standards, normes européennes):

- ▶ EN 55011
- ▶ EN 60335-1
- ▶ EN 61000-6-2
- ▶ EN 60950

Hermann Alber
Geschäftsführer

Leonberg, den 26. Oktober 2006



GEZE GmbH
P.O. Box 1363
71226 Leonberg
Germany

GEZE GmbH
Reinhold-Vöster-Straße 21-29
71229 Leonberg
Germany
Telefon +49 (0) 7152-203-0
Telefax +49 (0) 7152-203-310

www.geze.com

GEZE branch offices

Germany

GEZE GmbH
Niederlassung Nord/Ost
Bühningstraße 8
13086 Berlin (Weissensee)
Tel. +49 (0) 30-47 89 90-0
Fax +49 (0) 30-47 89 90-17
E-mail: berlin.de@geze.com

GEZE GmbH
Niederlassung West
Nordsternstraße 65
45329 Essen
Tel. +49 (0) 201-83082-0
Fax +49 (0) 201-83082-20
E-mail: essen.de@geze.com

GEZE GmbH
Niederlassung Mitte
Adenauerallee 2
61440 Oberursel (b. Frankfurt)
Tel. +49 (0) 6171-63610-0
Fax +49 (0) 6171-63610-1
E-mail: frankfurt.de@geze.com

GEZE GmbH
Niederlassung Süd
Reinhold-Vöster-Straße 21-29
71229 Leonberg
Tel. +49 (0) 7152-203-594
Fax +49 (0) 7152-203-438
E-mail: leonberg.de@geze.com

GEZE subsidiaries

Germany

GEZE Sonderkonstruktionen GmbH
Planken 1
97944 Boxberg-Schweigern
Tel. +49 (0) 7930-9294-0
Fax +49 (0) 7930-9294-10
E-mail: sk.de@geze.com

GEZE Service GmbH
Reinhold-Vöster-Straße 25
71229 Leonberg
Tel. +49 (0) 7152-9233-0
Fax +49 (0) 7152-9233-60
E-mail: info@geze-service.com

GEZE Service GmbH
Niederlassung Berlin
Bühningstraße 8
13086 Berlin (Weissensee)
Tel. +49 (0) 30-470217-30
Fax +49 (0) 30-470217-33

Europe
Benelux

GEZE Benelux B.V.
Leemkuil 1
Industrieterein Kapelbeemd
5626 EA Eindhoven
Tel. +31 (0) 40-26290-80
Fax +31 (0) 40-26290-85
E-mail: benelux.nl@geze.com

France

GEZE France S.A.R.L.
ZAC de l'Orme Rond
RN 19
77170 Servon
Tel. +33 (0) 1-60626070
Fax +33 (0) 1-60626071
E-mail: france.fr@geze.com

Great Britain

GEZE UK Ltd.
Blenheim Way
Fradley Park, Lichfield
Staffordshire WS13 8SY
Tel. +44 (0) 1543-443000
Fax +44 (0) 1543-443001
E-mail: info@geze-uk.com

Italy

GEZE Italia Srl
Via Giotto 4
20040 Cambiago (MI)
Tel. +39 02 95 06 95-11
Fax +39 02 95 06 95-33
E-Mail italia.it@geze.it

GEZE Engineering Roma Srl
Via Lucrezia Romana 91
00178 Roma
Tel. +39 06-7265311
Fax +39 06-72653136
E-mail: gezeroma@libero.it

GEZE Engineering Bari Srl
Via Treviso 58
70022 Altamura (Bari)
Tel. +39 080-3115219
Fax +39 080-3164561
E-mail: gezebari@libero.it

Austria

GEZE Austria GmbH
Mayrwiesstraße 12
5300 Hallwang b. Salzburg
Tel. +43 (0) 662-663142
Fax +43 (0) 662-663142-15
E-mail: austria.at@geze.com

Poland

GEZE Polska Sp. z o.o.
ul. Annopol 3 (Zeran Park)
03-236 Warszawa
Tel. +48 (0) 22-8142211
Fax +48 (0) 22-6142540
E-mail: geze@geze.pl

Switzerland

GEZE Schweiz AG
Bodenackerstrasse 79
4657 Dulliken
Tel. +41 (0) 62-285 54 00
Fax +41 (0) 62-285 54 01
E-mail: schweiz.ch@geze.com

Spain

GEZE Iberia S.R.L.
Pol. Ind. El Pla
C/ Comerc, 2-22, Nave 12
08980 Sant Feliu de Llobregat
(Barcelona)
Tel. +34-(0) 9-02 19 40 36
Fax +34-(0) 9-02 19 40 35
E-mail: iberia.es@geze.com

Scandinavia
Sweden

GEZE Scandinavia AB
Mallslingan 10
Box 7060
18711 Täby
Tel. +46 (0) 8-7323-400
Fax +46 (0) 8-7323-499
E-mail: sverige.se@geze.com

Norway

GEZE Scandinavia AB avd. Norge
Postboks 63
2081 Eidsvoll
Tel. +47 (0) 639-57200
Fax +47 (0) 639-57173
E-mail: norge.se@geze.com

Finland

GEZE Finland
Branch office of GEZE
Scandinavia AB
Postbox 20
158 71 Hollola
Tel. +358 (0) 10-400 51 00
Fax +358 (0) 10-400 51 20
E-mail: finland.se@geze.com

Denmark

GEZE Danmark
Branch office of GEZE
Scandinavia AB
Hoje Taastrup Boulevard 53
DK-2630 Taastrup
Tel. +45 46 32 33 24
Fax +45 46 32 33 26
E-mail: danmark.se@geze.com

Middle East
U.A.E.

GEZE Middle East
P.O. Box 17903
Jebel Ali Free Zone, Dubai
Tel. +971 (0) 4-8833112
Fax +971 (0) 4-8833240
E-mail: geze@emirates.net.ae

Asia

GEZE Industries (Tianjin) Co., Ltd.
Shuangchenzhong Road
Beichen Economic Development
Area (BEDA)
Tianjin 300400, P.R. China
Tel. +86 (0) 22-26973995-0
Fax +86 (0) 22-26972702
E-mail: geze@public1.tpt.tj.cn

GEZE Industries (Tianjin) Co., Ltd.
Branch Office Shanghai
Rm. 3010 Building No. 2
3 Hongqiao Road
200030 Shanghai, P.R. China
Tel. +86(0)21-52 34 09-60/-61
Fax +86(0)21-64 47 20 07
E-mail: gezesh@geze.com.cn

GEZE Industries (Tianjin) Co., Ltd.
Branch Office Guangzhou
Room 1113, Jie Tai Plaza
218-222 Zhong Shan Liu Road
510180 Guangzhou P.R. China
Tel. +86 (0) 20-813207-02
Fax +86 (0) 20-813207-05
E-mail: gezegz@public2.sta.net.cn

GEZE Industries (Tianjin) Co., Ltd.
Branch Office Beijing
No. 6-32 Building, Jili Avenue
Daxing District, Chaoyang District
Tel. +86(0)10-87 97 51-77/-78
Fax +86(0)10-87 97 51-71
E-mail: gezebj@geze.com.cn

GEZE Asia Sales Ltd.
No. 88-1-408, East Road
Free Trade Zone of Tianjin Port
Tianjin, P.R. China
Tel. +86 (0)22-26 97 39 95-0
Fax +86 (0)22 26 97 27 02
E-mail: geze@public1.tpt.tj.cn

GEZE Sonderkonstruktionen (Tianjin) Ltd.
No. 6-32 Building, Jili Avenue
Daxing District, Chaoyang District
100076 Beijing, P.R. China
Tel. +86 (0) 10-87 96 51-52
Fax +86 (0) 10-87 97 14-76



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GEZE Representative

