

GEZE swing door drive ECturn

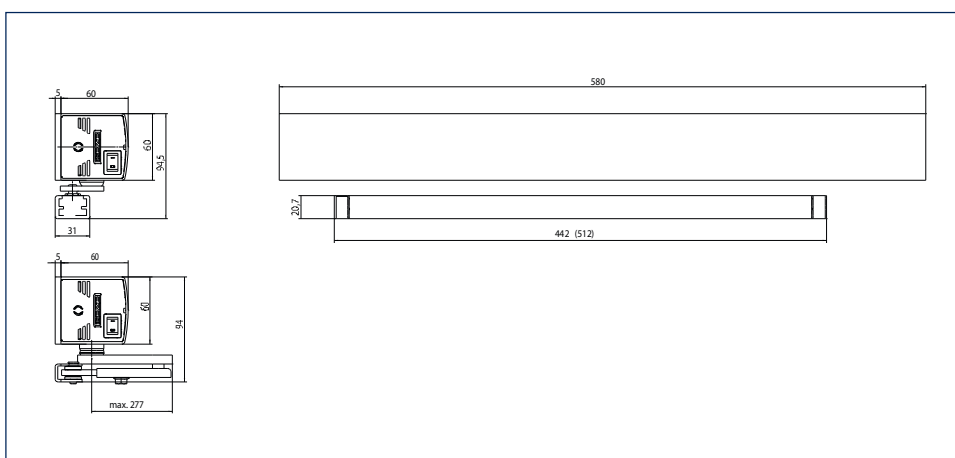
Electromechanical swing door drive for 1-leaf single-action internal doors

This extremely quiet electromechanical swing door drive meets the requirements of barrier-free construction. It makes life easier and more convenient – particularly for people with mobility problems or little strength. Doors can comfortably be opened automatically, or opened manually and closed automatically. The GEZE ECturn can be operated both in low-energy mode and in automatic mode in accordance with DIN 18650. In low-energy mode, the drive moves the swing door at reduced speed. The use of safety sensors to safeguard the system is only necessary in individual cases, taking the user group into account. In automatic mode, however, the swing area of the door must always be safeguarded with safety sensors. An optional battery ensures maximum safety even in the event of a power failure. This swing door drive covers all internal application cases. The ECturn is very flexible and permits all hinge variants, both for DIN left-hand and DIN right-hand doors.

GEZE ECturn



GEZE ECturn



Application range

- Barrier-free internal doors
- Hotel and restaurants
- Hospitals and nursing homes for the elderly
- Educational institutions e.g. schools, nursery schools, day care centres
- Leisure facilities, e.g. swimming baths, thermal baths, sport and fitness centres
- Administration and public buildings
- Homes

Technical data

Product features	GEZE ECTurn
Height	60 mm
Width	580 mm
Depth	60 mm
Leaf weight (max.) 1-leaf	125 kg
Leaf width (min.-max.)	650 – 1100 mm
Soffit depth (max.)*	200 mm
Door overlap (max.)*	50 mm
Drive type	Electromechanical
Door opening angle (max.)*	110 °
DIN left	●
DIN right	●
Transom installation opposite hinge side with link arm	●
Transom installation opposite hinge side with guide rail	●
Transom installation hinge side with guide rail	●
Door leaf installation opposite hinge side with guide rail	●
Door leaf installation hinge side with guide rail	●
Door leaf installation hinge side with link arm	●
Mechanical latching action	-
Electrical latching action	●
Electrical closing sequence control	-
Mechanical closing sequence control	-
Disconnection from mains	Main switch in the drive
Activation delay (max.)	10 S
Operating voltage (min.)	110 V
Operating voltage	230 V
Frequency of supply voltage	50 – 60 Hz
Capacity rating	75 W
Power supply for external consumers (24 V DC)	600 mA
Temperature range	-15 – 50 °C
Enclosure rating	IP 20
Operating modes	Off, Automatic, Permanently open, Night
Type of function	Fully automatic
Automatic function	●
Low-energy function	●
Servo function	-
Key function	●
Inverse function (opening by spring force)	-
Vestibule function	-
Obstruction detection	●
Automatic reversing	●
Push & go	adjustable
Operation	Programme switch TPS, Programme switch integrated in the drive
Parameter setting	Programme switch DPS, Controller
Approvals	DIN 18650
Suitable for fire proof doors	-

● = YES

- = NOT AVAILABLE

* = DEPENDING ON THE TYPE OF INSTALLATION

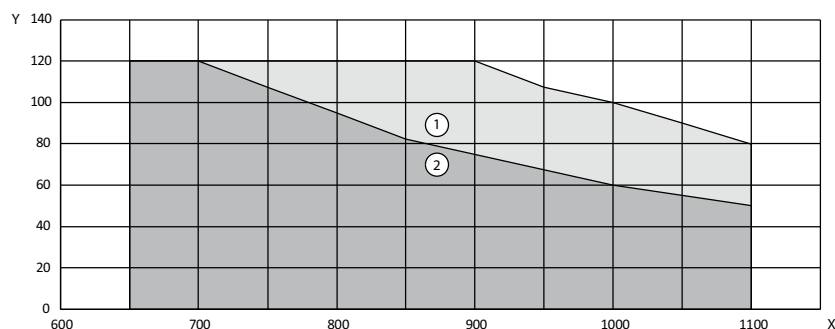
NOTE: THE MAXIMUM POSSIBLE LEAF WEIGHT IN RELATION TO LEAF WIDTH CAN BE FOUND IN THE CHAPTER ON AREAS OF APPLICATION (DIAGRAMS)!

Areas of application

Note

In low-energy mode the swing door drive moves at reduced speed and thus meets the safety requirement of DIN 18650. The use of safety sensors to safeguard the system is only necessary in individual cases, taking the user group into account. In automatic mode, however, the swing area of the door must always be safeguarded with safety sensors.

ECturn



Note: Use on internal doors only!

X = Door width (mm)

Y = Door weight (kg)

1 = Area of application in low energy mode

2 = Area of application in automatic mode

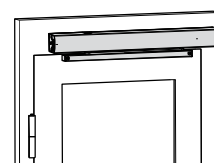
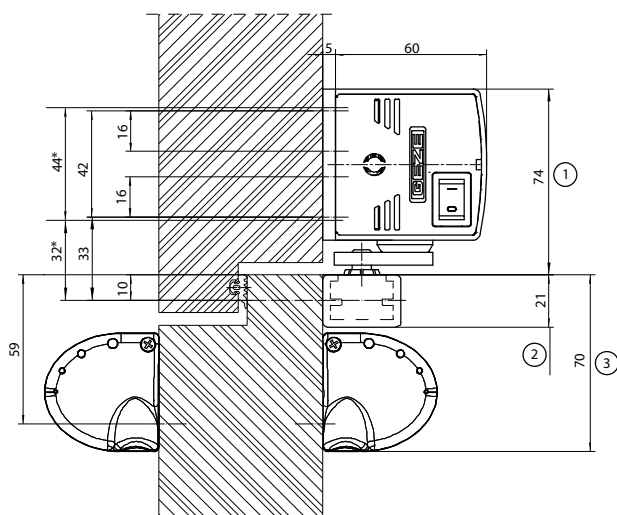
Note: Diagram shows left-hand (ISO 6), right-hand (ISO 5) is reversed (mirror-image).

Transom installation with guide rail on the hinge side, single-leaf

Drawing no. 70107-ep01

Soffit depth (max.) 40 mm

Door overlap (max.) 40 mm



* = Direct installation

1 = ECturn space requirement

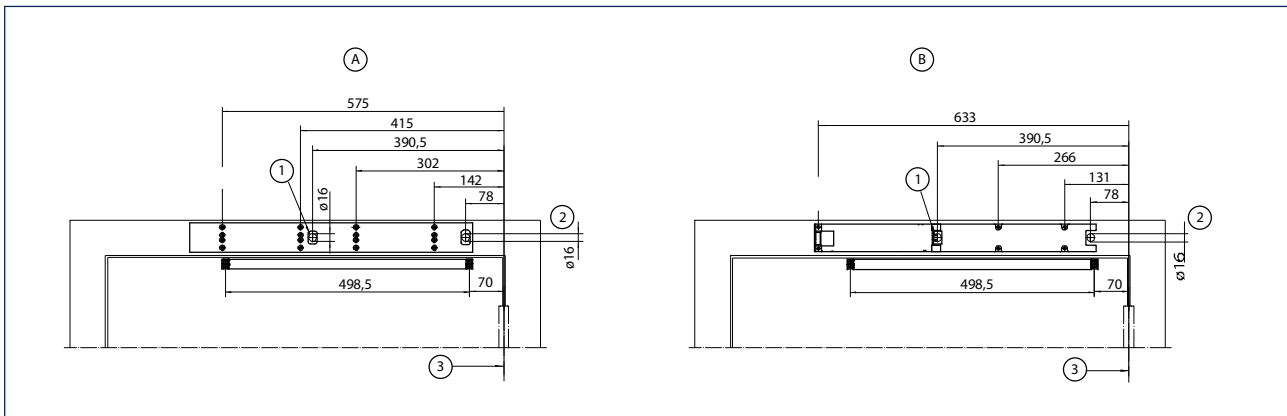
2 = Guide rail space requirement

3 = GC 334 space requirement

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- GEZE AUTOMATIC DOOR SYSTEMS

Installation with mounting plate (A) and direct installation (B)



A = Installation with mounting plate

B = Direct installation

1 = Concealed line-feed for low-voltage connection

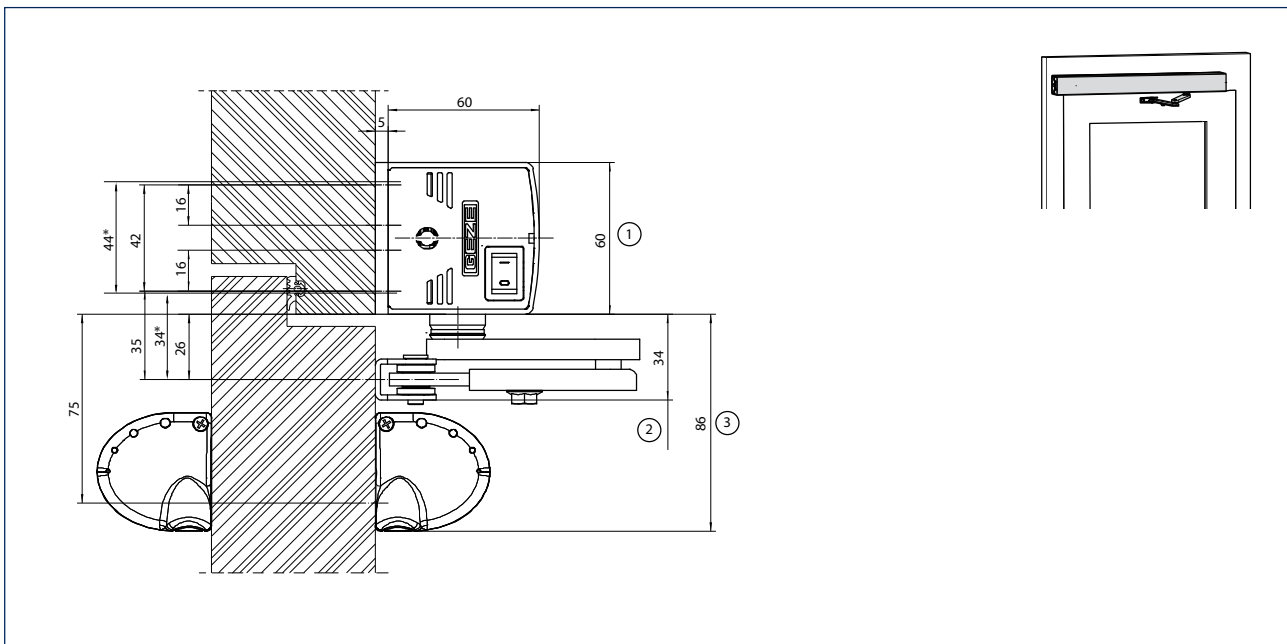
2 = Concealed line-feed for low-voltage connection and mains cable

3 = Dimensional reference is middle of hinge

Transom installation with link arm on the opposite hinge side, single-leaf

Drawing no. 70107-ep03

Soffit depth (max.) 200 mm



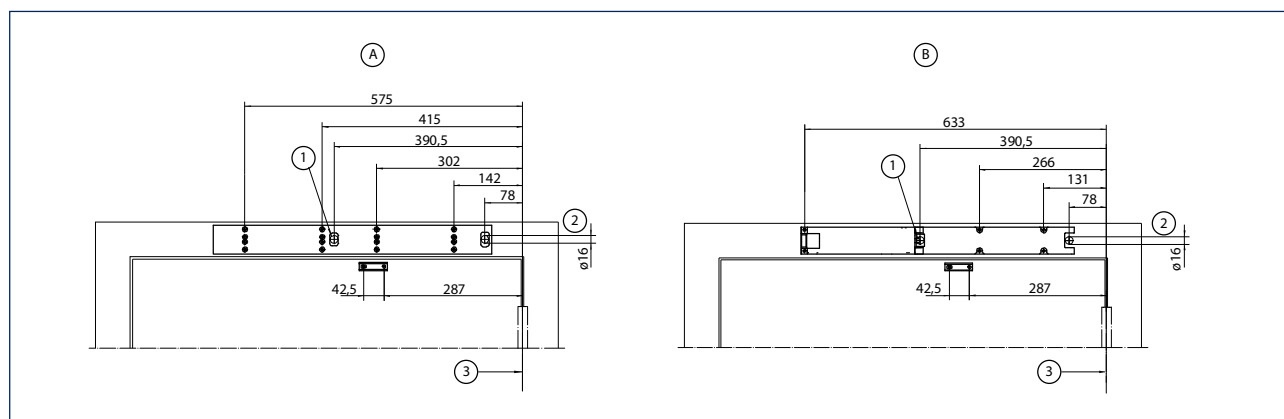
* = Direct installation

1 = ECturn space requirement

2 = Link arm space requirement

3 = GC 334 space requirement

Installation with mounting plate (A) and direct installation (B)



A = Installation with mounting plate

B = Direct installation

1 = Concealed line-feed for low-voltage connection

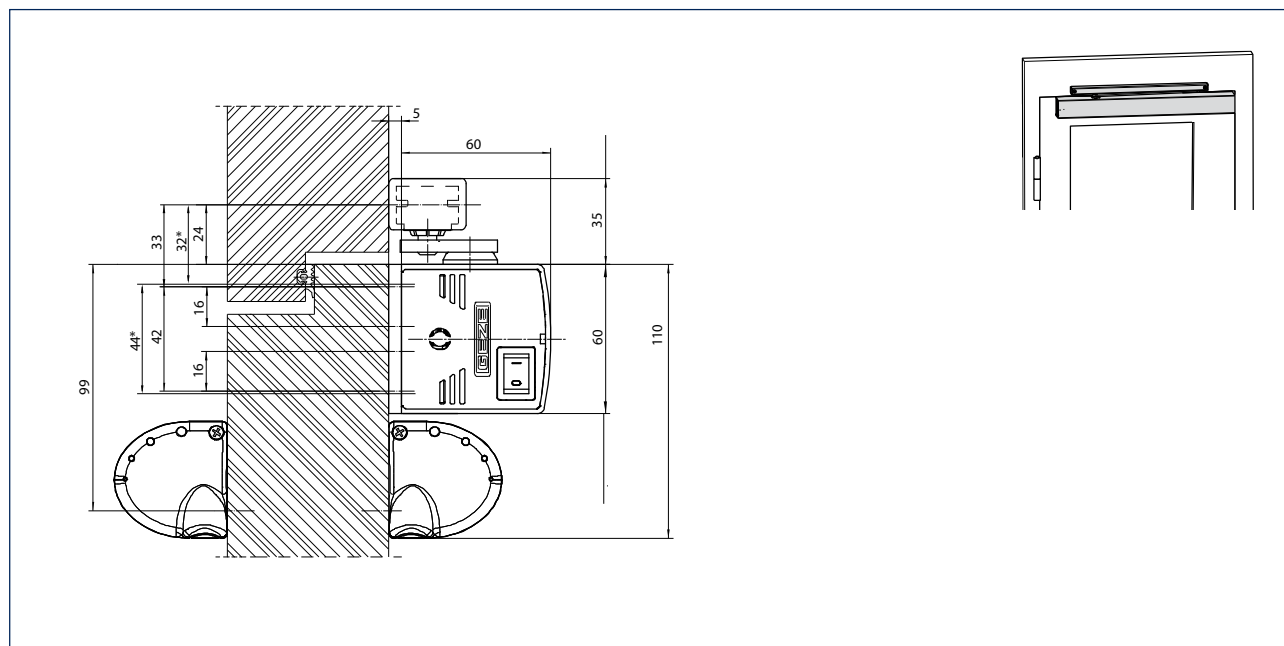
2 = Concealed line-feed for low-voltage connection and mains cable

3 = Dimensional reference is middle of hinge

Door leaf installation with guide rail on the hinge side, single-leaf

Drawing no. 70107-ep04

Door overlap (max.) 50 mm



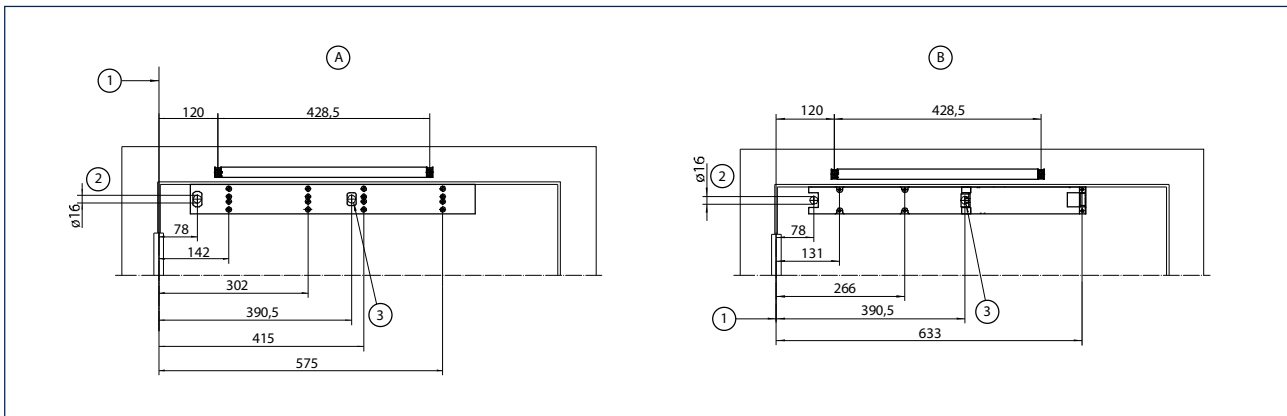
* = Direct installation

1 = Guide rail space requirement

2 = ECTurn space requirement

3 = GC 334 space requirement

Installation with mounting plate (A) and direct installation (B)



A = Installation with mounting plate

B = Direct installation

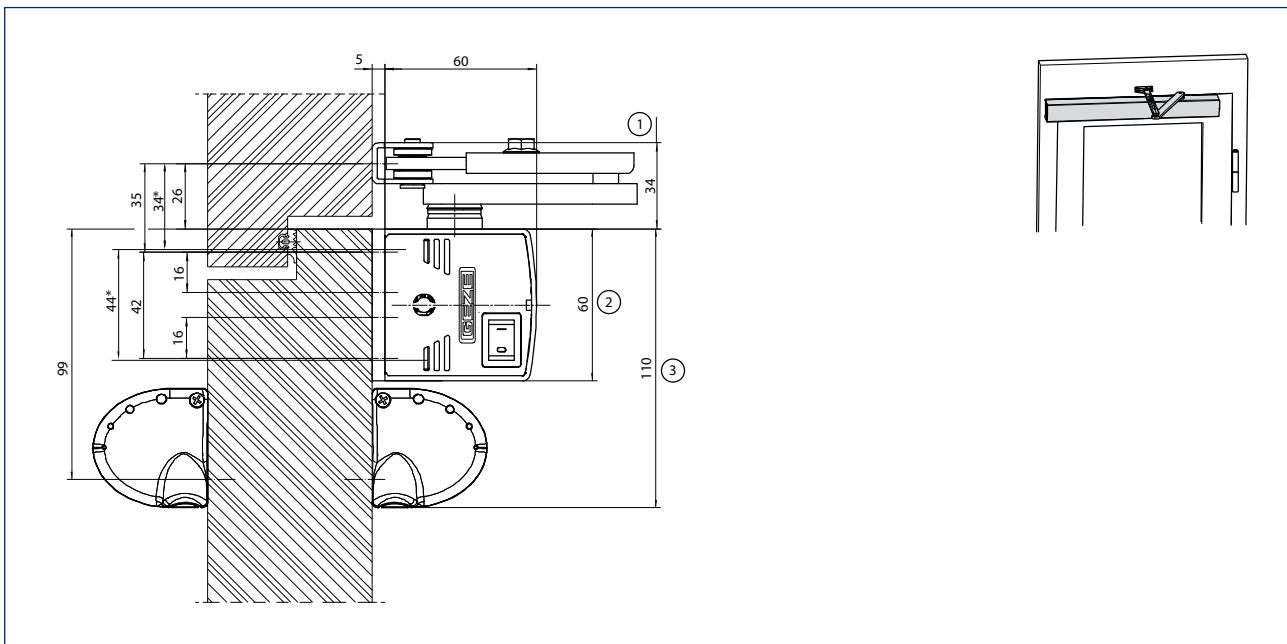
1 = Dimensional reference is middle of hinge

2 = Concealed line-feed for low-voltage connection and mains cable

3 = Concealed line-feed for low-voltage connection

Door leaf installation with link arm on the hinge side, single-leaf

Door overlap (max.) 200 mm



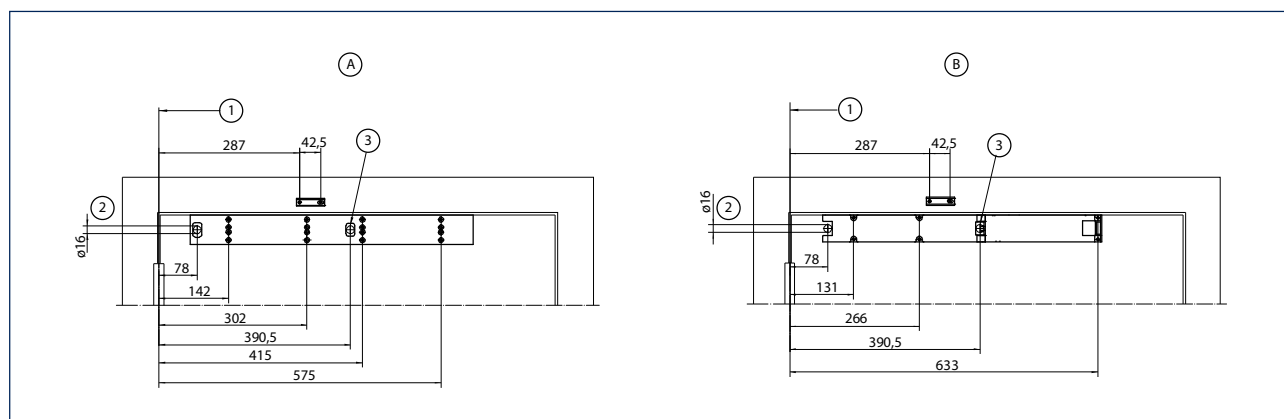
* = Direct installation

1 = ECTurn space requirement

2 = Link arm space requirement

3 = GC 334 space requirement

Installation with mounting plate (A) and direct installation (B)



A = Installation with mounting plate

B = Direct installation

1 = Dimensional reference is middle of hinge

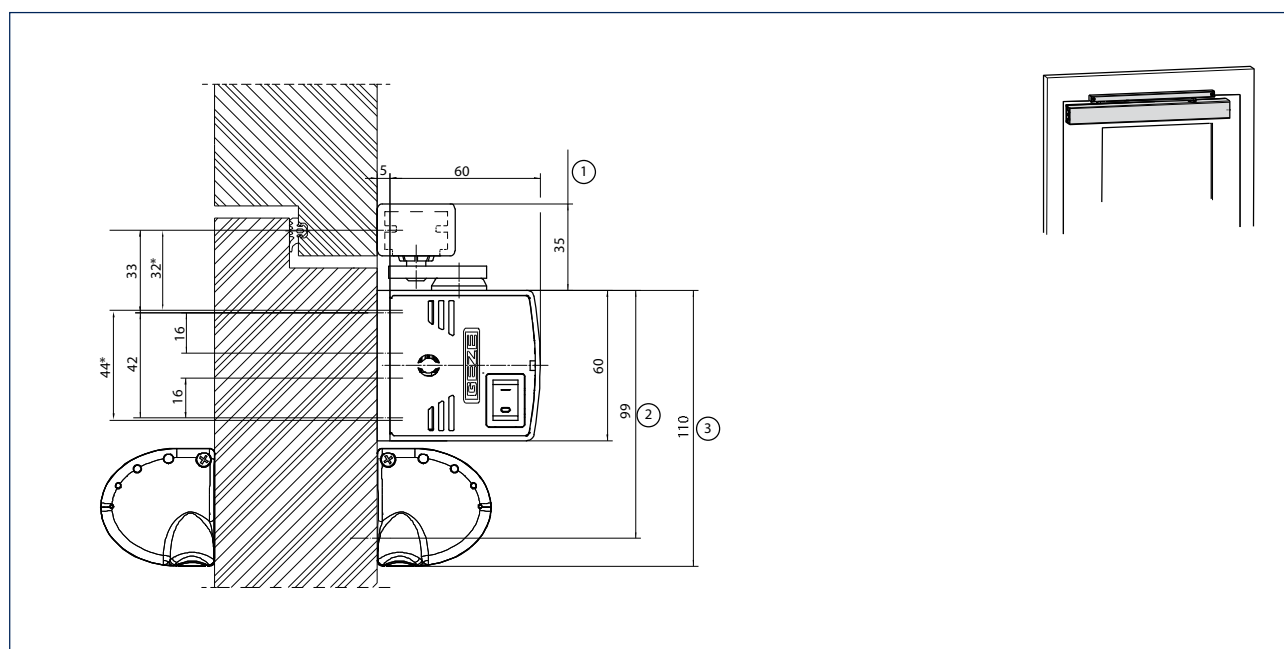
2 = Concealed line-feed for low-voltage connection and mains cable

3 = Concealed line-feed for low-voltage connection

Door leaf installation with guide rail on the opposite hinge side, single-leaf

Drawing no. 70107-ep05

Soffit depth (max.) 20 mm



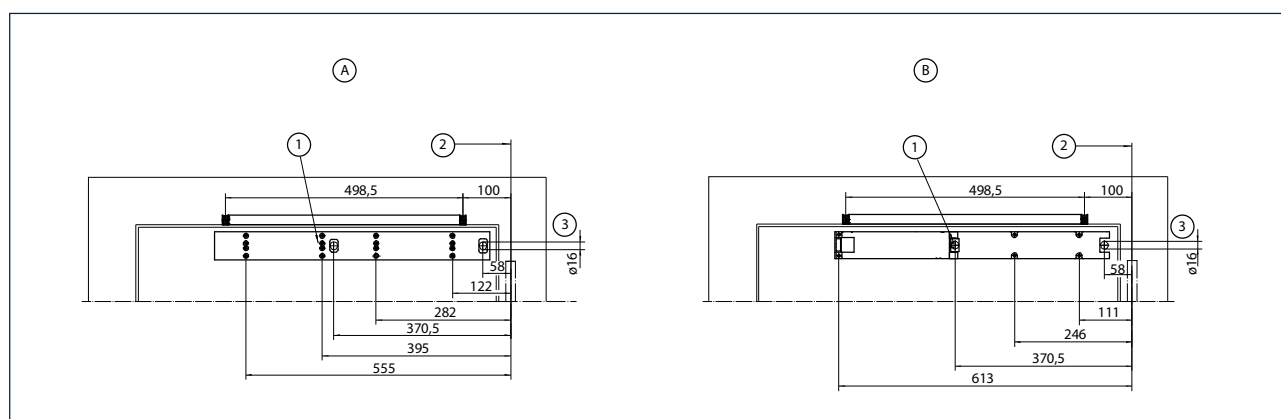
* = Direct installation

1 = Guide rail space requirement

2 = ECTurn space requirement

3 = GC 334 space requirement

Installation with mounting plate (A) and direct installation (B)



A = Installation with mounting plate

B = Direct installation

1 = Concealed line-feed for low-voltage connection

2 = Dimensional reference is middle of hinge

3 = Concealed line-feed for low-voltage connection and mains cable

Legend for the cable diagrams

Cable

1 = NYM-J 3 x 1.5 mm²

2 = J-Y(ST)Y 1 x 2 x 0.6 LG

3 = J-Y(ST)Y 2 x 2 x 0.6 LG

4 = J-Y(ST)Y 4 x 2 x 0.6 LG

5 = LiYY 2 x 0.25 mm²

6 = LiYY 4 x 0.25 mm²

7 = Scope of supply sensor strip or LiYY 5 x 0.25 mm²

8 = Route empty pipe with pull-wire inner diameter 10 mm

Notes

- Cable diagrams can also be prepared for specific building projects after receipt of order
- Version of standard cable diagrams in accordance with GEZE specifications
- Cable routing according to VDE 0100
- Allow the cable for the drive to project at least 1500 mm out of the wall

1) Door transmission cable (included in the scope of supply for sensor strip)

2) Cable exit for door drive, see installation drawings for ECturn 70107-ep01 to -ep06

3) Cable including in the scope of supply for the sensor

4) + 5) Connection box for mains supply and control cable combined on site. Mains supply and control cable must be wired in separate terminal spaces.

4) Mains connection box WxHxD min. 65 x 65 x 57

5) Control cable box WxHxD min. 94 x 65 x 57 with PG-11 duct

Abbreviations

HS = Main switch

NOT = Emergency-stop switch

KB = Contact sensor authorised

PS = Programme switch

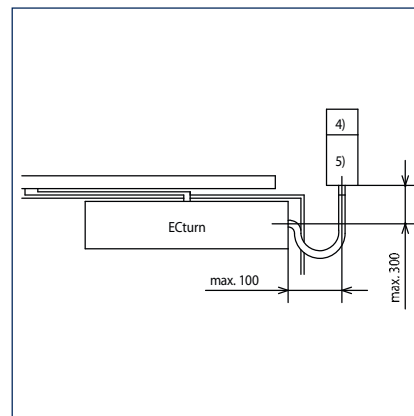
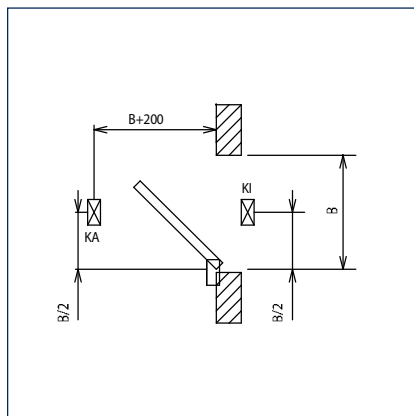
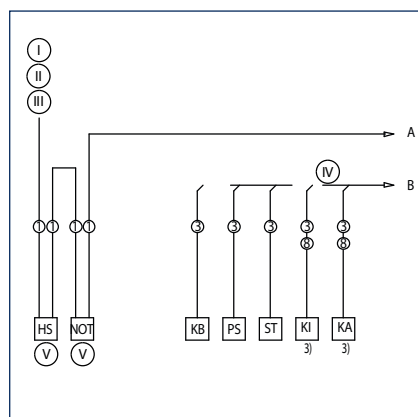
ST = Emergency stop

KI = Contact sensor inside

KA = Contact sensor outside

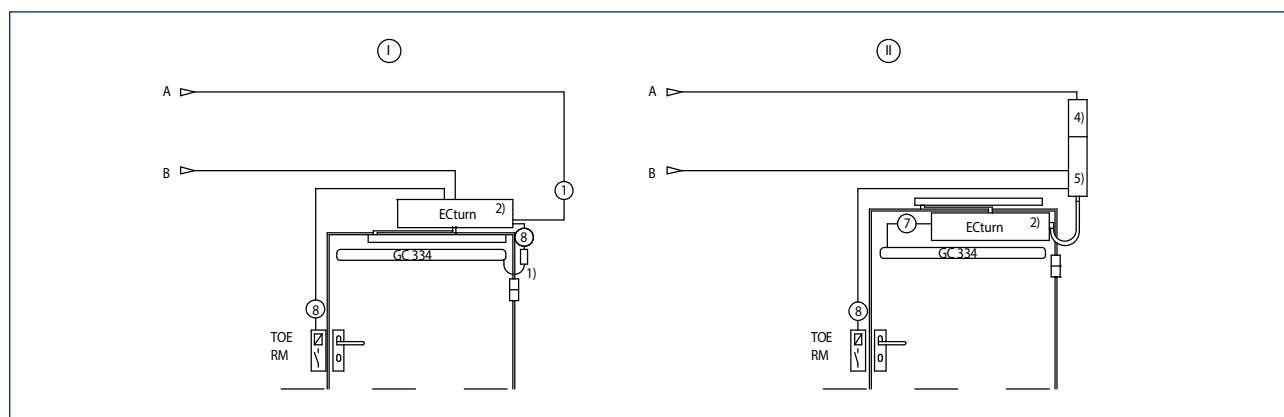
TOE = Door opener

RM = Bar message



- I = Mains supply cable 230 V / 50 Hz
- II = Fuse 10 A
- III = Connected load 230 W 1 A
- IV = And / Or
- V = Option

1-leaf



- I = Transom installation concealed line-feed
- II = Door leaf installation