GEZE AUTOMATIC DOOR SYSTEMS



# **QUIET AND STRONG WITH FILIGREE DESIGN** GEZE SLIMDRIVE EMD – THE SWING DOOR DRIVE



BEWEGUNG MIT SYSTEM



#### TABLE OF CONTENTS

Introduction: Quiet and strong with filigree design	4
Product benefits and examples of use	5
The Slimdrive EMD/EMD-F component in overview	6
Technical features and overview of the assembly types	7
Uses	8
Slimdrive EMD for toilets for the disabled – Reliability at any location	9
Programme switch	10
Safety sensor barriers: Optimum controlling and securing of automatic drives	11
Hygienically one step ahead: GEZE swing door systems with no-contact control	12
GEZE radio programme. Wireless control with system	13
Installation drawings: Head mounting with guide rail on the hinge end	14
Installation drawings: Head mounting with guide rail on the end opposite the hinge	16
Installation drawings: Head mounting with rod on the end opposite the hinge	18
Installation drawings: Door leaf mounting with guide rail on the hinge end	20
Installation drawings: Double-leaf, head mounting with guide rail on the hinge end	22
Installation drawings: Double-leaf, head mounting with guide rail on the end opposite the hinge	23
Installation drawings: Double-leaf, head mounting with rod on the end opposite the hinge	24
Installation drawings: Double-leaf, door leaf mounting with guide rails on the hinge end	25
Installation dimensions of GC 334 safety sensors and sensor barrier with handle bar	26
Cable plan for Slimdrive EMD/EMD-F, single and double leaf	27
TÜV certificate	30



Z-UP Stuttgart, Germany

#### INTRODUCTION





#### Quiet and strong with filigree design

The electro-mechanical swing door drive, the GEZE Slimdrive EMD, is characterised by a range of different installation options and leaves plenty of scope for the ideas of architects and planners. The compact drive, just 7 cm in height, is able to easily and quietly move both large and heavy interior and exterior doors. This means that the Slimdrive EMD, which is type-tested in accordance with DIN 18650, is the ideal solution when both performance capability and lowest possible noise emissions are required.

The spectrum of uses ranges from public buildings through to office complexes and hotels and right down to hospital and care institutions. The most modern control technology in combination with a low wear and maintenance free high-performance motor ensure reliable operation even for heavily used doors. All this opens up a wide range of design options - even when space is at a premium and when slim profiles are used.

There is also a version available for use as smoke and fire-proof doors: The Slimdrive EMD-F has been authorised by the Deutsche Institut für Bautechnik (the German institute for construction technology) for use with both single and double leaf doors.

The GEZE GmbH is thus the only manufacturer to offer a complete range of automatic door drives with 7 cm optic. The range of Slimdrive products covers automatic door systems for swing doors, linear, telescopic and semi-circular sliding doors as well as folding doors. The very low construction height enables a seemingly elegant, almost invisible integration into the facade.

#### **GEZE** offers comprehensive service – fast and competent.

#### **PRODUCT BENEFITS**



### DIN18650

# CE

Slimdrive EMD, the quiet electro-mechanical drive system for single and double leaf swing doors is a powerful and highly compressed piece of technology. All drives in the range are type-tested and certified according to DIN 18650 and BGR 232 (corresponds to EN 954-1) and, naturally, all fulfil the latest safety and technologic standards.

#### Additional product benefits

- Low wear and maintenance free high performance motor for guaranteed reliable operation
- Very low drive dimensions enable installation even when space is at a premium, in particular in the event of slim profiles
- Extremely flexible thanks to many connection options, for example, motor lock, display programme switch, electrical door opener and locking bolt switch contact.
- Intelligent communication using a bus system enables simple cabling
- All door parameters, for example, opening or closing speed and end stop can be adapted optimally
- Adjustable supported servo-function to also make the door easy to open manually
- Standard: Push-and-go function can be activated and deactivated as required
- In low energy mode, the drive moves the door at a reduced speed
- Optional CAN interface for the implementation of demanding requirements, e. g. lobby controls
- Integrated closing sequence control integrated into the drive system for double leaf swing doors



#### EXAMPLES OF TYPES OF APPLICATION

- Anywhere where technology and optics are to be combined to the best of their abilities and drives with larger dimensions would disrupt the overall appearance
- When loud noises are to be avoided
- For large and heavy doors that need to be move with the minimum of effort, for example, in hospitals, homes for senior citizens or disabled persons and hotels
- For double leaf interior and exterior doors that need to close in the right order even without power (EMD F-IS)
- Automatic GEZE swing doors are characterised by a simple assembly process and they can also be retrofitted

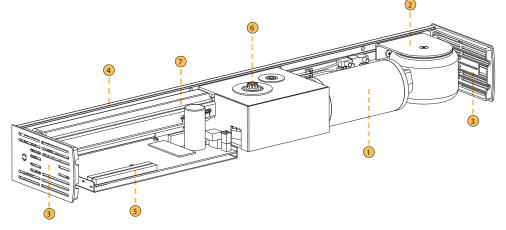
# Suitable for single and double leaf doors used as smoke and fire-proof doors all EMD-F-IS versions

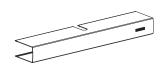
#### The GEZE Slimdrive EMD/EMD-F component in overview

<ul> <li>Motor-transmission unit</li> <li>Transformer</li> <li>Side elements</li> <li>Base plate</li> </ul>	•	•
<ul><li>Side elements</li><li>Base plate</li></ul>	•	•
Base plate		•
	•	•
	٠	٠
5 Control unit	٠	٠
Drive axis, continuous	٠	٠
Energy reserve	0	٠

#### $\bullet$ = Standard

 $\bigcirc$  = Not available for this version





#### Hood

Anodised or coloured

Mounting plate for drives (optional)

• The double leaf version is available with a continuous or with an intermediate hood

Generally speaking, the use of a mounting plate is recommended to make mounting easier.
The double leaf version is available with a continuous or with an intermediate hood

• A mounting plate may be required depending on the installation situation.



### Rod

• For body depths of 0–100 mm, 100–200 mm, 200–300 mm



#### Guide rail with lever

• Mounting will depend upon the selected type of opening.

#### **TECHNICAL FEATURES**

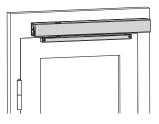
		EMD	EMD-F
Drive dimensions (W x H x D)		650 x 70 x 121 mm	650 x 70 x 121 mm
Closing force can be adjusted		0	EN 3-6
Max. leaf weight		180 kg	230 kg
Min. leaf width	with guide rail	850 mm	850 mm
	with rod	750 mm	750 mm
Max. leaf width		1,400 mm	1,400 mm
For fire proof doors fit	tted with guide rail = max. leaf w	vidth of 1250 mm (in acco	rdance with EN 1154)
Max. door opening ar	ngle, adjustable	115°	115°
Power supply		230 V AC, 50/60 Hz,	tolerance +10/-14%
Power consumption		230 W	230 W
Power supply for peri	pheral devices 24 V DC	1,200 mA	1,200 mA
Functions	Automatic	•	•
	Servo	0	0
	Low energy	0	O
	Push&Go	0	O
Operating modes (via internal programme switch)		Automatic	Automatic
		Night	Night
		Permanently open	Permanently open
Opening and closing	speed can be adjusted	•	•
Electrical end stop ca	n be adjusted	•	•
Mechanical end stop	can be adjusted	0	•
Recognition of obstac	cles and reversing	•	•
Actuation delay, adju	stable	0-20 seconds	0-20 seconds
Hold-open time, adju	istable	0-60 seconds	0-60 seconds
Temperature range		-10 up to +50 °C	-10 up to +50 °C
Protection type		IP 20	IP 20
Opening and closing	process	Channel-controlled	Channel-controlled

= Standard

 $\bigcirc$  = Not available for this version

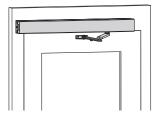
#### OVERVIEW OF ASSEMBLY TYPES

#### Mounting at the hinge end

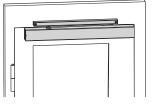


Head mounting with guide rail

#### Mounting at the end opposite the hinge



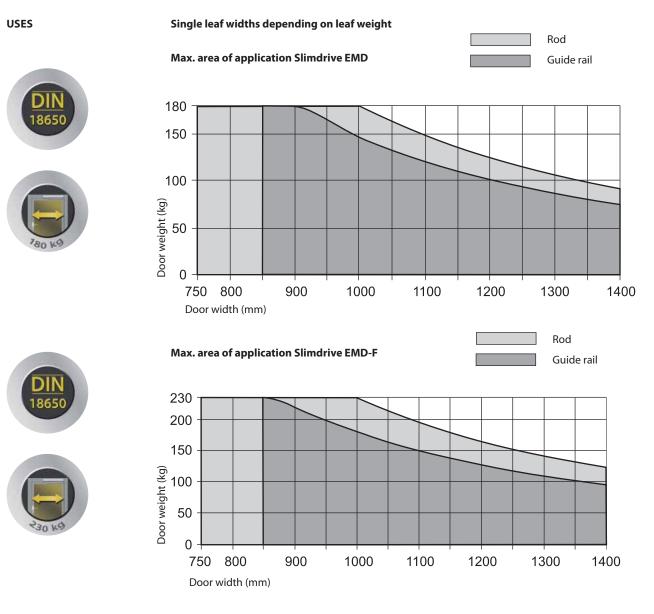




Door leaf mounting with guide rail



Head mounting with guide rail



#### Hinge dimensions for double leaf systems (with/without IS)

Mounting type	Hinge distance		
Head mounting hinge end with guide rail	min. 1,700 mm	max. 2,500 mm	max. 2800 mm, not for fire proof doors
Head mounting end opposite the hinge with guide rail	min. 1,700 mm	max. 2,500 mm	max. 2800 mm, not for fire proof doors
Head mounting end opposite the hinge with rod	min. 1,500 mm	max. 2,800 mm	max. 2,800 mm

Single leaf widths depending on leaf weight, see application diagram above

#### Current overview of Slimdrive EMD-F

Mounting type		Head mou Hinge end	5	Door leaf Hinge end	2	Head mou Opposite l	2				
Pivot element		Guide rail		Guide rail		Guide rail		Rod			
Spring preload		min.	max.	min.	max.	min.	max.	min.	max.		
Closer size EN 1154		3 5		3 5		3 5		4 6			
Closing torque		20 45 Nr	N	17 43 Nm	٦	20 45 Nm	۱	35 70 Nn	า		
Opening torque	Automatic	122 97 N	122 97 Nm		122 97 Nm 125 96 Nm		m	115 90 Nm		max.150 Nm	
	Manual	45 66 Nr	n	50 73 Nm	٦	42 65 Nm	۱	61 88 Nn	ſ		

Note: For automatic mode, the doors must be equipped with suitable hinges. A door stop is necessary.

#### GEZE Slimdrive EMD for toilets for the disabled - Reliability at any location

#### SPECIAL AREAS OF USE

A toilet for disabled people must be set up in such a way to ensure that people with very different abilities are able to use the facilities without needing help. The Slimdrive EMD swing door drive offers essential assistance and ensures considerable convenience.

#### GEZE implements living quarters - barrier-free and suitable for the disabled



#### **Description of function**

After pressing the large elbow switch on the outside of the toilet, the door opens automatically and then closes itself after a set hold-open time has elapsed.

The switch in the WC cubicle is activated by the user to display the "Occupied" sign on the exterior indicator and the control lamp on the switch. At the same time, the large elbow switch inside and out is deactivated. This means that the door cannot be opened by anyone else, or opened accidentally by the user. The powered door opener prevent manually opening of the door from the outside. To leave the cubicle, the user employs the switch again. The "Occupied" display outside along with the control lamp inside will go out. Sensors at the DOOR OPEN large elbow switch activate the drive and the door is opened immediately.

In the event of a power failure, the closed-circuit opening unlocks the door and the user may exit by pushing opening or pulling the door. Pressing the large elbow switch will enable the door to be opened from the inside even when the system is powered. In an emergency, a key or the triggering of emergency off button can be used to open the door manually from the outside.

#### GEZE program switch for selection of the operational state of automatic swing doors











#### Display program switch

Operation electronically via push buttons	Can be locked in escape and rescue routes
GEZE DPS	GEZE DPS-SCT

#### Button programme switch

1 5	
Operation electronically via push buttons	Can be locked in escape and rescue routes
GEZE TPS	GEZE TPS-SCT

#### Mechanical programme switch

Mechanical operation via rotating door knob	Via key in escape and rescue routes
GEZE MPS	GEZE MPS-ST

#### The following operating modes can be set using the programme switch:

#### Permanently open

The door moves to the OPEN position and remains open. Movement detector or actuation device are deactivated.

#### Night operating mode

The drive is switched off, the door can be opened and closed by hand. Optional: The door opens and closes only when activated via an "Authorised" actuation device.

#### Closing time operating mode (one-way)

Door only opens and only closes when a person goes through the door from the inside to the outside. The external movement detector is not active, the internal one is switched to active.

#### Automatic operating mode

The door opens as soon as triggering through a movement sensor or actuation device takes place, and closes again after a certain time, which can be adjusted. Safety sensors serve to monitor the swivelling range. The movement of the door stops as soon as a person comes into the detection area of the sensor.

#### Fixed leaf on / off

In a double leaf system, the fixed leaf control can be deactivated. In this mode, the fixed leaf remains closed and the movement of the door is implemented by the active leaf only.

#### Operating mode OFF (only with TPS and MPS)

The drive is switched off and the door can be moved manually.

#### Key switch

It is possible to lock the programme switch using a key button (obligatory for doors in escape and rescue routes).

#### Optimum controlling and securing of automatic drives

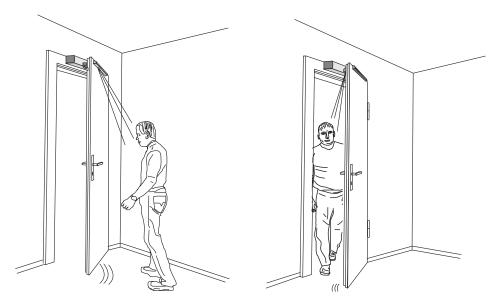
#### **GEZE SENSOR BARRIERS**

Safety sensor barriers are used to monitor and secure the swing range of automated swing door leaves . The assembly is carried out on both sides, directly to the door leaf. This ensures the greatest possible level of protection both when opening and when closing the door.

#### **Functioning principles**

The GEZE safety sensor barriers work using an infrared light basis. A short-wave infrared beam is issued by the transmitter and picked up by the receiver thanks to reflections on the floor. The 3D light curtain of the sensor barrier results in a very precisely set detection area. Optical measurements of distances combined with trigonometry (triangulation) can be used to reliably recognise persons and objects, for example, shopping trolleys and patient beds.

- The door movement is stopped in the opening direction as soon as the sensor barrier registers an obstacle. Wall blanking of the safety sensor barriers is possible and can be learned.
- In the closing direction, the safety sensor barrier controls the drive of the door being approached and opens it again.





#### GEZE sensor barriers GC 334:

These electronically adjustable active infrared sensors with dip switch serve to secure automatic swing door leaves in accordance with DIN 18650. They can also be used when the floor conditions are difficult, for example, floor mats and metal rails as well as dark and absorbing floors.

- Simple click mounting in the sensor profile
- Fully automatic start up via learn button, can also be done for several connected units
- Simple adjustment options (e.g. exit assignment, frequency, background mode, grey area) via dip switch
- Integrated second output relay in the sensor in order to secure both the hinge end and the end opposite the hinge with a single cable leading to the drive
- Low power consumption of sensor module
- Closely meshed detection field with a wide detection field for each sensor module
- Highest standard of safety thanks to the constant self-monitoring

#### Control elements for automatic swing door systems

#### **Operating elements**

- 1 Integrated programme switch
- 2 Button programme switch
- 3 Key switch

#### **Control and security**

- 4 Trigger button
- 5 Active infrared sensor barrier
- 6 Electrical door opener

#### No-contact control

- 7 AIR 12 Cleanscan
- 8 Radar movement detector
- 9 GEZE radio programme



#### Hygienically one step ahead - GEZE swing door systems with no-contact control



#### GEZE proximity switch AIR 12 Cleanscan

Opening doors with a wave: The AIR 12 Cleanscan can be used to control interior doors with no requirement for haptic perception cleanly and conveniently. Thus, active infrared sensors ensure, for example, the bacteria-free access to the bathrooms as well as for germ-free conditions in hotel kitchens, swimming baths and doctor's surgeries.

The pulse generator is installed at hand height and is able to precisely recognise people and objects, regardless of the direction in which they are moving, both very close i.e. at a distance of just five centimetres or even as far as 0.6 metres. The differing detection distances can be adapted optimally to the actual ambient circumstances and the requirements of the user groups. The no-contact sensor system offer the highest possible level of operating convenience, simply moving towards the door is sufficient to active the automated opening function. It also brings about the benefit of absolute hygiene.

- No-contact proximity switch
- Variable adjustment of the sensor range in two stages
- Precise detection of people and objects regardless of the direction in which they are moving
- Can be used universally for either surface or flush mounting



#### GEZE radar movement detector GC 302:

Radar technology is ideal for detecting moving objects. Radar (**Ra**dio **D**etection **a**nd **R**anging) refers to the locating of and detection of objects by means of electro-magnetic waves. The GEZE radar movement sensor GC 302 serves to implement reliable control of automatic doors.

- Pre-programmed convenience settings
- Configuration using buttons and remote control
- Prevention of unintentional door opening by blocking out cross-traffic
- SMD+ as the new detection field for movements < 50 mm/second

#### Wireless control with system - reliable, convenient and secure at the touch of a button

#### **GEZE RADIO PROGRAMME**

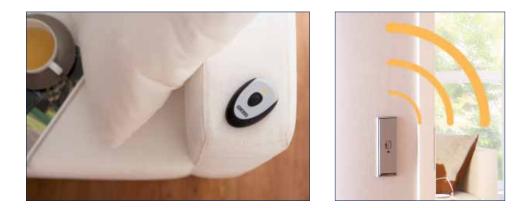


Radio controlled operators for the various applications in our daily life make bring added convenience. Senior citizens, the disabled or physically weaker people can be afforded more quality of life, and they help make things easy for care staff. They are increasingly becoming standard fittings for barrier-free and age-suitable living.

With a new and innovative radio solution, GEZE has also adapted their range of control elements. The wireless control of doors and windows using the GEZE radio programme makes connection to a power supply superfluous. Thanks to the tiny dimensions of the radio modules, these can easy be integrated in a drive or an in-wall casing and can also be clipped directly into the elbow switch and mounted wirelessly on glass.

#### Examples of types of application

- Retro-fitting without needing to lay cables and using existing switches/buttons
- Mounting without connection to power, for example, on glass
- Individual or group control of doors and windows
- Combined control of doors and windows using a remote



The GEZE radio programme is safe! The encryption of the radio signals using a rolling code with up to 74 trillion code combinations means that taught radio transmitters cannot be "cracked". Each transmitter is taught individually and safely to eliminate false or unauthorised radio control. The radio transmitter has a range of up to 30 metres. Doors can be controlled over great distances and even through walls. The radio receiver has two outputs. On each of the two outputs, individual radio receivers can be taught and evaluated differently according to the connection to the control. In addition, it is possible to select various operating modes via a DIP switch. For example, a short push of the button can be used to just open the door, whereas if the button is pushed longer the door is held open. The radio programme is compatible with all GEZE door and window drives and is particularly suited for use with automatic swing doors.

#### Mounting at the hinge end

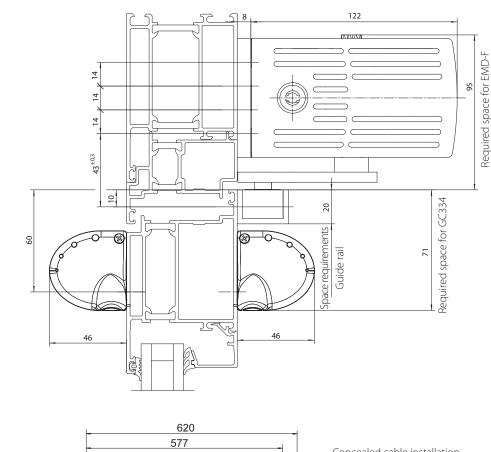
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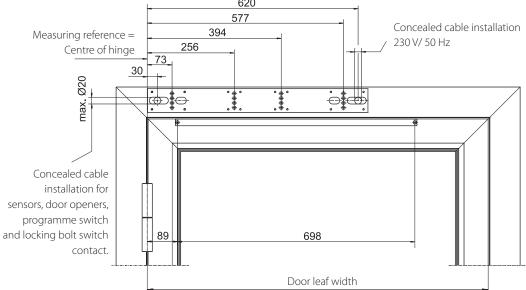
#### Fixing with mounting plate



Head mounting with guide rail

max. door projection:30 mmmax. door opening angle105°





30 mm

105°

#### Mounting at the hinge end

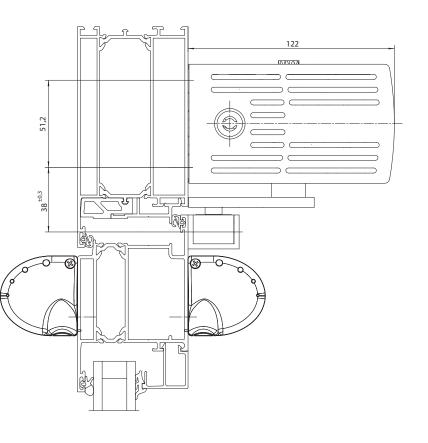
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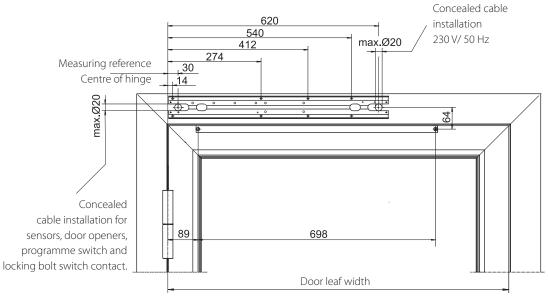
#### **Direct fixing**



# Head mounting with guide rail

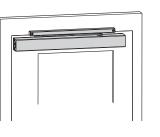
max. door projection: max. door opening angle



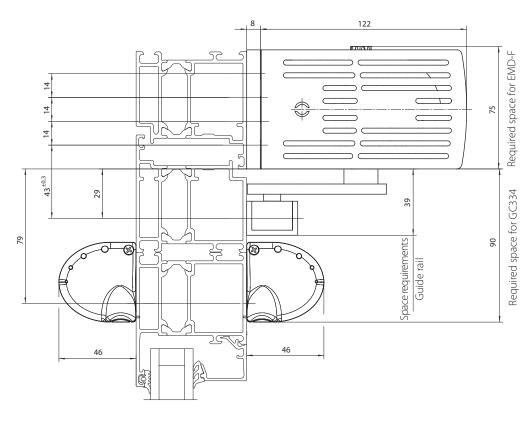


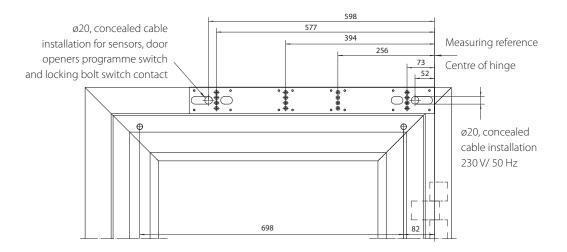
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#### Fixing with mounting plate



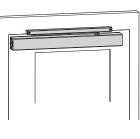
- Head mounting with guide rail
- max. body depth: -30 to +50 mmmax. door opening angle  $105^{\circ}$





Drawing number 70106-ep42

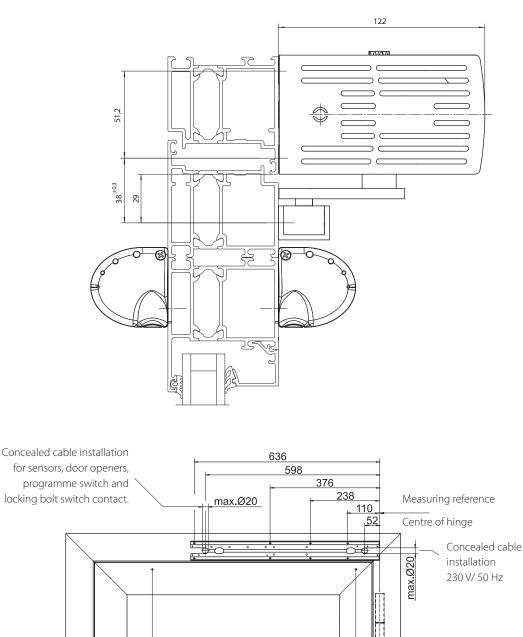
#### **Direct fixing**



# Head mounting with guide rail

max. body depth: max. door opening angle

-30 to +50 mm 105º



698

Door leaf width

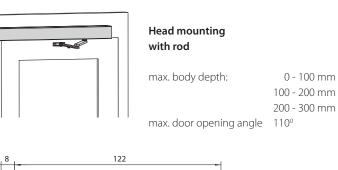
82

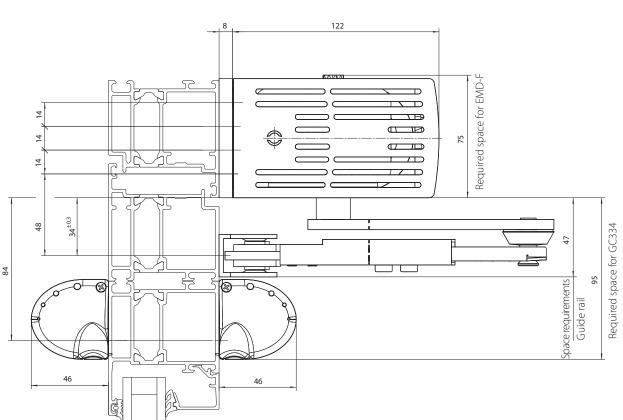
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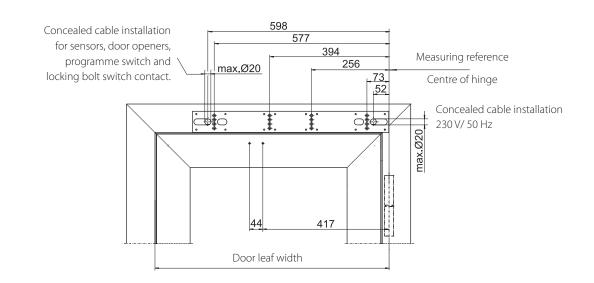
#### Fixing with mounting plate

#### Note:

We recommend the use of rods for external doors. Wind loads as well as under and over pressure must also be taken into consideration.





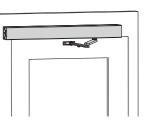


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#### **Direct fixing**

#### Note:

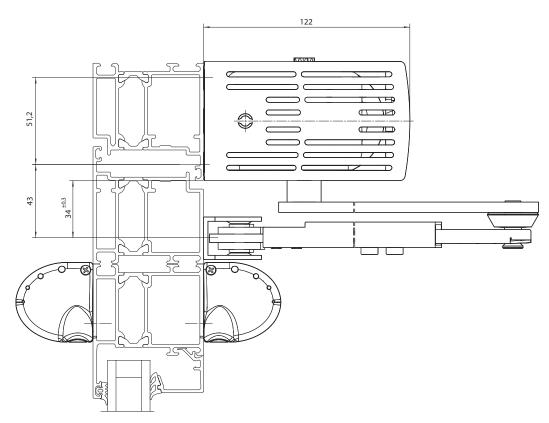
We recommend the use of rods for external doors. Wind loads as well as under and over pressure must also be taken into consideration.

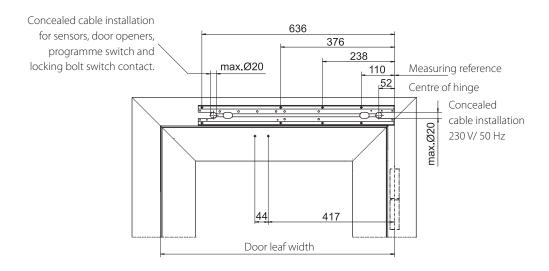




max.	body	depth:

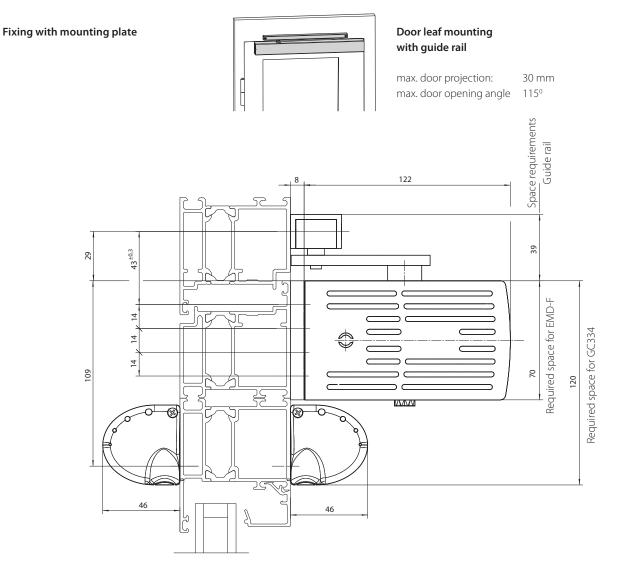
max. body depth:	0 - 100 mm
	100 - 200 mm
	200 - 300 mm
max. door opening angle	110°

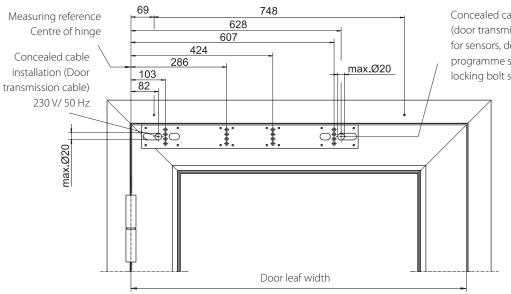




#### Mounting at the hinge end

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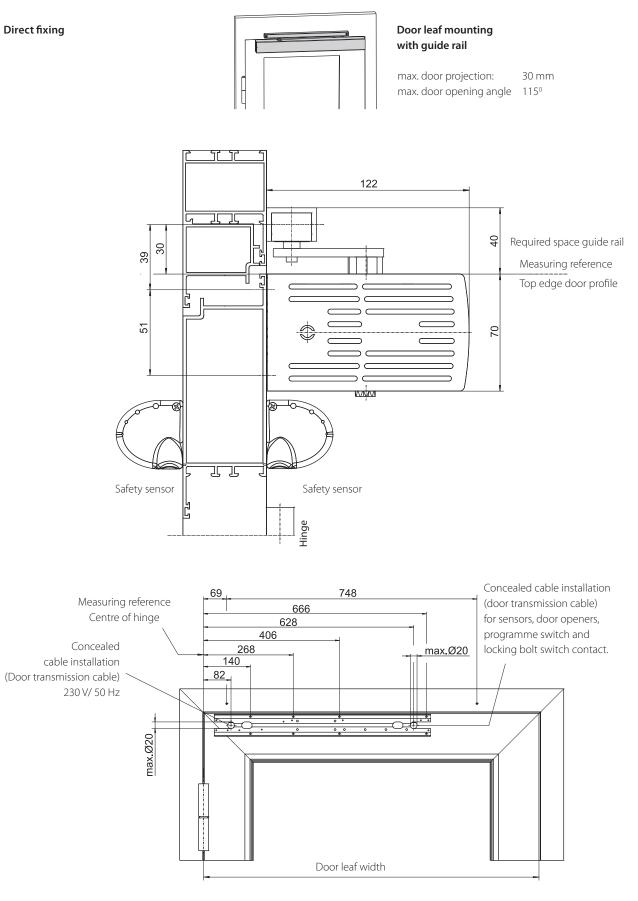




Concealed cable installation (door transmission cable) for sensors, door openers, programme switch and locking bolt switch contact.

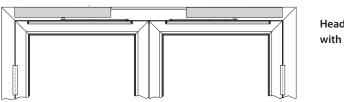
#### Mounting at the hinge end

Drawing number 70106-ep44



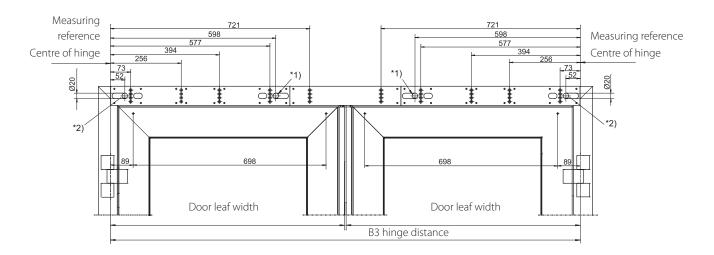
#### DOUBLE leaf, Mounting at the hinge end





Head mounting with guide rail

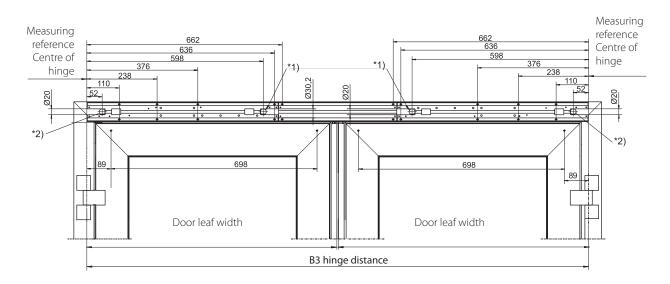
#### Fixing with mounting plates



\*1) Concealed cable installation 230 V / 50 Hz

\*2) Concealed cable installation for sensors, door openers, programme switch and locking bolt switch contact.

#### **Direct fixing**

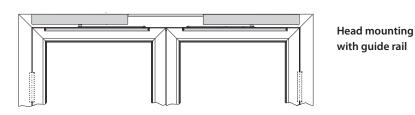


\*1) Concealed cable installation 230 V / 50 Hz

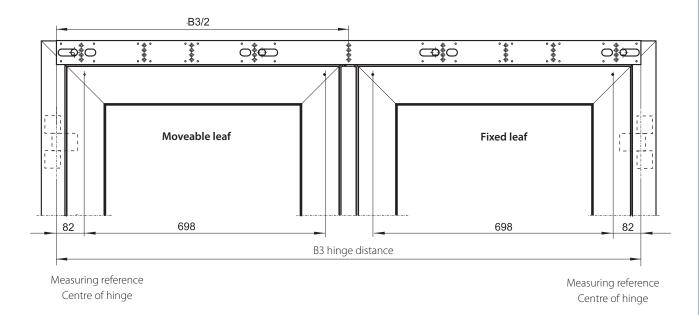
\*2) Concealed cable installation for sensors, door openers, programme switch and locking bolt switch contact.

#### DOUBLE leaf, Mounting at the end opposite the hinge

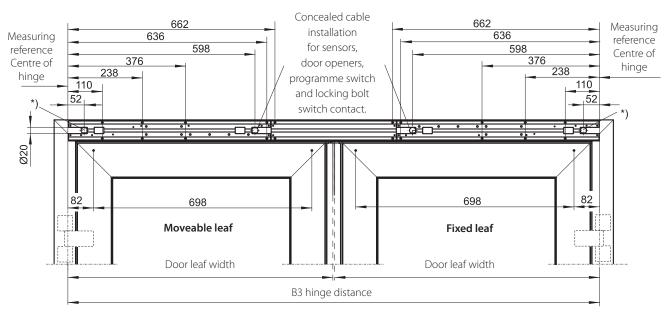
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Fixing with mounting plates



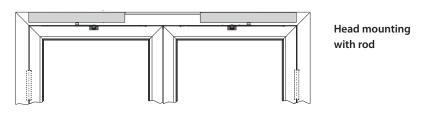
**Direct fixing** 



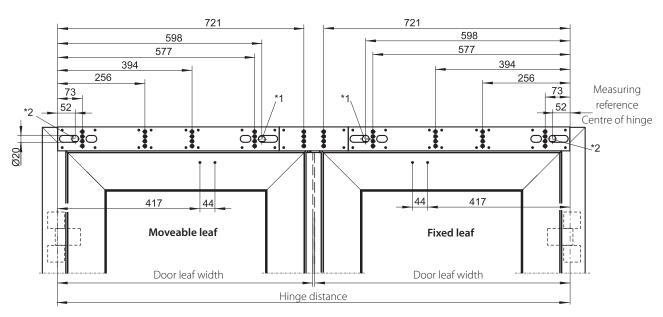
\*) Concealed cable installation 230 V / 50 Hz right and left

#### DOUBLE leaf, Mounting at the end opposite the hinge

Drawing number 70106-ep53



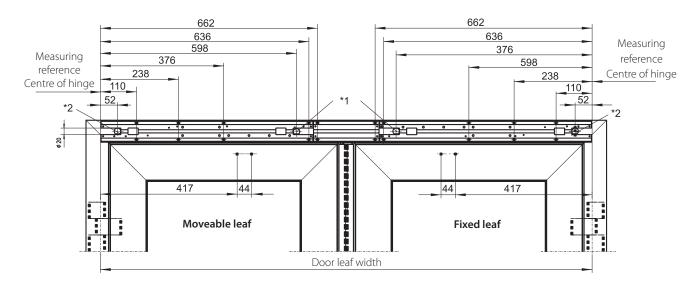
#### Fixing with mounting plates



\*1) Concealed cable installation for sensors, door openers, programme switch and locking bolt switch contact.

\*2) Concealed cable installation 230 V / 50 Hz

#### **Direct fixing**

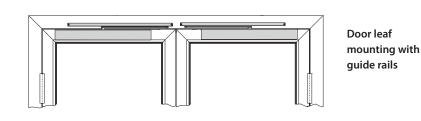


\*1) Concealed cable installation for sensors, door openers, programme switch and locking bolt switch contact.

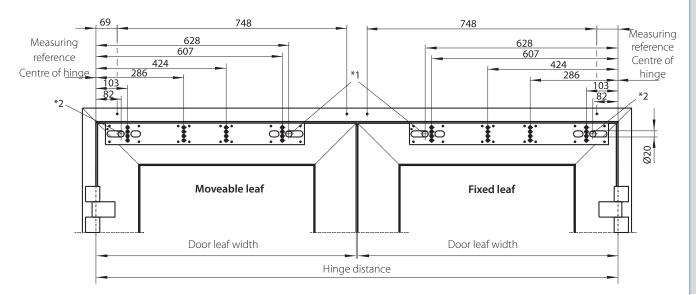
\*2) Concealed cable installation 230 V / 50 Hz

#### DOUBLE leaf, Mounting at the hinge end

Drawing number 70106-ep54



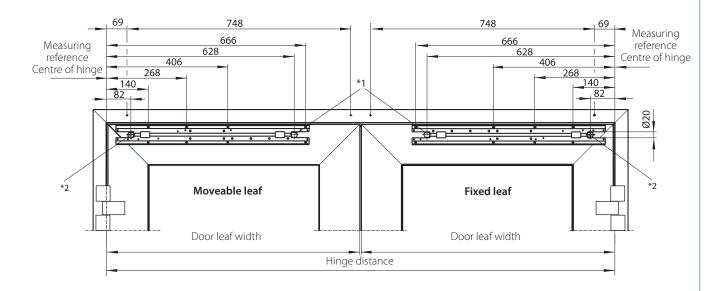
#### Fixing with mounting plates



\*1) Concealed cable installation for sensors, door openers, programme switch and locking bolt switch contact.

\*2) Concealed cable installation 230 V / 50 Hz

#### **Direct fixing**



\*1) Concealed cable installation for sensors, door openers, programme switch and locking bolt switch contact.

\*2) Concealed cable installation 230 V / 50 Hz

#### Installation dimensions for safety sensors GC 334

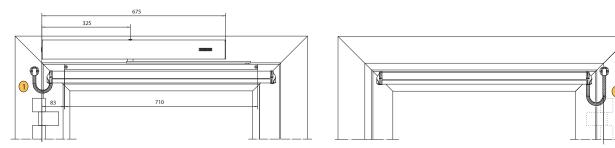
Attaching the sensors (for EMD head mounting, at hinge end)

#### Safety sensor "Open"

mounted at the hinge end

#### Safety sensor "Close"

mounted at the end opposite the hinge



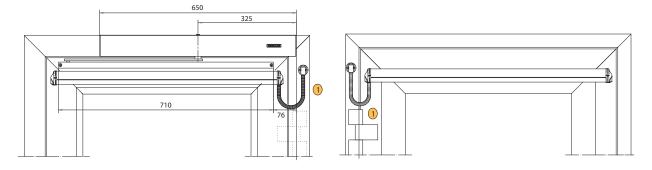
Attaching the sensors (for EMD head mounting, at end opposite the hinge)

#### Safety sensor "Close"

mounted at the end opposite the hinge

#### Safety sensor "Open"

mounted at the hinge end

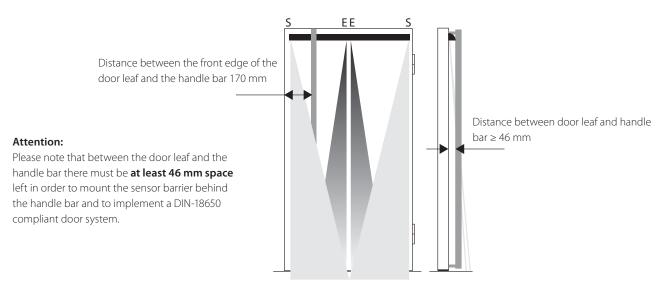


1 Optional power feed, concealed installation is also possible. Drilled hole Ø 10 for concealed cable installation

Representation: DIN left- DIN right: Mirror image

#### Sensor barrier with handle bar

- 1. The sensor barrier should be mounted in such a way that the handle bar is located between the transmitter (T) and the receiver (R).
- 2. The angle should be selected in such a way that the handle bar is not in the IR field.
- 3. The door is secured according to DIN 18650.



#### Cable plan for EMD/EMD-F, single leaf

MS	Main switch (optional)
EMER- GENCY	Emergency off switch (optional)
IB	Interrupter button CLOSE DOOR
CA	Contactor authorised
PS	Programme switch
ST	Emergency stop
IC	Inner contactor
EC	External contactor
DO	Door opener
LM	Locking message
SS	Smoke switch
SSCU	Smoke switching control unit
TS	Door closer
МС	Magnet contact

Drawing number 70106-9-0971, Page 1

See circuit diagram 70106-9-0970, 107579

#### Safety precautions:

Cable should be laid in accordance with VDE 0100

Cable for drive should be left to protrude at least 1,500 mm from the wall

#### Cable:

(1) NYM-J 3 x 1.5 mm <sup>2</sup>	
(2) I-Y(ST)Y 1 x 2 x 0.6 LG	
(3) I-Y(ST)Y 2 x 2 x 0.6 LG	
(4) I-Y(ST)Y 4 x 2 x 0.6 LG	
(5) LiYY 2 x 0.25 mm <sup>2</sup>	
6 LiYY 4 x 0.25 mm <sup>2</sup>	

- Door transition cable (scope of delivery sensor barrier)
   Cable installation by drilling a hole through the door leaf is not permitted with fire proof doors.
- 2) Cable outlet for door drive, see installation drawings for Slimdrive EMD/EMD-F 70106-ep01 through -ep04
  3) Cable in scope of delivery of sensor
- 4) Mount close to door

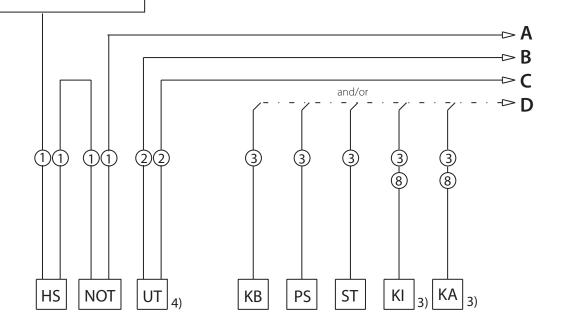
Note:

- 5) Power supply connection socket W x H x D min. 65 x 65 x 57 mm With PG-11 introduction, on site
- 6) Power supply connection socket W x H x D min. 94 x 65 x 57 mm With PG-11 introduction, on site
- 7) For example, door transmission cable 8-core, material number 066922
- 8) Branching box, on site

Fuse 10A (building)

Power supply line 230V / 50Hz

- (7) Scope of delivery for sensor barrier or LiYY 5 x 0.25 mm<sup>2</sup>
- (8) Install taut wire in empty piping, internal diameter 10 mm



Connection value 230W 1A

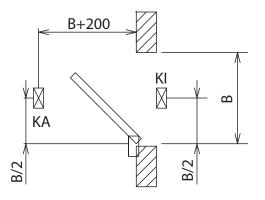
Swing door systems GEZE Slimdrive EMD

#### Cable plan for EMD/EMD-F, single leaf

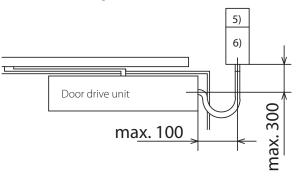
#### Drawing number 70106-9-0971, Page 1

See circuit diagram 70106-9-0970, 107579

#### Positioning of the motion detector

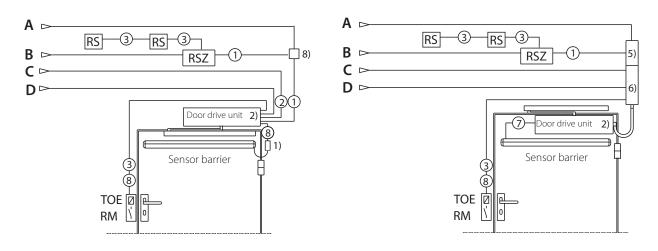


Positioning of the connection socket for door leaf mounting



Head mounting, single leaf

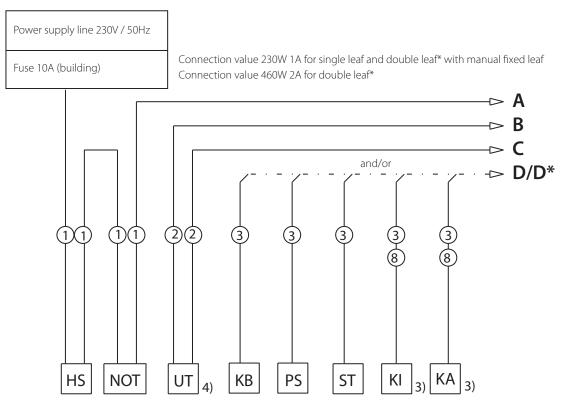
Door leaf mounting, single leaf



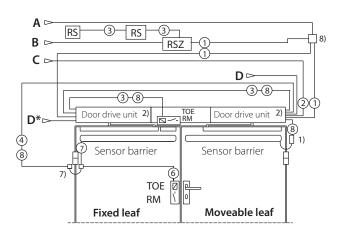
#### Cable plan for EMD/EMD-F, double leaf

#### Drawing number 70106-9-0971, Page 2

See circuit diagram 70106-9-0970, 107579

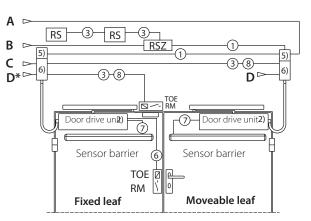


Head mounting, double leaf\*

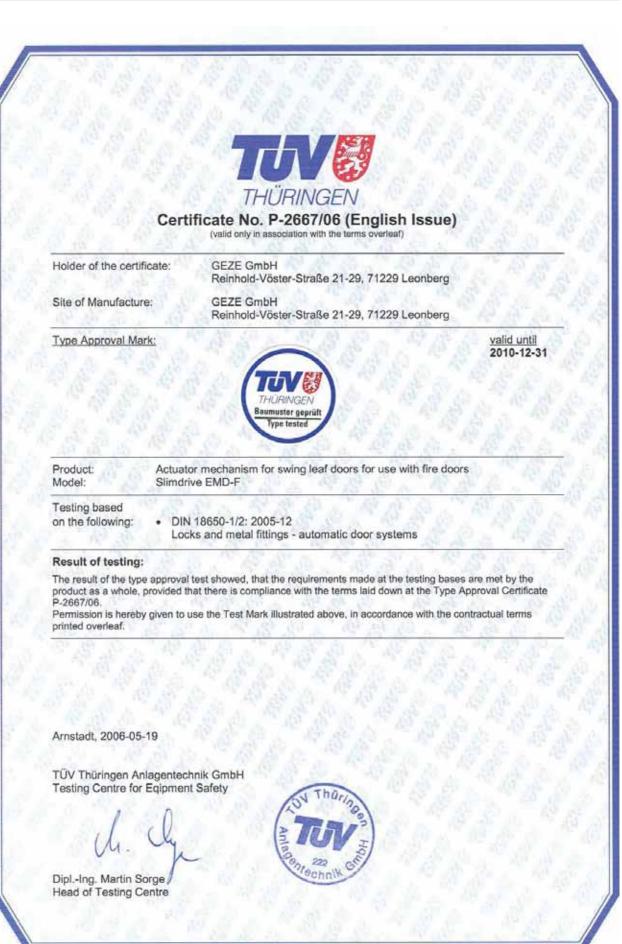


\* Integrated mechanical closing sequence control is necessary

Door leaf mounting, double leaf\*



THÜRINGEN Certificate No. P-2657/06 (English Issue) (valid only in association with the terms overleaf)			
		Holder of the certificate:	GEZE GmbH Reinhold-Vöster-Straße 21-29, 71229 Leonberg
		Site of Manufacture:	GEZE GmbH Reinhold-Vöster-Straße 21-29, 71229 Leonberg
<u>Type Approval Mark:</u>	valid until 2010-12-31 THURINGEN Baumuster geprüft Type tested		
	or mechanism for swing leaf doors		
	18650-1/2: 2005-12 ks and metal fittings - automatic door systems		
product as a whole, provided th P-2657/06.	test showed, that the requirements made at the testing bases are met by the hat there is compliance with the terms laid down at the Type Approval Certificate use the Test Mark illustrated above, in accordance with the contractual terms		
Arnstadt, 2006-05-19			
TON THREE A STORAGE	hnik GmbH t Safety		
TÜV Thüringen Anlagentec Testing Centre for Eqipmen	A Thuringer		



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