



CONVENIENT OPENING AND CLOSING OF DOORS

GEZE ECturn – THE SWING DOOR DRIVE



GEZE

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studio be, Greven, Germany

INTRODUCTION

Convenient opening and closing of doors

The automatic door systems from GEZE open up an almost unlimited range of door design options. The most modern of innovative drives in which high performance capability, security, and convenience are of priority, coupled with first-class design, go towards ensuring that GEZE in Germany is the market leader for automatic door solutions.

With ECTurn, GEZE completes the product range for swing doors with a new electro-mechanical swing door drive which meets the highest of technical, safety relevant and design requirements. ECTurn makes life simpler and easier – particularly for persons in need of extreme care, for example, those who have difficulty walking or small children.

The new ECTurn swing door drive is used to quietly and conveniently open doors automatically or manually and close them automatically. Designed for use in interiors in which barrier-free access is important, the ECTurn is the ideal solution for room doors in hospitals, care institutions and assisted housing, as well as in high class hotels and also in private home construction. The GEZE ECTurn can be operated both in low energy mode as well as in automatic mode in accordance with DIN 18650.

For particularly sensitive groups of users, the ECTurn is able to offer additional protection. Additional safety sensors can be connected simply and quickly in any instance. The necessary interfaces are already available as standard in the drive.

GEZE offers comprehensive service – fast and competent.

**BENEFITS
FOR ALL TARGET GROUPS**



DIN 18650



Benefits for planners and builders

- Extremely quiet, electro-mechanically operated swing door drive that meets the requirements made of barrier-free construction
- Extremely flexible as it can be used for all types of mounting
- Safety sensors can be used as standard (no additional board or other control equipment necessary)

Benefits for the users

- High level of access convenience
- Flexible operation (manual operation, automatic or supported opening)
- Automatic reversion on recognising a disability
- When using the optional battery, automatic opening in the event of a power failure is also possible
- The drive can also be controlled via radio

Benefits for the processors

- Ready to plug cabling
- Simple adjustment options
- Easy installation



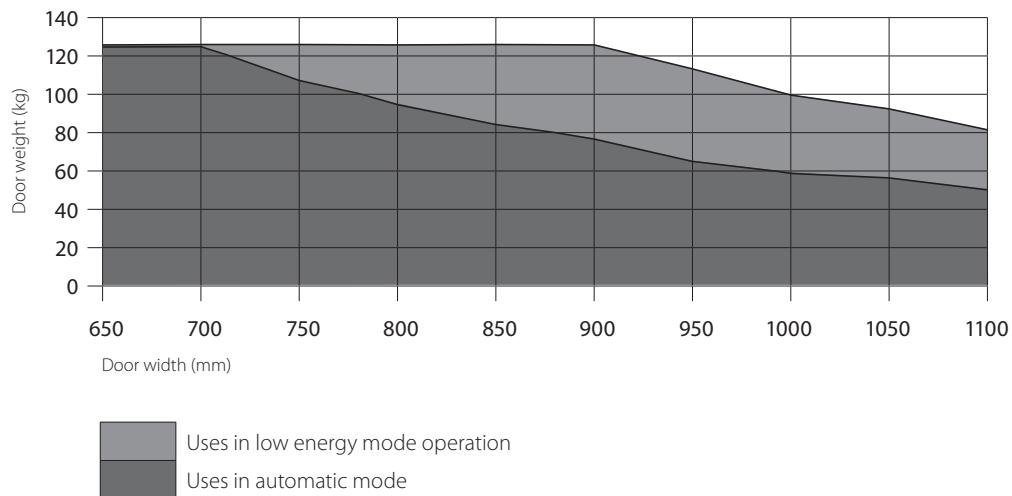
EXAMPLES OF TYPES OF USE

The GEZE ECTURN swing door drive makes life easier, particularly when it comes to persons in need of extreme care, for example, those who have difficulty walking or small children, the drive offers indispensable assistance and considerable convenience.

- In the hotel and restaurant trade
- In the health and care sector
- In educational establishments, for example, schools, nursery schools and day care centres
- In leisure establishments, for example, swimming pools, spas, sport and fitness centres
- In administrative and public buildings
- In high class home and house construction



The ECTURN meets all of the requirements made of barrier-free construction and living!

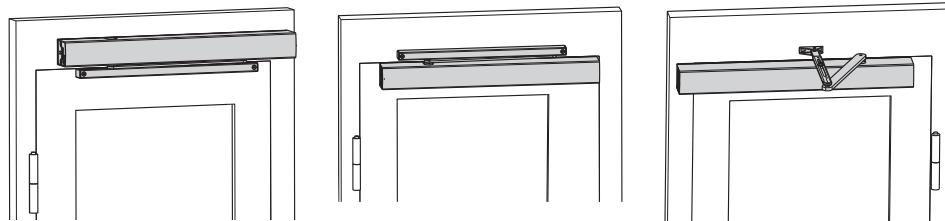
USES

In low energy mode, the drive moves the swing door at a reduced speed and thus fulfils the safety level of DIN 18650. Securing with safety sensors is only necessary in individual instances according to the intended circle of users.

In automatic operation the swing area of the door must always be secured with safety sensors.

OVERVIEW OF ASSEMBLY TYPES

A swing door drive for all applications **inside**. The GEZE ECTURN is extremely flexible and can be used with all opening types, and of course with DIN left and DIN right doors.

Mounting at the hinge end**Head mounting with guide rail**

max. body depth: 40 mm
 max. door projection: 40 mm

Door leaf mounting with guide rail

max. door projection: 50 mm

Door leaf mounting with rod

max. door projection: 200 mm

Mounting at the end opposite the hinge**Head mounting with rod**

max. body depth: 200 mm

Head mounting with guide rail

max. body depth: 30 mm

Door leaf mounting with guide rail

max. body depth: 20 mm

The GEZE ECTurn component in overview

Components	ECTurn
① Control unit	●
② Motor	●
③ Gears	●
④ Power supply	●
⑤ Power connection with cable and plug	●
Battery	○
Radio board	○
Door transition cable for door leaf mounting	○

● = Standard

○ = Option



PRODUCT BENEFITS AND OPTIONS

	ECTurn
Drive dimensions (W x H x D)	580 x 60 x 60 mm
Drive weight	3 kg
Power supply	110-230 V AC / 50-60 Hz
Power consumption	75 W
Power supply for peripheral devices 24 V DC	600 mA
Max. leaf weight	125 kg
Min. leaf width	650 mm
Max. leaf width	1,100 mm
Max. door opening angle	110°
Time held open	Adjustable from 5-30 seconds
Functions	Automatic Low energy
	Automatic system with Push&Go function
Operating modes	Automatic Night Permanently open
Actuation delay	Adjustable up to 10 seconds
Temperature range	-15 up to +50 °C
Protection type	IP 20
Acoustic warning alarm via Summer	Adjustable
Battery	○
Radio control	○

● = Standard

○ = Option

FUNCTION PROGRAMME

The ECTurn is a fully automatically operating drive which opens and closes single action swing doors using electricity. It can be controlled via any type of sensor, for example, radar or button. When using the optional radio board, the entire range of the GEZE radio programme can be used.

The operating modes described below can either be set via the integrated programme switch or using the GEZE TPS button programme switch. The current mode is shown in the appropriate colour on the built-in LED.

Programme function	Description
Automatic	 The door opens as soon as it is triggered and closes again after a certain time, which can be adjusted.
Permanently open	 The door moves to the OPEN position and remains open.
Night	 The drive is switched off. The door can be opened and closed by hand.
Off	 Drive and sensors are switched off. The door can be moved manually.

The operation of the GEZE TPS is carried out electronically via push buttons. In the TPS-SCT version, the programme switch can be locked and selection of the operating mode can only be carried out by authorised persons.

Optimum securing of automatic drives

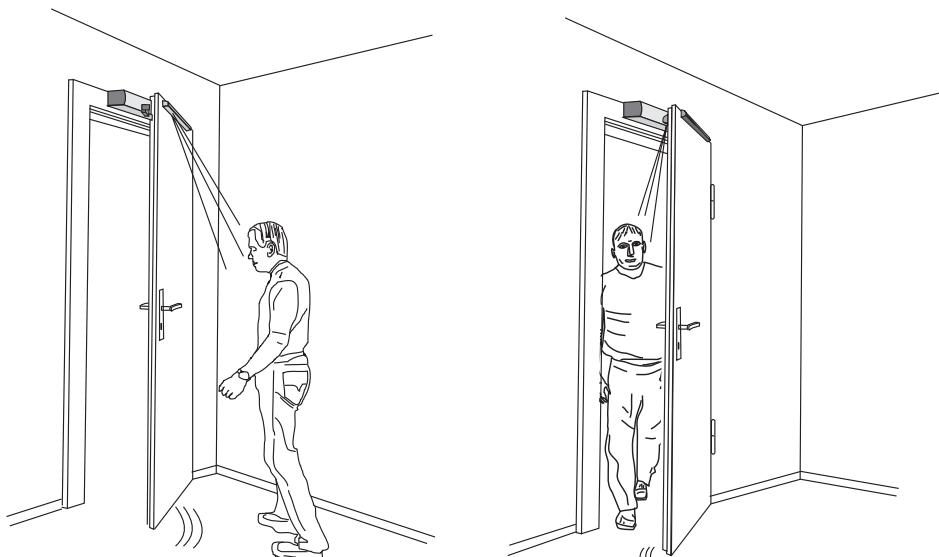
GEZE PRESENCE SENSORS

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 infrared light. Electromagnetic waves, invisible to the naked eye, are cast by a transmitter onto persons or objects located in the recognition field. A receiver uses the reflected infrared beams and converts them into an electrical signal that is sent to the control unit of the door drive.

- The door movement is stopped in the opening direction as soon as the sensor system registers an obstacle. Wall blanking of the safety sensors is possible (can be learned).
- In the closing direction, the sensor system 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, foot 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 GEZE radio programme



Hygienically one step ahead - the GEZE AIR 12 Cleanscan proximity switch

AIR 12 CLEANSAN

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.

- Simple and time effective assembly; fits in an in-wall casing thanks to the compact dimensions of 86 x 86 x 12 mm (Width x Height x Depth) and the optimum system construction
- Easy connection type using push/screw terminals
- Operating voltage 12-30 V DC/12-24 V AC
- Protection class IP 50/65 (without/with seal) also for clean rooms with the highest hygiene requirements
- Operating temperature of -20° through to +60° C
- Humidity 0-90% relative, non-condensing
- Authorisations: CE according to EMC directive 89/336 EEC

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 easily 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



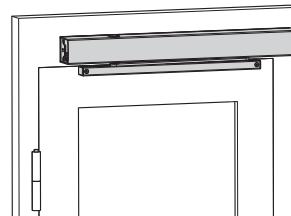
The GEZE radio programme is safe! The encryption of the radio signals using a rolling code with up to 74 trillion code combinations means that taught radio transmitters cannot be "cracked". Each transmitter is taught individually and safely to eliminate false or unauthorised radio control. The radio 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 can, in particular, be used for the GEZE ECTURN swing door drive.

Mounting at the hinge end

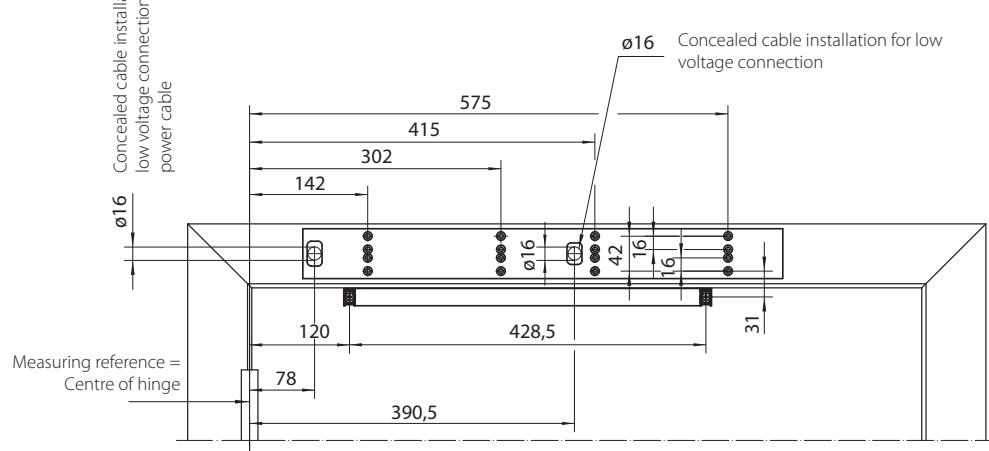
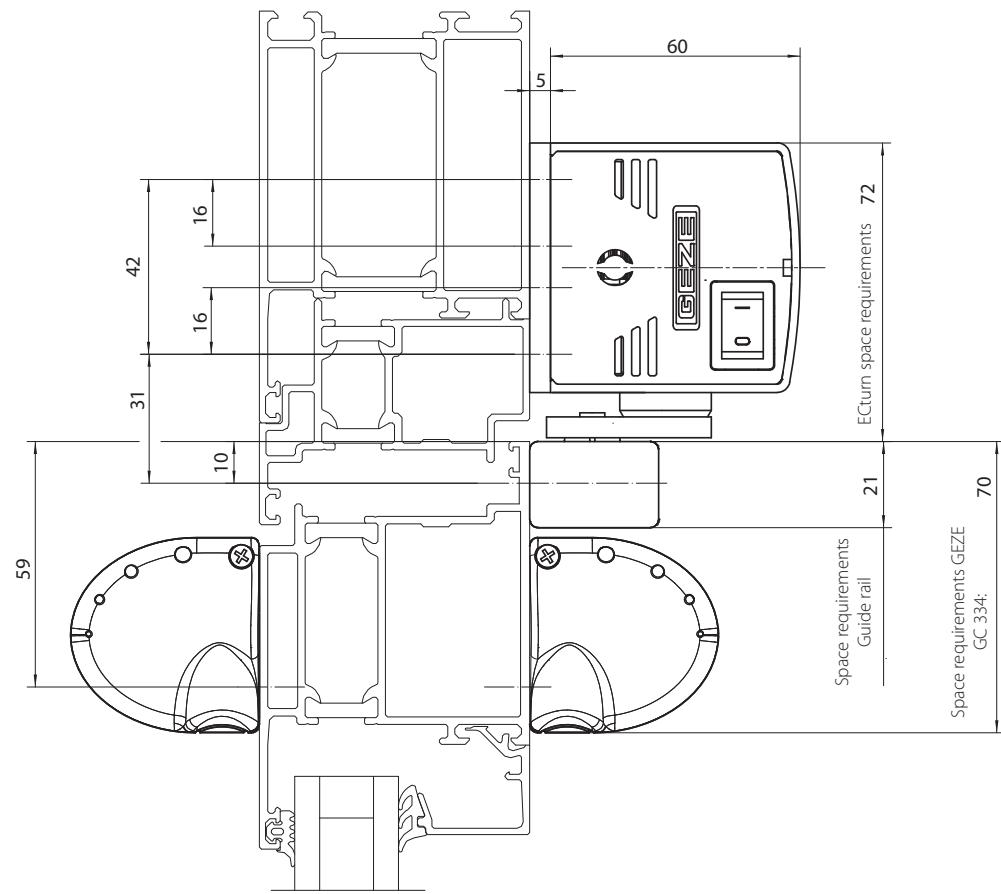
Drawing number 70107-ep01

Fixing with mounting plate



Head mounting with guide rail

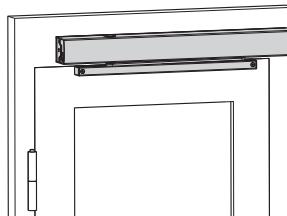
max. body depth: 40 mm
max. door projection: 40 mm



Mounting at the hinge end

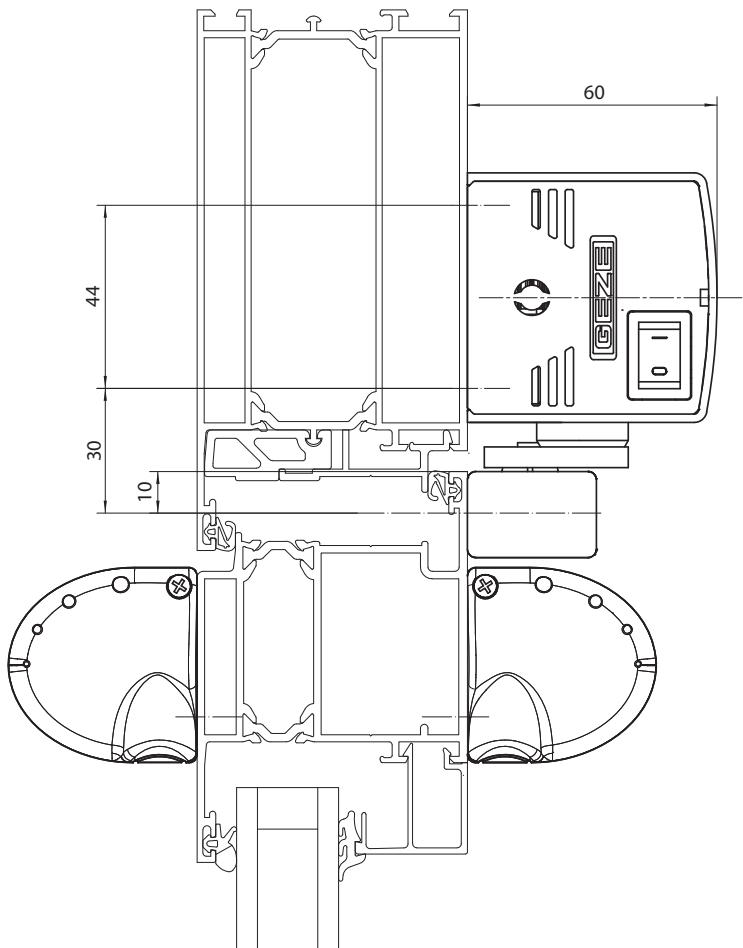
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Direct fixing

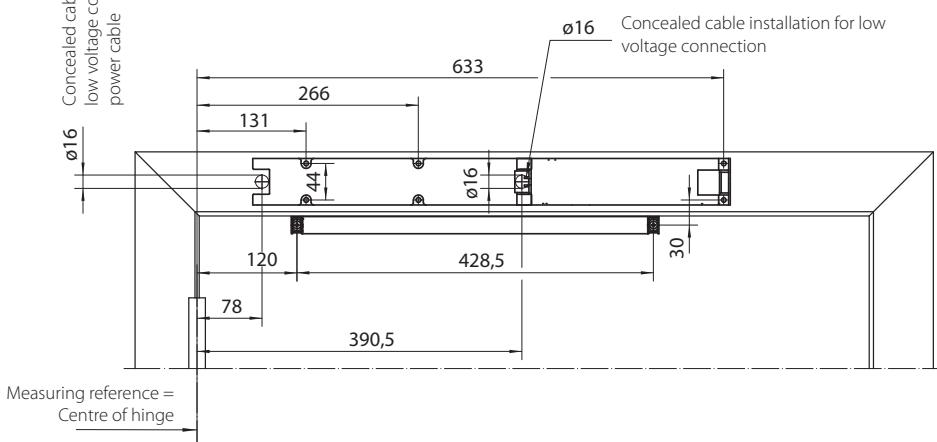


**Head mounting
with guide rail**

max. body depth: 40 mm
max. door projection: 40 mm



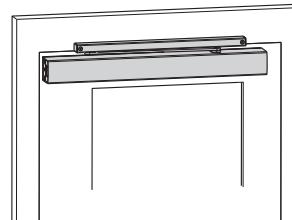
Concealed cable installation for
low voltage connection and
power cable



Mounting at the end opposite the hinge

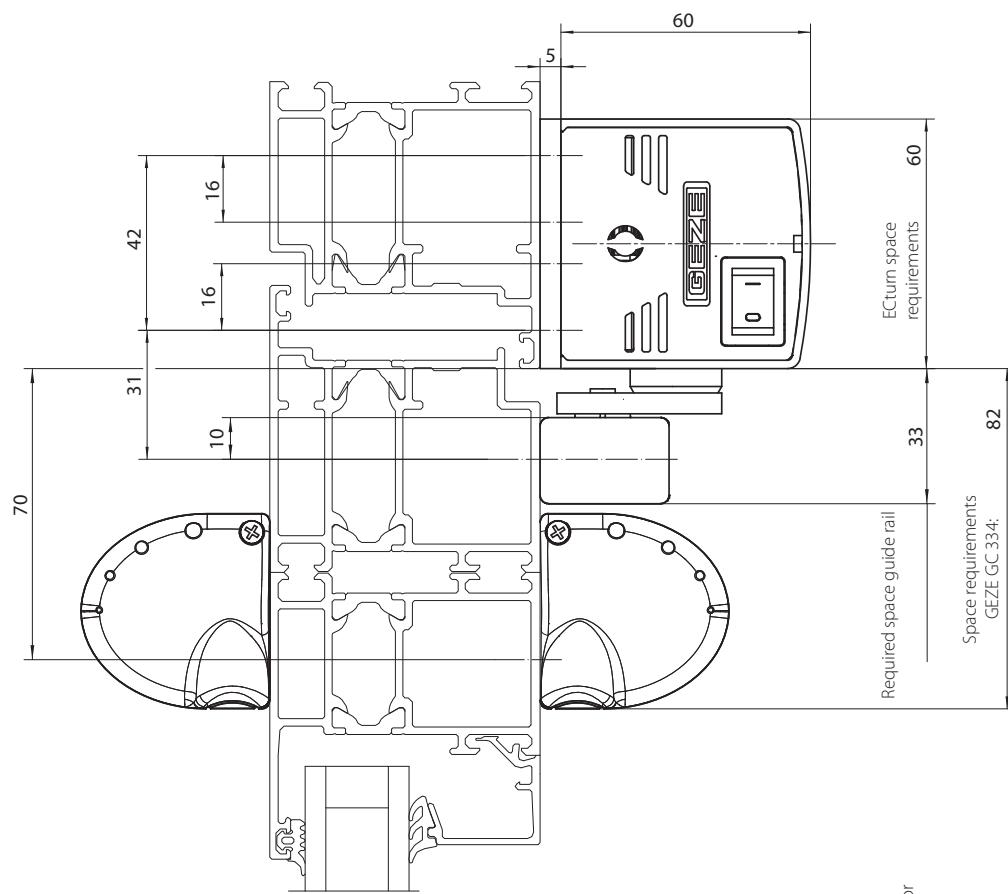
Drawing number 70107-ep02

Fixing with mounting plate

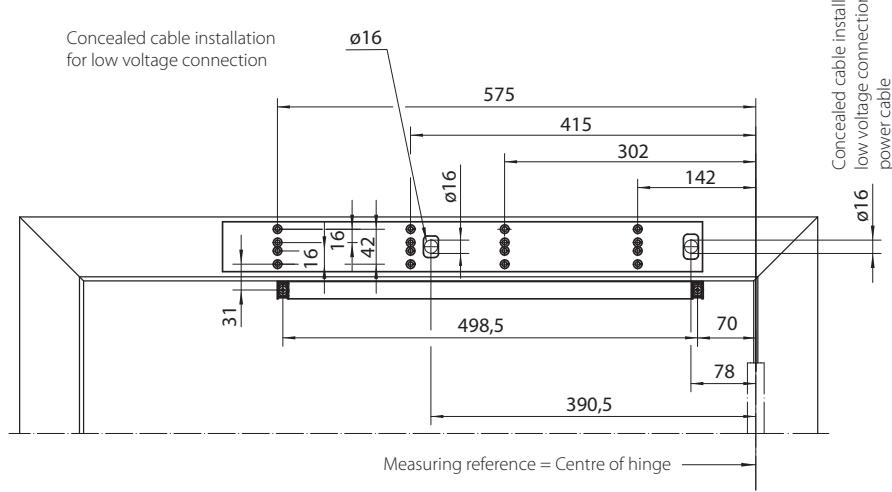


Head mounting
with guide rail

max. body depth: 20 mm



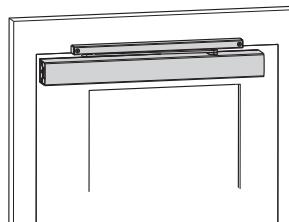
Concealed cable installation
for low voltage connection



Mounting at the end opposite the hinge

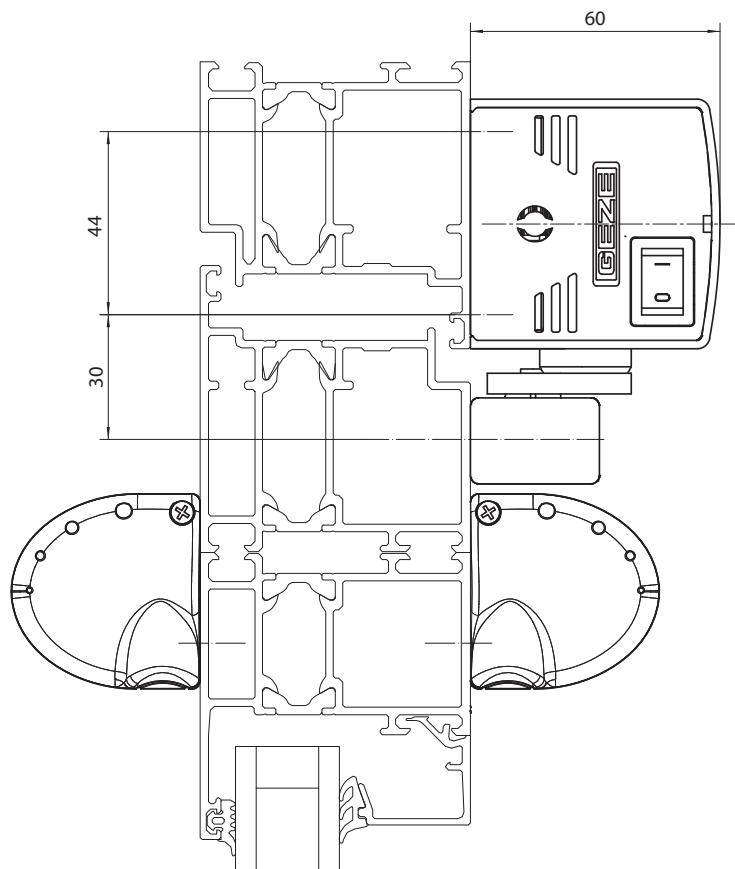
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Direct fixing



Head mounting with guide rail

max. body depth: 20 mm

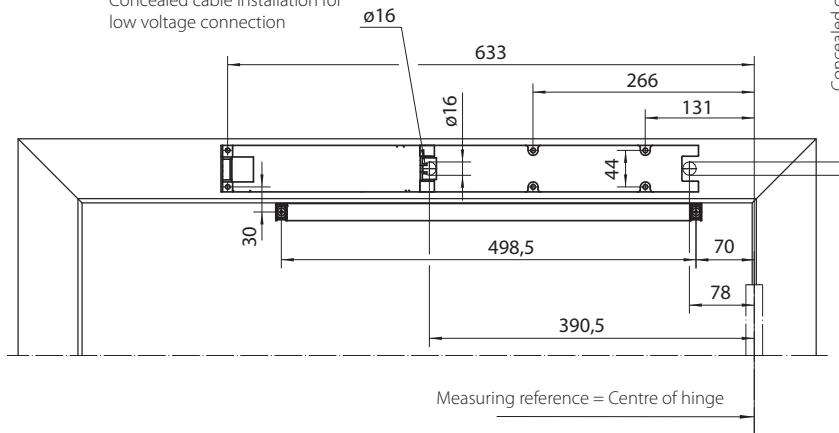


Concealed cable installation for low voltage connection

ø16

Concealed cable installation for low voltage connection and power cable

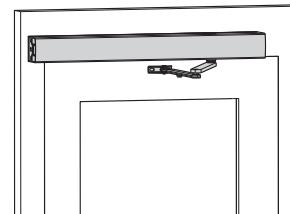
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Mounting at the end opposite the hinge

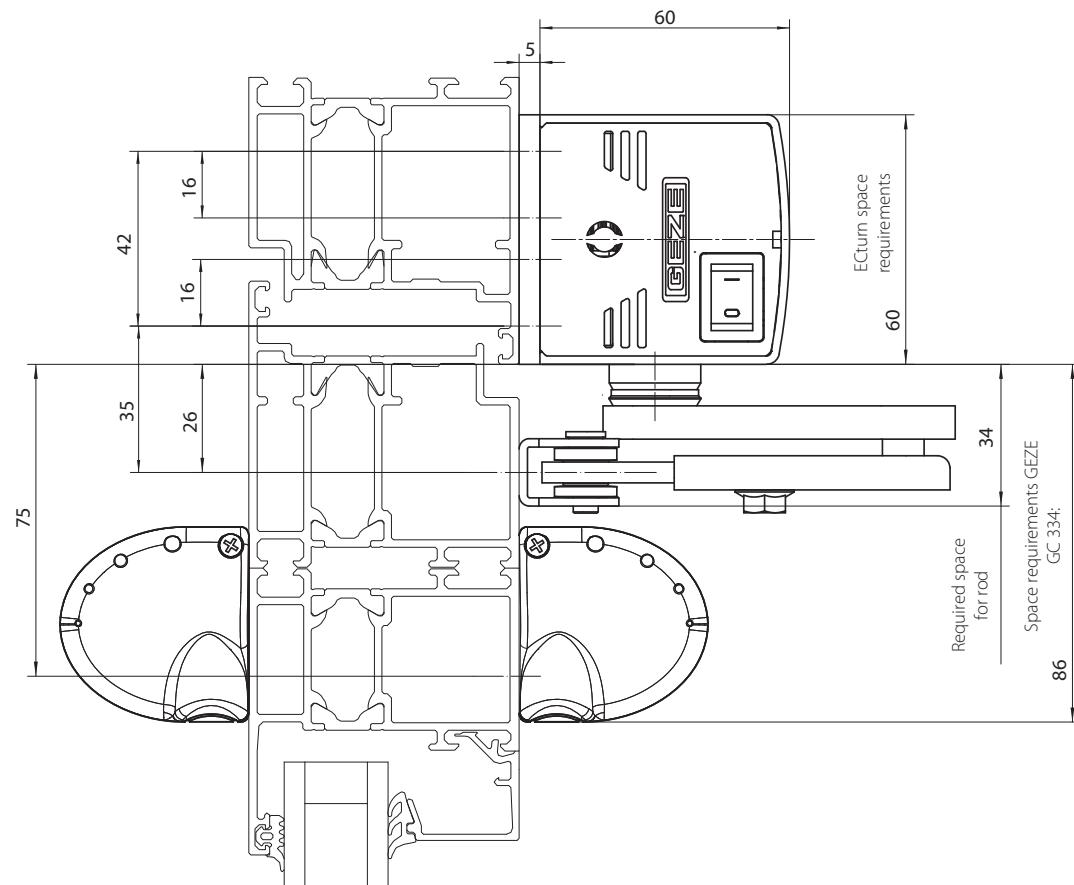
Drawing number 70107-ep03

Fixing with mounting plate



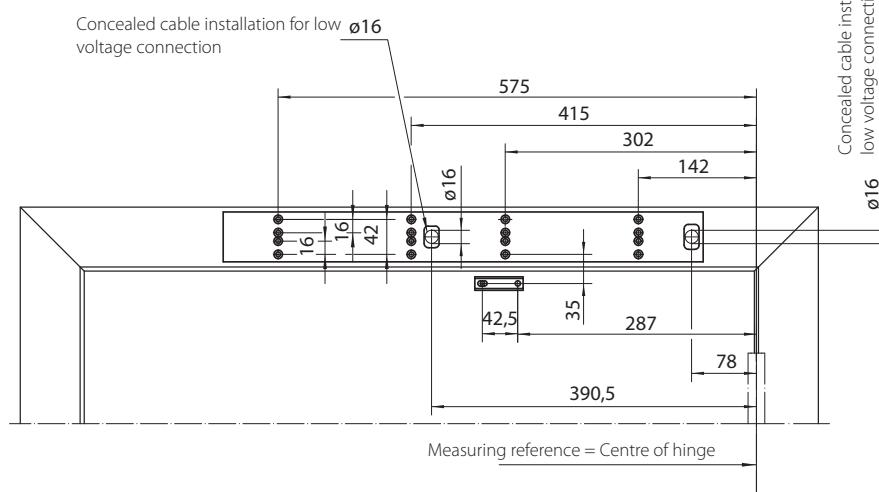
Head mounting
with rod

max. body depth: 200 mm



Space requirements GEZE:
GC 334:
86

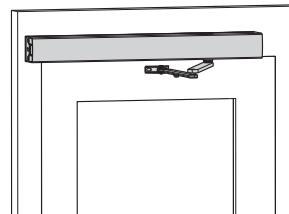
Concealed cable installation for
low voltage connection
power cable



Mounting at the end opposite the hinge

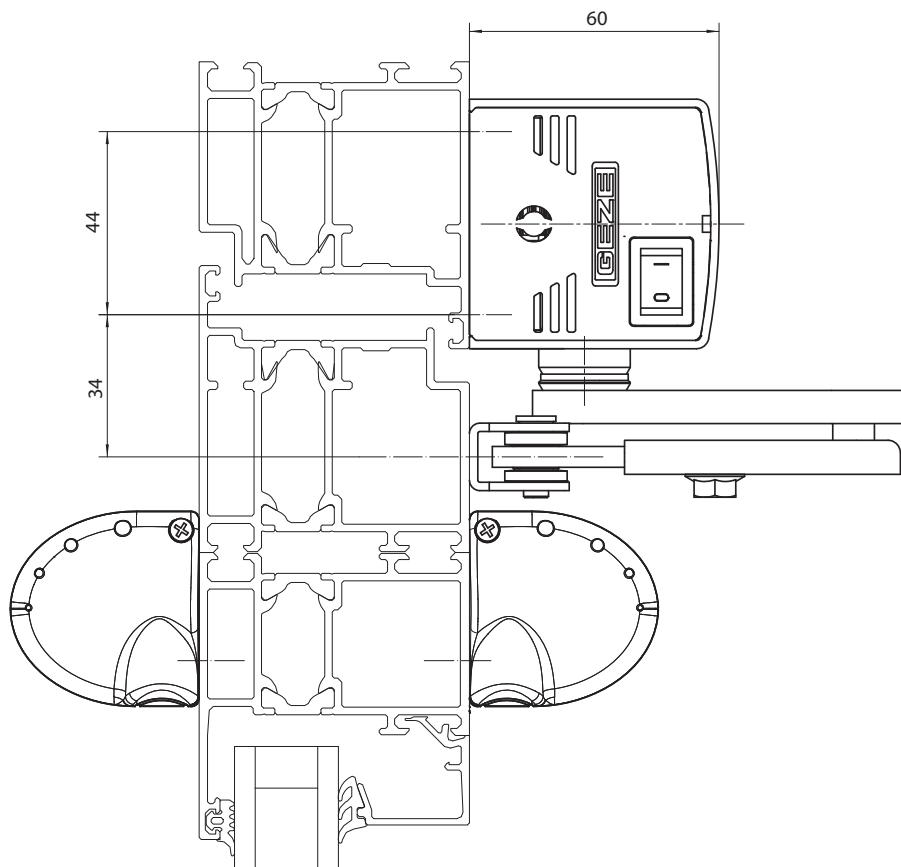
Drawing number 70107-ep03

Direct fixing

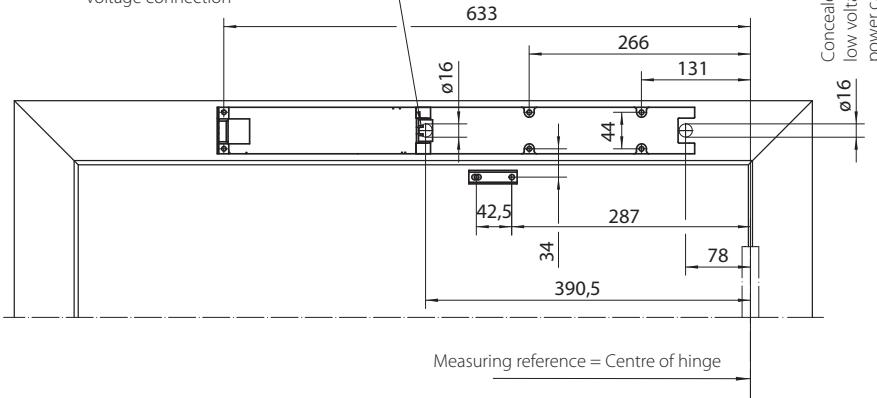


**Head mounting
with rod**

max. body depth: 200 mm



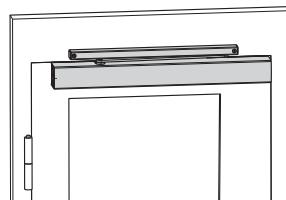
Concealed cable installation for low voltage connection



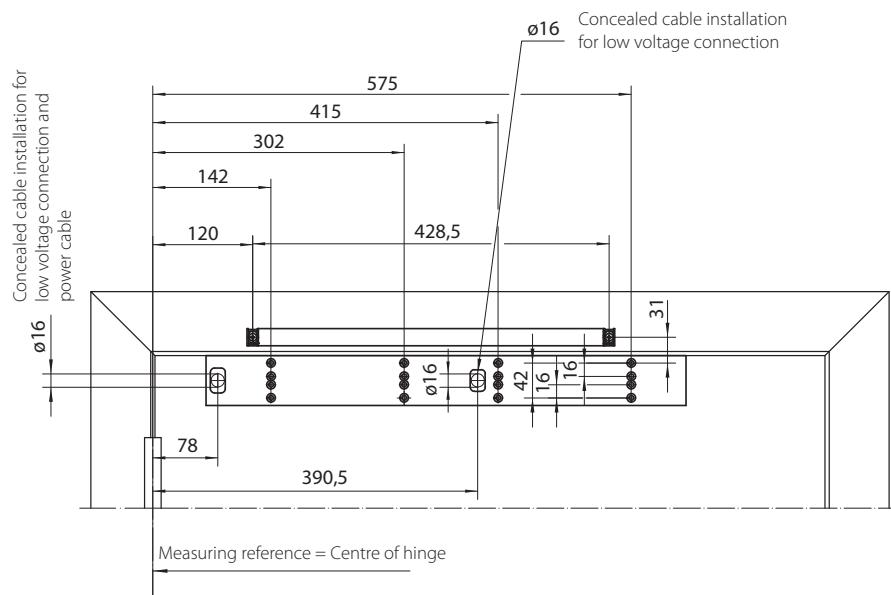
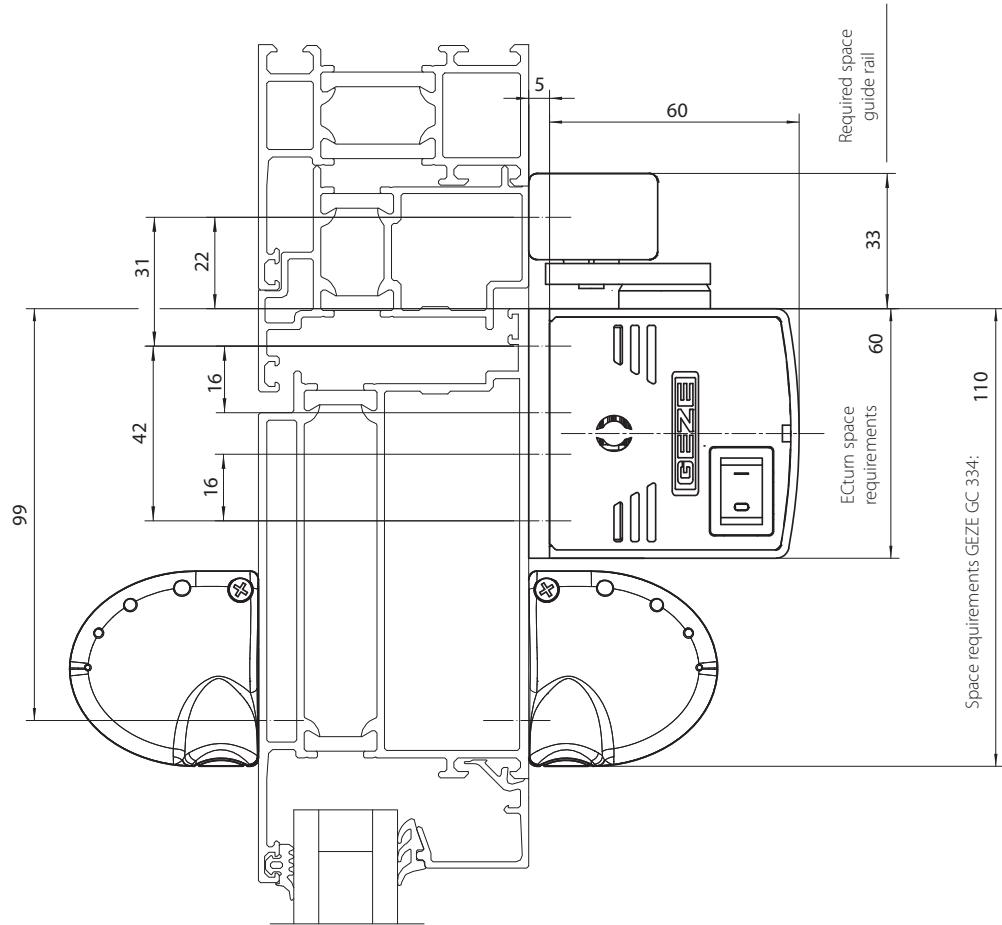
Concealed cable installation for
low voltage connection and
power cable

Mounting at the hinge end

Drawing number 70107-ep04

Fixing with mounting plate**Door leaf mounting with guide rail**

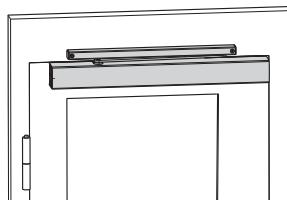
max. door projection: 50 mm



Mounting at the hinge end

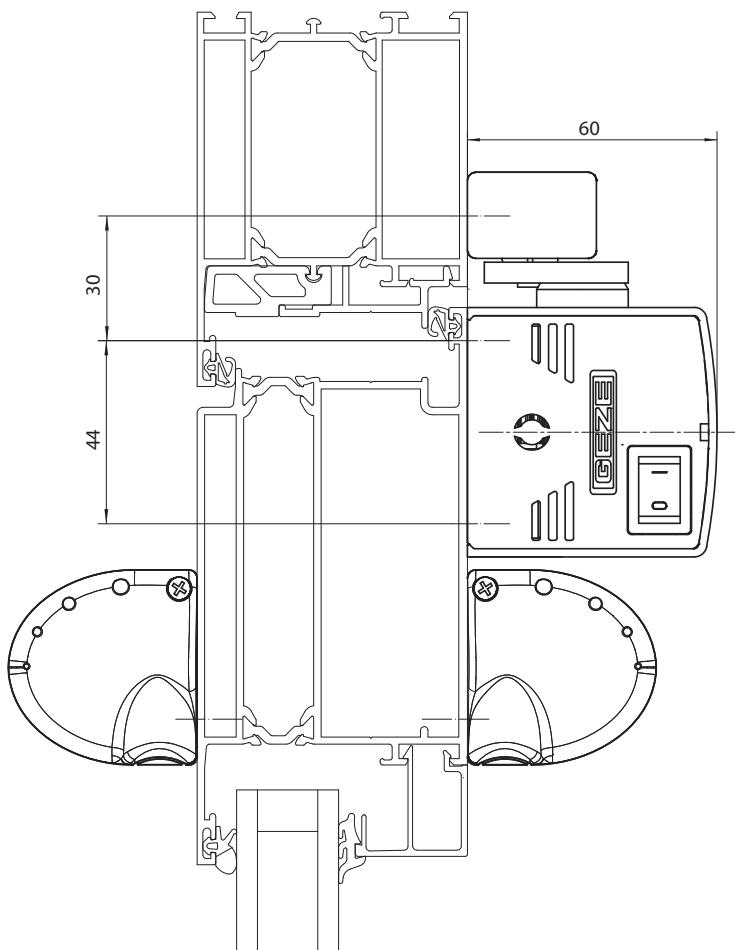
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Direct fixing

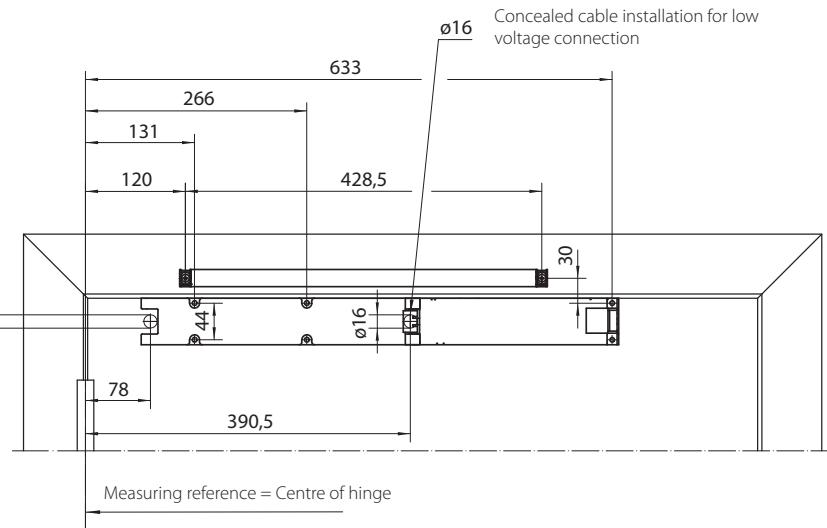


Door leaf mounting with guide rail

max. door projection: 50 mm



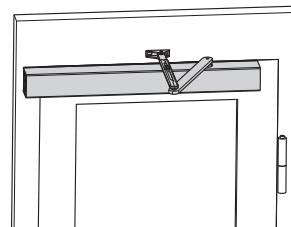
Concealed cable installation for low voltage connection and power cable



Mounting at the hinge end

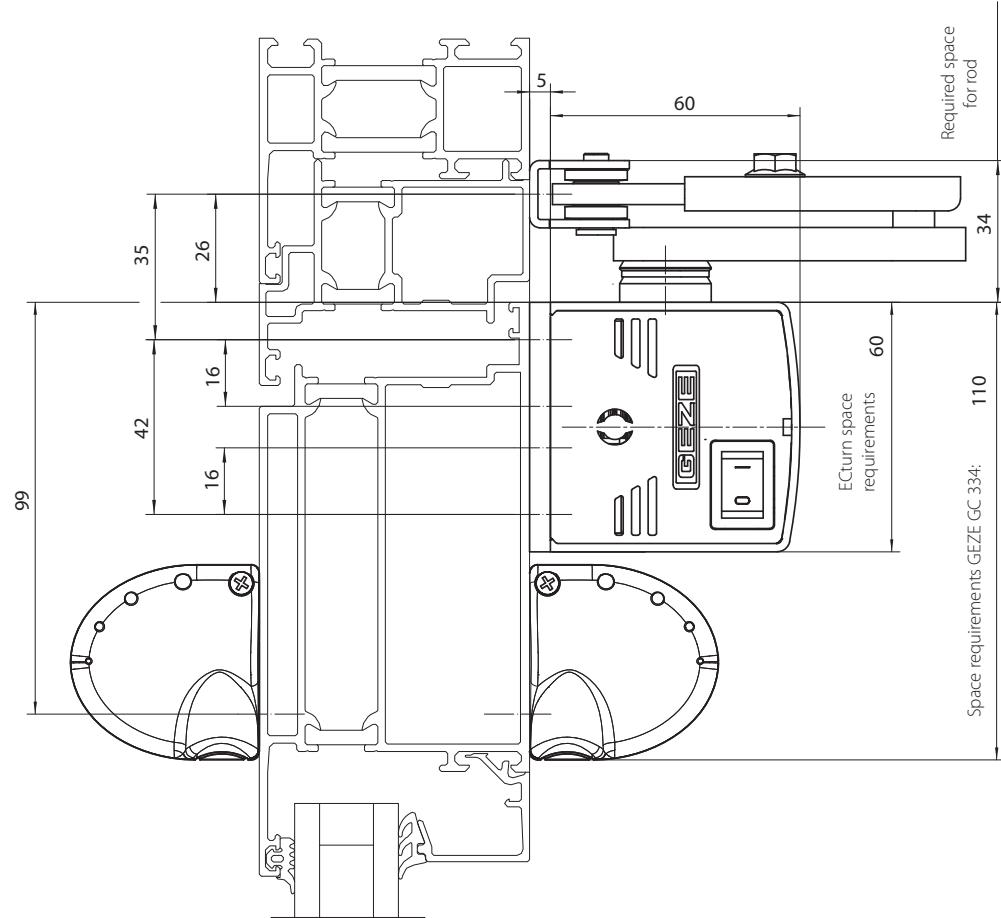
Drawing number 70107-ep06

Fixing with mounting plate

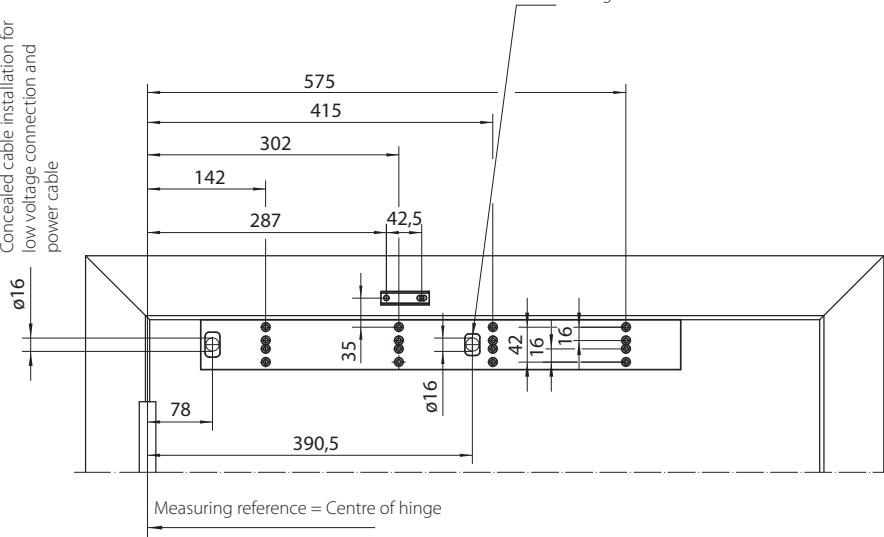


Door leaf mounting with rod

max. door projection: 200 mm



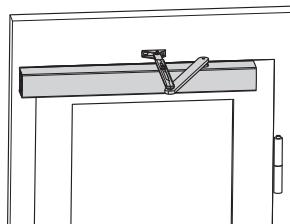
Concealed cable installation for low voltage connection and power cable



Mounting at the hinge end

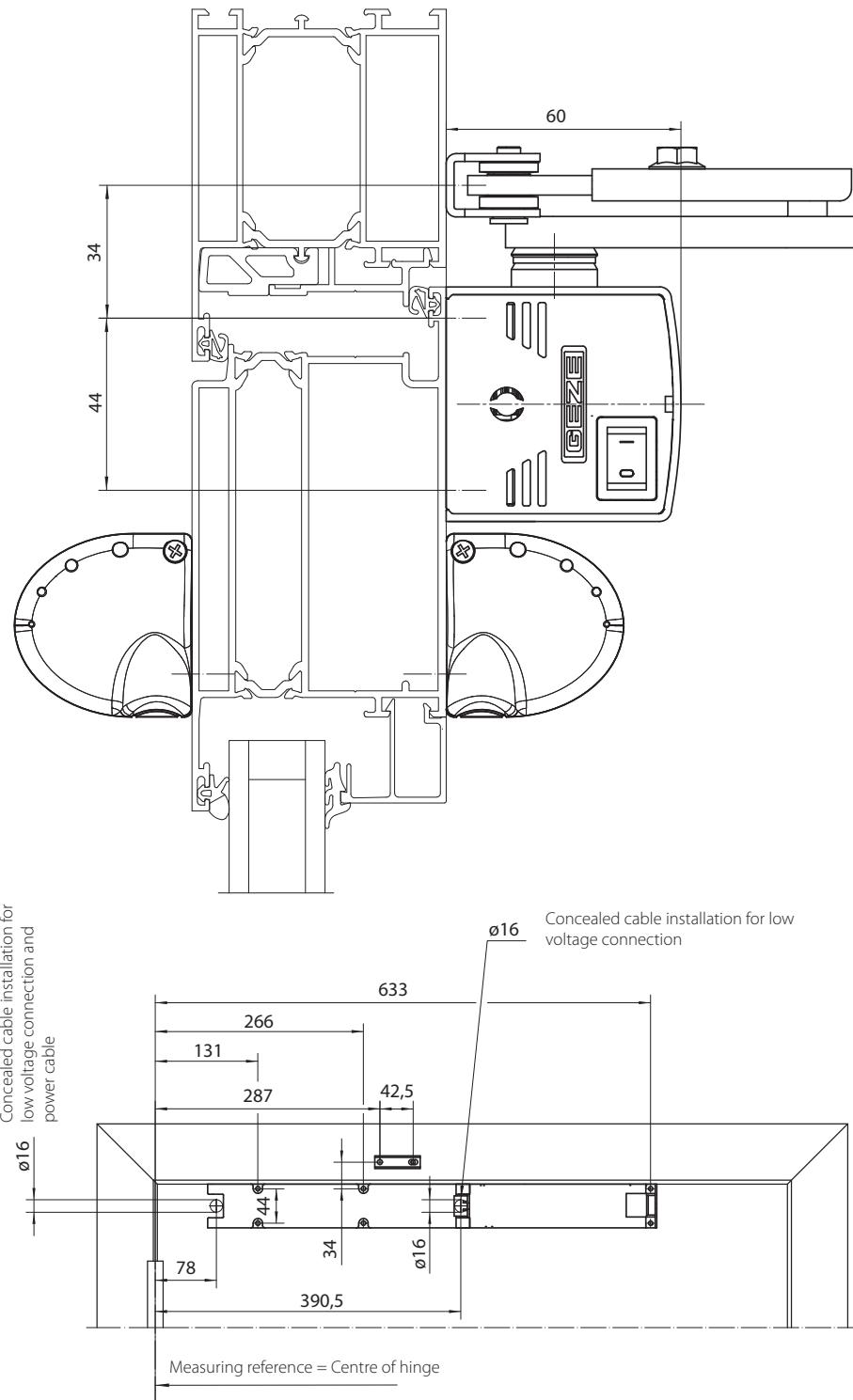
Drawing number 70107-ep06

Direct fixing



Door leaf mounting with rod

max. door projection: 200 mm



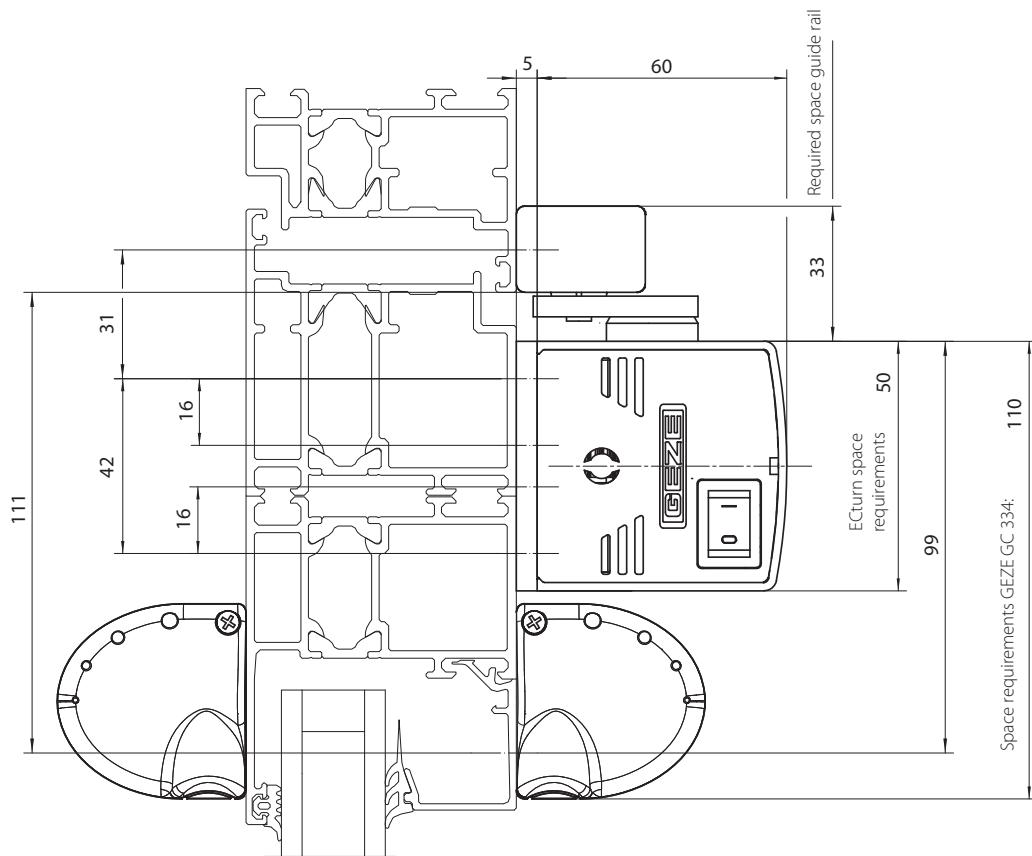
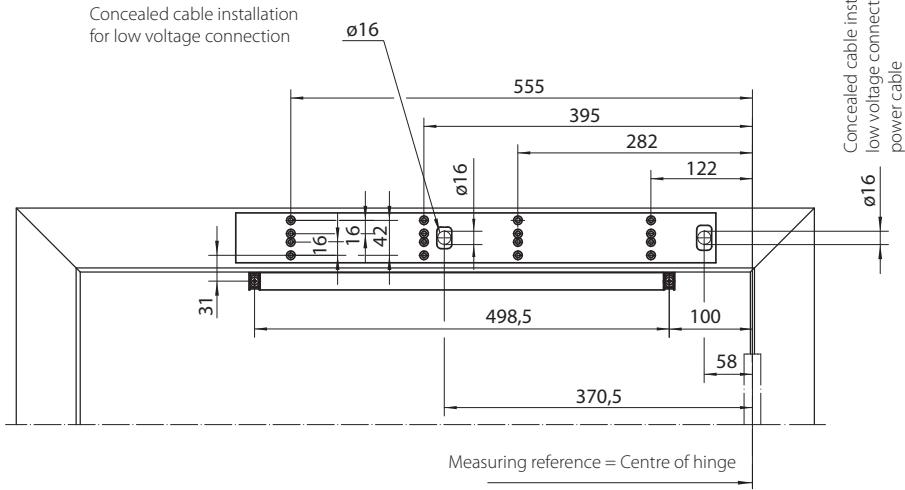
Mounting at the end opposite the hinge

Drawing number 70107-ep05

Fixing with mounting plate

Head mounting
with guide rail

max. body depth: 30 mm

Concealed cable installation
for low voltage connectionConcealed cable installation for
low voltage connection and
power cable

Mounting at the end opposite the hinge

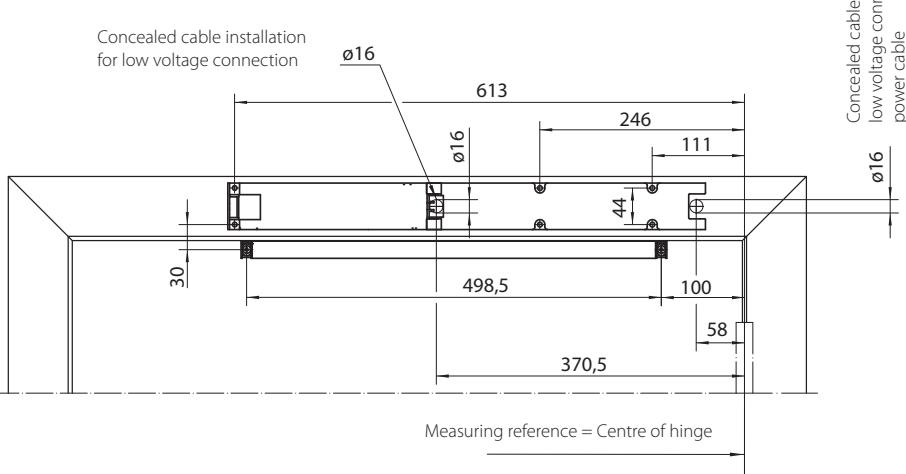
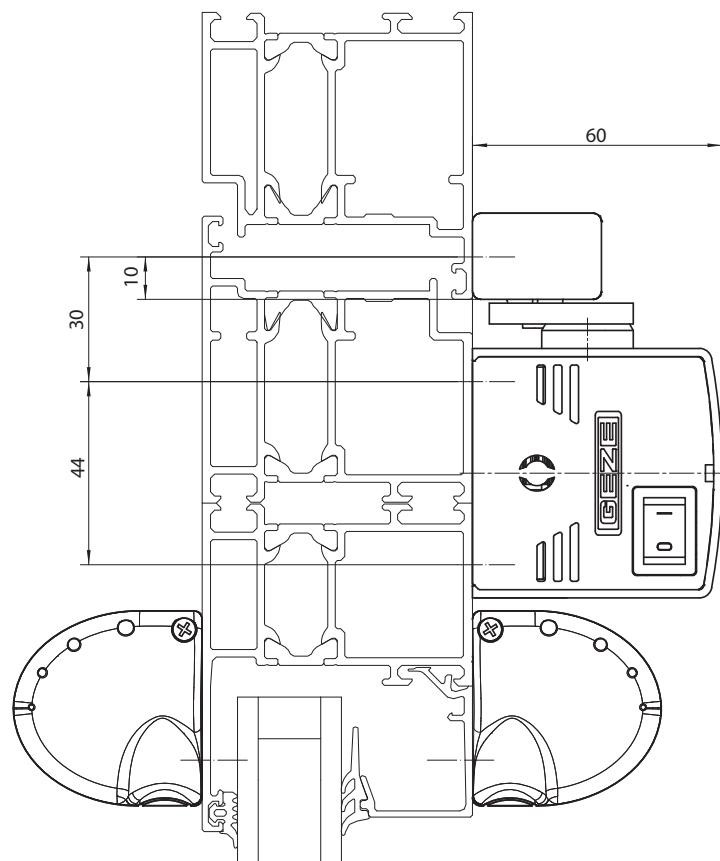
Drawing number 70107-ep05

Direct fixing



Head mounting with guide rail

max. body depth: 30 mm



Cable plan for ECTurn

MS	Main switch (optional)
EMERGENCY	Emergency off switch (optional)
CA	Contactor authorised
PS	Programme switch
ST	Emergency stop
IC	Inner contactor
EC	External contactor
DO	Door opener
LM	Locking message

Note:

- 1) Door transition cable (scope of delivery sensor barrier)
- 2) Cable outlet for door drive, see installation drawings for ECTurn 70107-ep01 through -ep06
- 3) Cable in scope of delivery of sensor
- 4) and 5) Combined building-side connection socket for feed and control cabling. Power cables and control cables must be wired in separate junction boxes.
- 4) Power supply connection socket
WxHxD min. 65 x 65 x 57 mm
- 5) Control cable connection socket
WxHxD min. 94 x 65 x 57 mm with PG-11 feed

Drawing number 70107-9-0962

See circuit diagram 70107-9-0951, 134079

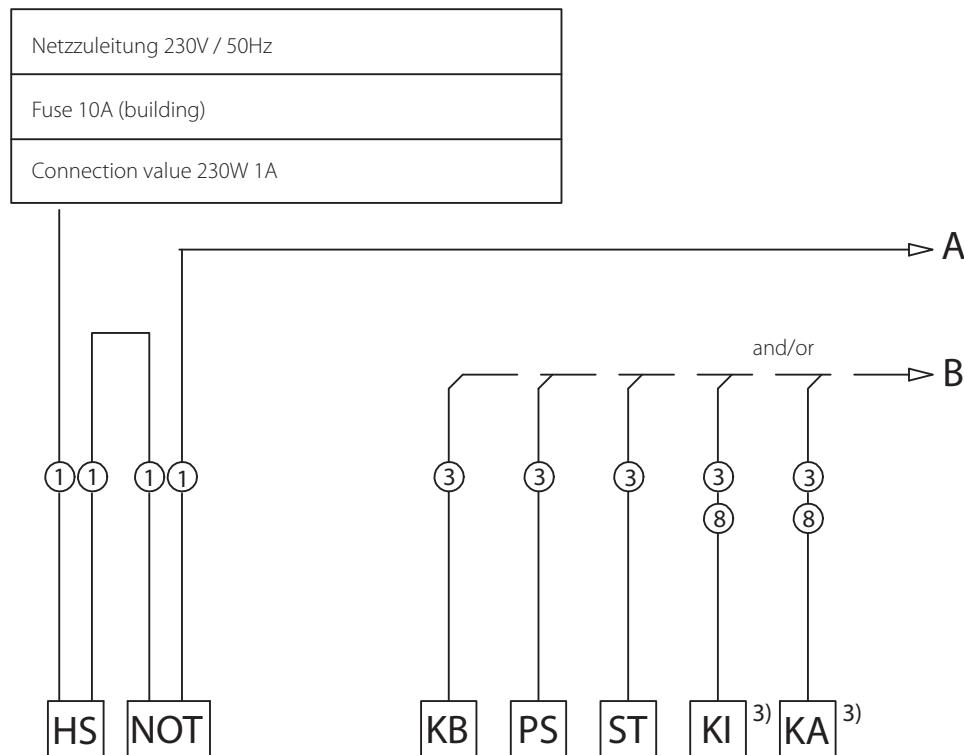
Safety precautions:

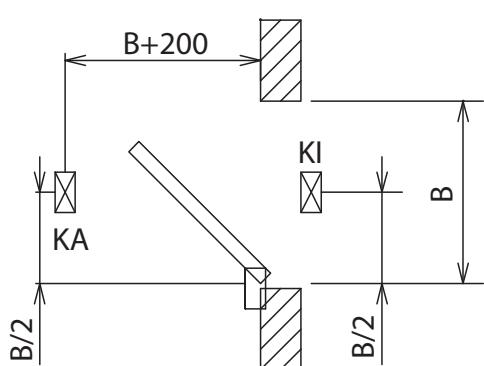
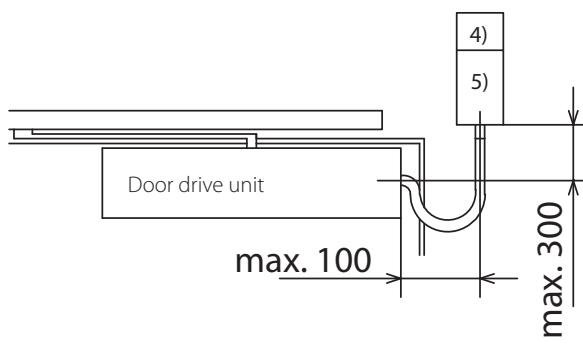
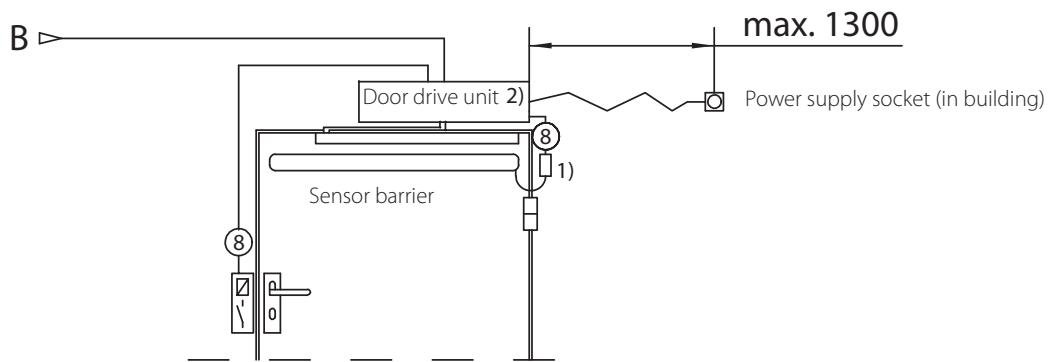
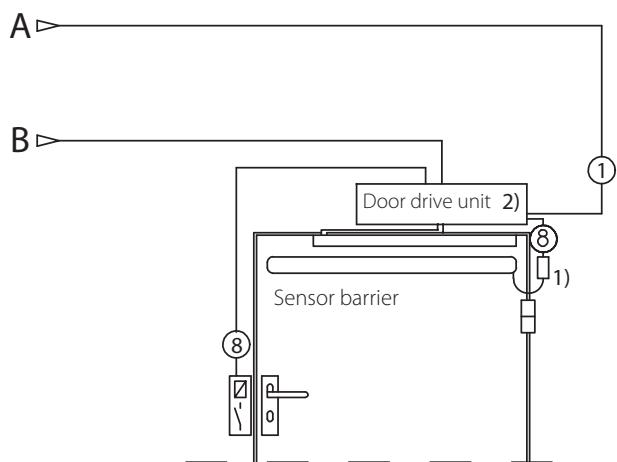
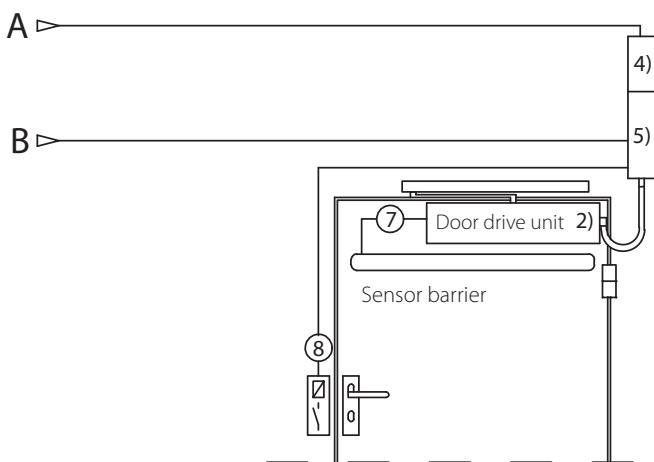
Cable should be laid in accordance with VDE 0100

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

Cable:

- ① NYM-J 3 x 1.5 mm²
- ② I-Y(ST)Y 1 x 2 x 0.6 mm
- ③ I-Y(ST)Y 2 x 2 x 0.6 mm
- ④ I-Y(ST)Y 4 x 2 x 0.6 mm
- ⑤ LiYY 2 x 0.25 mm²
- ⑥ LiYY 4 x 0.25 mm²
- ⑦ Scope of delivery for sensor barrier or LiYY 5 x 0.25 mm²
- ⑧ Install taut wire in empty piping, internal diameter 10 mm



Positioning of the motion detector**Positioning of the connection socket for door leaf mounting****Head mounting – Mains connection via earthed socket****Head mounting – Concealed cable installation****Door leaf mounting**

ZERTIFIKAT ◆ CERTIFICATE ◆ CERTIFICATO ◆ CERTIFICADO ◆ CERTIFICAT

ZERTIFIKAT

Nr. B 09 07 58309 001

Zertifikatsinhaber: GEZE GmbH

Reinhold-Vöster-Str. 21-29
71229 Leonberg
DEUTSCHLAND

Produktions-
stätte(n): 62010

Prüfzeichen:



Produkt:

Antriebe für automatische Türen

Modell(e):

Drehtürantrieb ECTurn

Kenndaten:

Elektromechanischer Türantrieb
zum Einsatz in Fußgängerbereichen

Nennspannung:	110 V - 230 V
Nennfrequenz:	50 Hz - 60 Hz
Nennaufnahme:	75 W
Schutzklasse:	I
Schutzart:	IP 20 nur für trockene Räume
Drehmoment:	6 Nm
Umgebungstemperatur:	- 15°C / + 50°C

weitere technische Daten siehe Seite 2

Geprüft nach:

- DIN 18650-1:2005
- DIN 18650-2:2005
- EN 60335-1/A1:2004
- EN 60335-2-103:2003
- EN 954-1:1996 Kategorie 2
- EN ISO 13849-1:2008 Pl d
- EN ISO 13849-2:2008

Das Produkt wurde auf freiwilliger Basis auf die Einhaltung der grundlegenden Anforderungen geprüft und kann mit dem oben abgebildeten Prüfzeichen gekennzeichnet werden. Eine Veränderung der Darstellung des Prüfzeichens ist nicht erlaubt. Die Übertragung eines Zertifikates durch den Zertifikatsinhaber an Dritte ist unzulässig. Umseitige Hinweise sind zu beachten.

Prüfbericht Nr.:

71348957

Datum, 2009-07-24

Seite 1 von 2



Zertifikat
Nr. B 09 07 58309 001



Product Service

Technische Daten

Sicherheitssensoren	auf Türblatt mitfahrend
Kraftbegrenzung	einstellbar auf Normwerte, Einmessung am jeweiligen Muster durch Impulsmessung, dokumentierte Kraftmessung ist an jeder Tür notwendig

Kennziffer / Klassifizierung	Klasse
1 Antriebsart	1 Drehflügeltürantrieb
2 Dauerhaftigkeit	2 500 000 Testzyklen
3 Türflügelbauart	1 Drehflügeltür
4 Brandschutztür	0 nicht geeignet
5 Sicherheitseinrichtung am Antrieb	1 Kraftbegrenzung 2 Anschluss für Sicherheitssysteme 3 Niedrigenergie
6 Besondere Anforderungen	0 keine
7 Sicherheit am Türflügel	von Montagefirma zu installieren
8 Umgebungstemperatur	2 -15 °C bis +50 °C

Geeignet für:

- Automatischen Türbetrieb
- Niedrigenergieantrieb zu Nutzung durch besonders schutzbedürftige Personen
- Einsatz in Flucht- und Rettungswegen
- Akkubetrieb bei Netzausfall

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