# Powerturn



# Electromechanical swing door drive for single and double leaf doors up to 600 kg

### **AREAS OF APPLICATION**

- $\rightarrow$  Single and double leaf right and left single-action doors
- ightarrow Single-action doors up to 1600 mm leaf width or 600 kg weight
- → Minimum door leaf width is 800 mm
- → Interior and exterior doors with high access frequency
- ightarrow Door leaf installation and transom installation

### **PRODUCT FEATURES**

- → Smart swing function for easy manual door opening
- → Closing force of EN4-7 with variable adjustment
- → Opening and closing speed can be individually adjusted
- → Mechanical latching action when operated without current, and electrical automatic unit latching action in regular operation, which accelerates the door shortly before the closed position
- → Low-energy function opens and closes the door with reduced speed, fulfilling the highest safety demands
- → Servo function for motorized support when manually opening the door
- ightarrow Obstacle detection detects an obstacle through contact and stops the opening or closing process
- → Automatic reversing detects an obstacle and returns to the opening position
- → Push & Go function triggers the automatic drive components following light manual pressure on the door leaf
- $\rightarrow$  Drive can be used with roller guide rail or link arm
- → Optional radio board for wireless activation by radio transmitter
- → Freely configurable inputs and outputs for different functions
- ightarrow Can be networked via CAN bus and integrated into building technology management systems

### **TECHNICAL DATA POWERTURN SINGLE LEAF**

	Powerturn	Powerturn F	Powerturn F/R
PRODUCT FEATURES			
Height		70 mm	
Width	720	) mm	920 mm
Depth		130 mm	
Leaf weight (max.) single leaf		600 kg	
Leaf width (minmax.)*	800 – 1	1600 mm	857 mm - 1600 mm
Reveal depth (max.)*	560 mm	30	0 mm
Drive type		Electromechanical	
Door opening angle (max.)*		136°	
Spring pre-load**		EN4 – EN7	
DIN left	•	•	•
DIN right	•	•	•
Transom installation opposite hinge side with link arm	•	•	•
Transom installation opposite hinge side with Roller guide rail	•	•	•
Transom installation hinge side with roller guide rail	•	•	•
Door leaf installation opposite hinge side with roller guide rail	•	•	-
Door leaf installation hinge side with roller guide rail	•	•	-
Door leaf installation hinge side with link arm	•	•	-
Mechanical latching action	•	•	•
Electrical latching action	•	•	•
Disconnection from mains		Main switch in the drive	
Activation delay (max.)		10 s	
Operating voltage		230 V	
Frequency of supply voltage		50 Hz	
Capacity rating		200 W	
Power supply for external consumers (24 V DC)		1200 mA	
Temperature range****		–15 – 50° C	
Prating		IP30	
Modes of operation	Automat	ic, night mode, hold open, e	xit only, off
Type of function		Fully automatic	
Automatic function	٠	•	•
Low-energy function	٠	•	•
Smart swing function	•	•	•
Function keys	•	•	•
Vestibule function	٠	•	•
Obstacle detection	٠	•	•
Automatic reversing	•	•	•
Push & Go		adjustable	
Operation	Programme sv	vitch integrated on the drive	e unit, MPS, DPS
Parameter setting	GEZEco	onnects, ST 220 service term	ninal, DPS
Approvals	DIN 18650, EN 16005, I	DIN 18263-4 only for Power	turn F and Powerturn F/R
Suitable for fire protection doors	-	•	•
Integrated smoke switch (R variant)	-	-	•

• = yes | \* = Depending on type of installation | \*\* = See torque overview table | \*\*\* = The drive is designed exclusively for use in dry rooms

 $\rightarrow$  **Note:** The maximum possible leaf weight in relation to leaf width can be found in the chapter on areas of application (charts).

### TECHNICAL DATA POWERTURN DOUBLE LEAF

	IS	F-IS	F/R-IS	IS/TS	F-IS/TS	F/R-IS/TS
PRODUCT FEATURES						
Height			70	mm		
Width		dep	ending on th	e hinge clea	rance	
Depth			_	mm		
Leaf weight (max.) single leaf				0 kg		
Hinge clearance (minmax.) double leaf link arm	1600 –	3200 mm	1720 - 3200 mm	12	270 – 3200	mm
Hinge clearance (minmax.) double leaf roller guide rail	1600 – 1	2800 mm	1720 - 2800 mm	1380– 3000 mm	1500 - 28	– 2800 00 mm (F/R iant)
Leaf width (minmax.)*	800 – 1	1600 mm	800⁵– 1600 mm	4	70 – 1600 r	
Reveal depth (max.)*		300 mm			160 mm	
Drive type			Electrom	echanical		
Door opening angle (max.)*		136°	Lioodom			
Spring pre-load**		EN4 – EN7	,		EN1 – EN7	,
DIN left	•		•	•	•	•
DIN right	•	•		•	•	
Transom installation opposite hinge side with link arm	•				•	
Transom installation opposite hinge side with roller guide rail	•			•	-	
				-	•	-
Transom installation hinge side with roller guide rail Door leaf installation opposite hinge side with roller guide rail	-	-	-	-	-	-
Door leaf installation hinge side with roller 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	<u> </u>	•
Activation delay (max.)				) s	·	
Operating voltage				0 V		
Frequency of supply voltage				Hz		
Capacity rating				0 W		
Power supply for external consumers (24 V DC)				0 mA		
Temperature range****				50° C		
IP rating				30		
Modes of operation		Automatic	, night mode		evit only of	f
Type of function		Automatic,		itomatic	exit only, of	
Automatic function	•	•			•	•
Low-energy function	•	•	•	•	•	
Smart swing function	•		•	•		
Function keys	•	•	•		•	
Vestibule function Obstacle detection	•	•	•		•	
	•	•				
Automatic reversing	•					
Push & Go	Du			stable		
	Prog		ch integrate			
Operation		0575		I CONVICO TOR	rminal, DPS	
Parameter setting		GEZEconr				
Parameter setting		18263-4 on		, EN 16005, ′R-IS, F-IS/	TS and F/R-	
		18263-4 on	DIN 18650 ly for F-IS, F/	, EN 16005, ′R-IS, F-IS/	TS and F/R-	

• = yes | \* = Depending on type of installation | \*\* = See torque overview table | \*\*\* = Types of installation: Transom installation types with link arm/

roller guide rail | \*\*\*\* = The drive is designed exclusively for use in dry rooms | 5 = 857 mm on the active leaf

### TECHNICAL DATA FOR USE OF THE IS/TS VARIANT

### **POWERTURN IS/TS WITH TS 5000 L DOOR CLOSER**

Element	Active leaf		Passive leaf	System	
Drive/door closer	Powerturn	Powerturn F Powerturn F/R	TS 5000 L	Powerturn IS/TS	Powerturn F-IS/TS Powerturn F/R-IS/TS
Lever type	Roller guide rail		Guide rail		
Min. – max. leaf width	800 – 1,600 mm	800 – 1,400 mm	580 – 1,400 mm		
Min. – max. hinge clearance				1,380 – 3,000 mm	1,380 – 2,800 mm 1,500 – 2,800 mm (F/R variant)
Reveal			0 mm		
EN closing force		EN 4-6	EN 2-6		EN 3-6

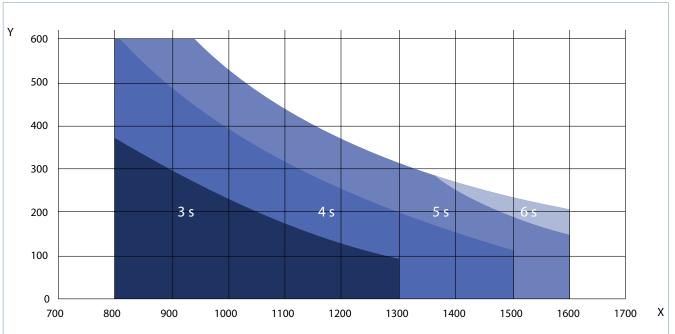
### **POWERTURN IS/TS WITH DOOR CLOSER TS 4000**

Element	Active leaf		Passive leaf	System	
Drive/door closer	Powerturn	Powerturn F Powerturn F/R	TS 4000 EN 1-6 or EN 5-7	Powerturn IS/TS	Powerturn F-IS/TS Powerturn F/R-IS/TS
Lever type	Link arm		Link arm		
Min. – max. leaf width	800 – 1,600 mm		470 – 1600 mm		
Min. – max. hinge clearance				1,270 – 3,200 mm 1,500 – 3,200 (F/R v	ariant)
Reveal			0 – 160 mm		
EN closing force		EN 6-7	EN 1-7*		EN 3-7

\* Standard version with TS 4000 EN 1-6, on request via Customer Solutions there is the option for the use of TS 4000 EN 5-7

**POWERTURN WITH OPENING TIMES UP TO 90° DOOR OPENING ANGLE** 

### **AREAS OF APPLICATION**



X = Door width (mm) | Y = Door weight (kg)

### **OPENING TIMES POWERTURN**

The following minimum opening times must be complied with in order to comply with safety requirements in low-energy mode. All values in seconds.

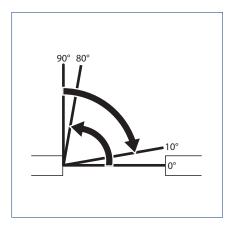
### Door weight (kg)

-																			
	60	90	120	150	180	210	240	270	300	330	370	400	430	460	490	520	550	580	600
800	4	4	5	5	6	6	7	7	7	8	8	8	9	9	9	10	10	10	10
900	4	5	5	6	7	7	7	8	8	9	9	9	10	10	11	11	11	11	11
1000	4	5	6	7	7	8	8	9	9	10	10	10	11	11	12	12			
1100	5	6	6	7	8	8	9	9	10	10	11	11	12						
1200	5	6	7	8	8	8	10	10	11	11	12								
1300	6	7	8	8	9	10	11	11	12	12									
1400	6	7	8	9	10	11	11	12											
1500	6	8	9	10	11	11													
1600	7	8	9	10	11	12													
	900 1000 1100 1200 1300 1400 1500	800       4         900       4         1000       4         1100       5         1200       5         1300       6         1400       6         1500       6	800         4         4           900         4         5           1000         4         5           1100         5         6           1200         5         6           1300         6         7           1400         6         7           1500         6         8	800         4         4         5           900         4         5         5           1000         4         5         6           1100         5         6         6           1200         5         6         7           1300         6         7         8           1400         6         7         8           1500         6         8         9	800         4         4         5         5           900         4         5         5         6           1000         4         5         6         7           1000         5         6         7         7           1100         5         6         7         8           1200         5         6         7         8           1300         6         7         8         9           1400         6         7         8         9	800         4         4         5         5         6           900         4         5         5         6         7           1000         4         5         6         7         7           1000         4         5         6         7         8           1000         5         6         7         8         8           1200         5         6         7         8         9           1300         6         7         8         9         10           1400         6         7         8         9         10	800         4         4         5         5         6         6           900         4         5         5         6         7         7           1000         4         5         6         7         7         8           1000         4         5        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      12         12         12         12         12</th><th>800         4         4         5         5         6         6         7         7         7         8         8         8         9         9           900         4         5         5         6         7         7         8         8         8         9         9           900         4         5         5         6         7         7         8         8         9         9         10         10           1000         4         5         6         7         7         8         8         9         9         10         10         10         10         10         10         10         11         11         11         11         11         11         11         11         11         11         12         120         5         6         7         8         8         10         10         11         11         12</th><th>800         4         4         5         5         6         6         7         7         8         8     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  6         7         7         8         8         9         9         10         10         10           1000         4         5         6         7         8         8         9         9         10         10         10         10           1100         5         6         7         8         8         9         10         11	800         4         4         5         5         6         6         7         7         8         8         8         9           900         4         5         5         6         7         7         8         8         8         9           900         4         5         5         6         7         7         8         8         9         9         10           1000         4         5         6         7         7         8         8         9         9         10           1000         4         5         6         7         7         8         8         9         9         10         10         10         11           1000         5         6         7         8         8         9         9         10         10         11         11         12           1100         5         6         7         8         8         9         9         10         11         11         12         11         11         12         11         11         12         12         12         12         12         12         12         12	800         4         4         5         5         6         6         7         7         7         8         8         8         9         9           900         4         5         5         6         7         7         8         8         8         9         9           900         4         5         5         6         7         7         8         8         9         9         10         10           1000         4         5         6         7         7         8         8         9         9         10         10         10         10         10         10         10         11         11         11         11         11         11         11         11         11         11         12         120         5         6         7         8         8         10         10         11         11         12	800         4         4         5         5         6         6         7         7         8         8         8         9         9         9           900         4         5         5         6         7         7         8         8         8         9         9         9           900         4         5         5         6         7         7         8         8         9         9         10         10         11           1000         4         5         6         7         7         8         8         9         9         90         10         10         11         11         12           1000         4         5         6         7         8         8         9         9         10         10         11         11         12         11         12         12         11         11         12	800         4         4         5         5         6         6         7         7         7         8         8         8         9         9         9         9         10           900         4         5         5         6         7         7         8         8         8         9         9         9         9         10           900         4         5         5         6         7         7         8         8         9         9         9         9         10         11         11           1000         4         5         6         7         7         8         8         9         9         10         10         10         11         11         11           1000         4         5         6         7         8         8         9         9         10         10         11         11         12         11         12         12         11         11         12         11         11         12         11         11         12         11         11         12         11         11         12         11         11         11 <t< th=""><th>800         4         4         5         5         6         6         7         7         7         8         8         8         9         9         9         10         10           900         4         5         5         6         7         7         8         8         8         9         9         9         10         10           900         4         5         5         6         7         7         8         8         9         9         9         9         10         11         11         11           1000         4         5         6         7         7         8         9         9         10         10         11         11         11         11           1000         4         5         6         7         8         8         9         9         10         10         11         11         12         12         12         11         11         11         11         11         11         11         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11         12         12         12         11         11         11         11         11         11         11         11         12         11         11         12         11         12         11         12         12         12         12	800         4         4         5         5         6         6         7         7         8         8         8         9         9         9         10         10         10           900         4         5         5         6         7         7         8         8         8         9         9         9         10         10         10           900         4         5         5         6         7         7         8         8         9         9         9         9         10         10         11         11         11           1000         4         5         6         7         7         8         8         9         9         10         10         11         11         11         11         11         11           100         4         5         6         7         8         8         9         10         11         11         12         11         11         12         11         11         12         11         11         12         11         11         12         11         12         11         12         12         12

#### Note: $\rightarrow \rightarrow \rightarrow$

Low-energy mode without protection should only be considered if the risk assessment for people in special need of protection has shown that the risk to these users is low. If there is a potential risk, then the hazardous area, such as the rotation range and the secondary closing edge, must be protected using additional safety measures.

Illustration of the minimum opening times to be set depending on the door weight and door leaf width for a door opening from 0° to 80° or for a closing movement from 90° to 10° door opening angle.



### **OVERVIEW OF TORQUES – POWERTURN**

		K-BS rail		K-BG rail	S	T-BS rail		T-BG rail	S	K-BG link a		T-BS link a	rm
		Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
EN 1154	EN class	4	6	4	6	4	6	5	6	6	7	6	7
Closing torques	Nm (door)	0	60	0	60	0	60	0	60	0	100	0	100
OPN_TORQ MAX automatic	Nm (door)	135		121		143		127		180*		180*	
Opening torque manual (Off mode of operation)	Nm (door)	10		9		11		10		19		21	

\* = Restricted according to DIN 18263-4 | K = Transom installation | T = Door leaf installation | BS = Hinge side | BGS = Opposite hinge side

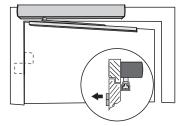
 $\rightarrow$  **Note:** The doors must be fitted with suitable hinges for automatic operation. A door stopper is necessary.

### **INSTALLATION**

The Powerturn allows the following types of installation, each in DIN left and DIN right:

Type of installation
-Transom installation hinge side rail

–Transom installation opposite hinge side rail



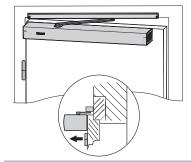
Dimension		Powerturn	Powerturn F			
Reveal depth LT [mm]		0-100 <sup>5</sup> (60-200) <sup>1, 5</sup>	0–100			
Door overlap Ü [mm]		0-	30			
Max. door opening an	gle TÖW [°]	approx. 102-133 <sup>2</sup>				
Standard guide rail	L = [mm]	68	37			
Lever	L = [mm]	33	30			
Distance centre door	hinge-drive axis [mm]	19	90			
EN class		4-	-6			

Reveal depth + doo	r leaf thickness [mm]	max. 100
Max. door opening a	ngle TÖW [°]	approx. 108 <sup>3</sup>
Standard guide rail L = [mm]		687
Lever	L = [mm]	450
Distance centre doo	or hinge-drive axis [mm]	190
EN class		4-6

Dimension

### Type of installation

### -Door installation hinge side rail

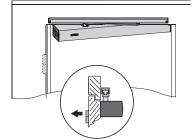


Reveal depth LT [mm] 0-50 Door overlap Ü [mm] 0-30 Max. door opening angle TÖW [°] approx. 1263 Standard guide rail L = [mm] 734 Lever L = [mm] 330 Distance centre door hinge-drive axis [mm] 220 **EN** class 4-6

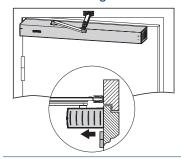
Powerturn

Powerturn F

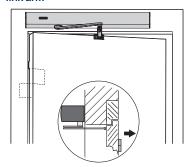
-Door installation opposite hinge side rail



#### Door installation hinge side link arm



### Transom installation opposite hinge side link arm



EN Class	Ь	-/
Standard reveal depth LT [mm]	up to 510	up to 300
Reveal depths LT with link arm adapter for sensor link arm [mm]	up to 560	up to 300
Max. door leaf thickness [mm]	1	50
Marcala and a state and a		10 105234

	100	
Max. door opening angle TÖW [°]	approx. 110-135 <sup>2,3,4</sup>	
Distance centre door hinge-drive axis [mm]	190	
EN class	6-7	

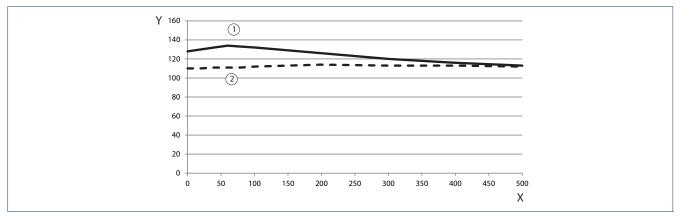
1 = With lever (450 mm) | 2 = Calculation max. door opening angle, see diagrams below | 3 = Door opening angle through collision lever/drive with door/frame | 4 = Diagram of transom installation-opposite hinge side-link arm/reveal-max. door opening angle, see below | 5 = Diagram of transom installation-hinge side-rail/reveal-max. door opening angle

Reveal depth LT [mm]	0
Max. door opening angle TÖW [°]	approx. 104
Standard guide rail L = [mm]	734
Lever L = [mm]	450
Distance centre door hinge-drive axis [mm]	220
EN class	5-6
Max. door leaf thickness [mm]	100

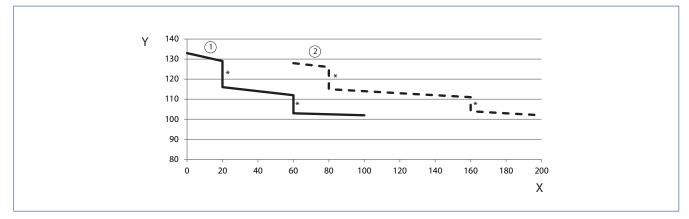
Reveal depth LT [mm]	0	
Door overlap Ü [mm]	0-30	0
Distance centre door hinge-drive axis [mm]	22	0
Max. door opening angle TÖW [°]	approx	к. 115
EN class	6-	7

### **REVEAL / MAX. DOOR OPENING ANGLE**

### TRANSOM INSTALLATION OPPOSITE HINGE SIDE LINK ARM



X = Reveal depth (mm) | Y = Max. door opening angle (°) | 1 = Door opening angle | 2 = Door opening angle with sensor link arm

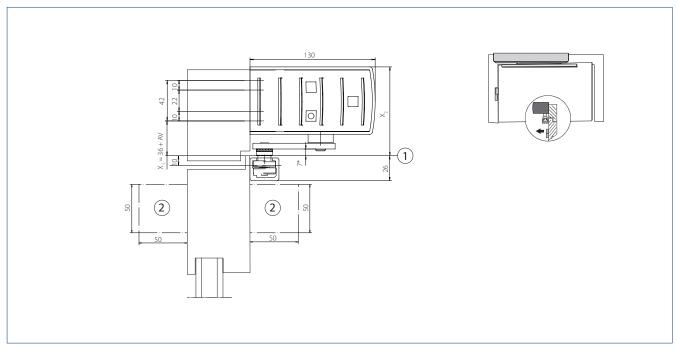


### TRANSOM INSTALLATION HINGE SIDE ROLLER GUIDE RAIL

\* = Preload | X = Reveal depth (mm) | Y = Max. door opening angle (°) | 1 = Lever 330 mm | 2 = Lever 450 mm

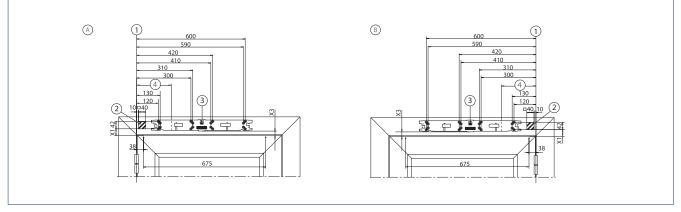
### TRANSOM INSTALLATION WITH ROLLER GUIDE RAIL ON THE HINGE SIDE, SINGLE AND DOUBLE LEAF

### Drawing no. 70109-ep01



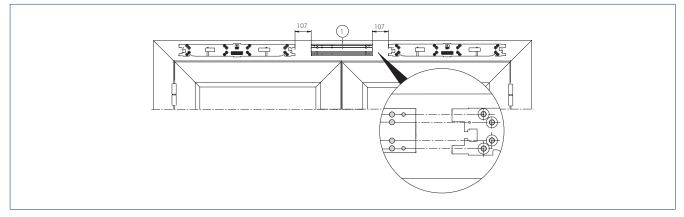
\* = Important function dimension | AV = Spindle extension | 1 = Base top edge of door | 2 = Space needed for sensor strip

### FITTING DIMENSION MOUNTING PLATE



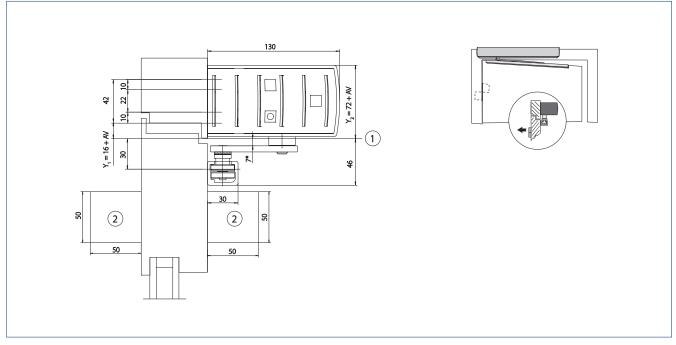
A = DIN left | B = DIN right | 1 = Dimensional reference centre of hinge / top edge of door | 2 = Concealed line-feed possible in the hatched area, e.g. Ø 20 mm for network connection or low-voltage connection | 3 = Orientation arrow for clear positioning of the mounting plate | 4 = Distance centre door hinge-drive axis





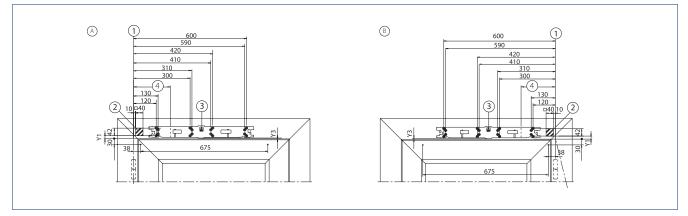
## TRANSOM INSTALLATION WITH ROLLER GUIDE RAIL ON THE OPPOSITE HINGE SIDE, SINGLE AND DOUBLE LEAF

Drawing no. 70109-ep02



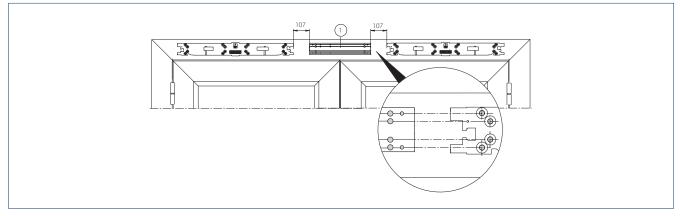
\* = Important function dimension | AV = Spindle extension | 1 = Base lower edge of lintel | 2 = Space needed for sensor strips

### FITTING DIMENSION MOUNTING PLATE

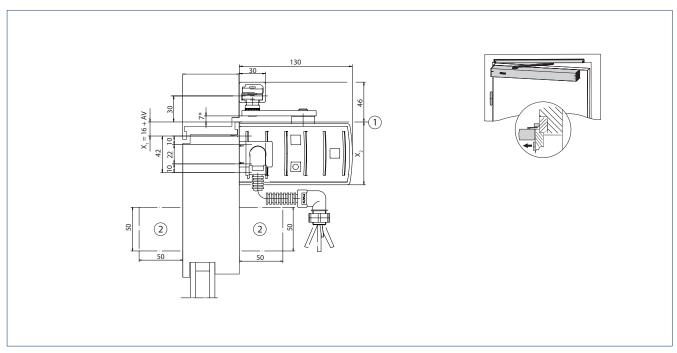


A = DIN left | B = DIN right | 1 = Dimensional reference centre of hinge / door frame bottom edge | 2 = Concealed line-feed possible in the hatched area, e.g. 0 20 mm for network connection or low-voltage connection | 3 = Orientation arrow for clear positioning of the mounting plate | 4 = Distance centre door hingedrive axis

### DOUBLE LEAF INSTALLATION WITH INTERMEDIATE COVER WITH DIVIDED OR CONTINUOUS COVER

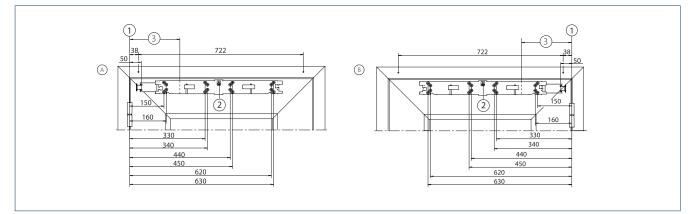


### DOOR LEAF INSTALLATION WITH ROLLER GUIDE RAIL ON THE HINGE SIDE, SINGLE AND DOUBLE LEAF Drawing no. 70109-ep03



\* = Important function dimension | AV = Spindle extension| 1 = Base top edge of door | 2 = Space needed for sensor strips

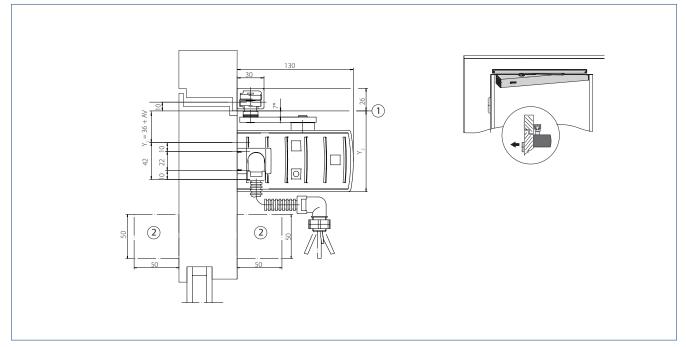
### FITTING DIMENSION MOUNTING PLATE



A = DIN left | B = DIN right | 1 = Dimensional reference centre of hinge / top edge of door | 2 = Orientation arrow for clear positioning of the mounting plate | 3 = Distance centre door hinge-drive axis

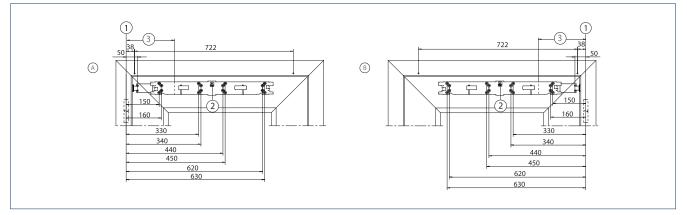
## DOOR LEAF INSTALLATION WITH ROLLER GUIDE RAIL ON THE OPPOSITE HINGE SIDE, SINGLE AND DOUBLE LEAF

Drawing no. 70109-ep04



\* = Important function dimension | AV = Spindle extension | 1 = Base lower edge of lintel | 2 = Space needed for sensor strips

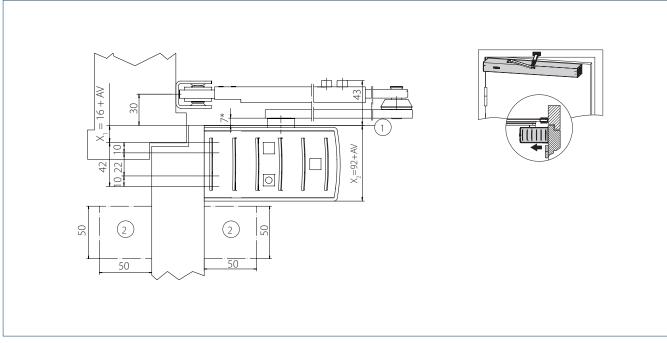
### FITTING DIMENSION MOUNTING PLATE



A = DIN left | B = DIN right | 1 = Dimensional reference centre of hinge / door frame bottom edge | 2 = Orientation arrow for clear positioning of the mounting plate | 3 = Distance centre door hinge-drive axis

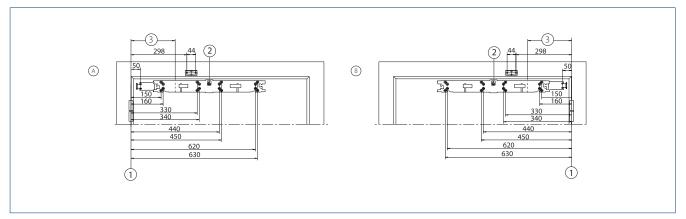
### DOOR LEAF INSTALLATION WITH LINK ARM ON THE HINGE SIDE, SINGLE AND DOUBLE LEAF

Drawing no. 70109-ep06



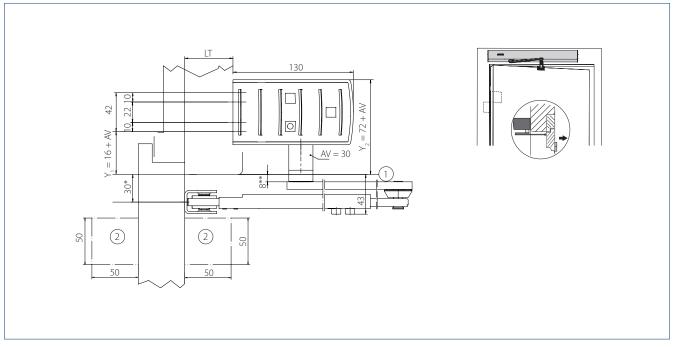
\* = Important function dimension | AV = Spindle extension | 1 = Base top edge of door | 2 = Space needed for sensor strips

### FITTING DIMENSION MOUNTING PLATE



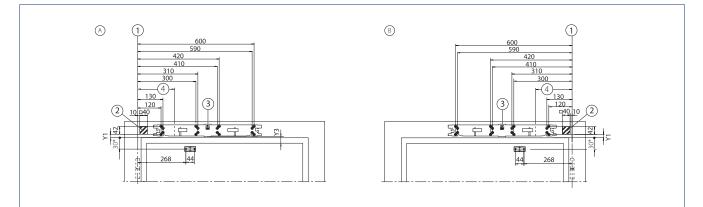
A = DIN left | B = DIN right | 1 = Dimensional reference centre of hinge | 2 = Orientation arrow for clear positioning of the mounting plate | 3 = Distance centre door hinge-drive axis

### TRANSOM INSTALLATION WITH LINK ARM ON THE OPPOSITE HINGE SIDE, SINGLE AND DOUBLE LEAF Drawing no. 70109-ep05



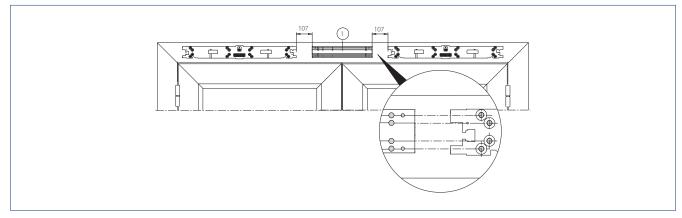
\* = With sensor adapter 35,5 mm | \*\* = Important function dimension | AV = Spindle extension | LT = Reveal depth| 1 = Basic lintel bottom edge | 2 = Space needed for sensor strips

### FITTING DIMENSION MOUNTING PLATE



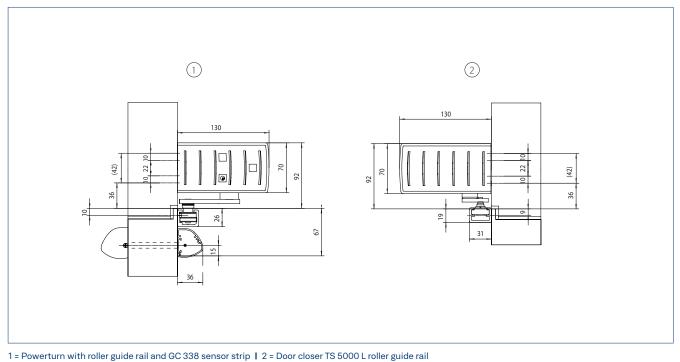
\* = With sensor adapter 35.5 mm | A = DIN left | B = DIN right | 1 = Dimensional reference centre of hinge / top edge of door | 2 = Concealed line-feed possible in the hatched area, e.g. Ø 20 mm for network connection or low-voltage connection | 3 = Orientation arrow for clear positioning of the mounting plate 4 = Distance centre door hinge-drive axis

### DOUBLE LEAF INSTALLATION WITH INTERMEDIATE COVER WITH DIVIDED OR CONTINUOUS COVER

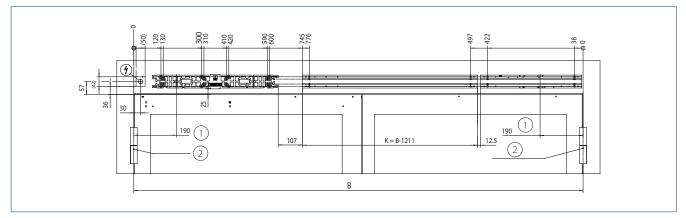


## POWERTURN IS/TS: TRANSOM INSTALLATION WITH ROLLER GUIDE RAIL ON THE HINGE SIDE, DOUBLE LEAF

Drawing no. 70109-ep21

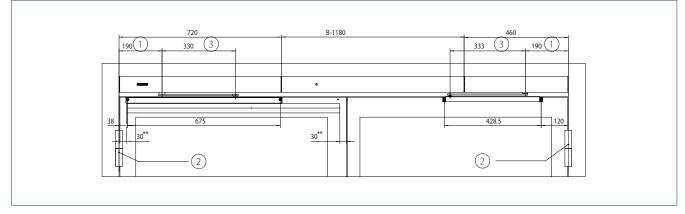


### FASTENING THE MOUNTING PLATE (POWERTURN) AND BASE PLATE (TS 5000 L)



K = Position of the intermediate base plate | B = Hinge clearance | 1 = Distance centre door hinge-drive axis | 2 = Dimensional reference centre of hinge

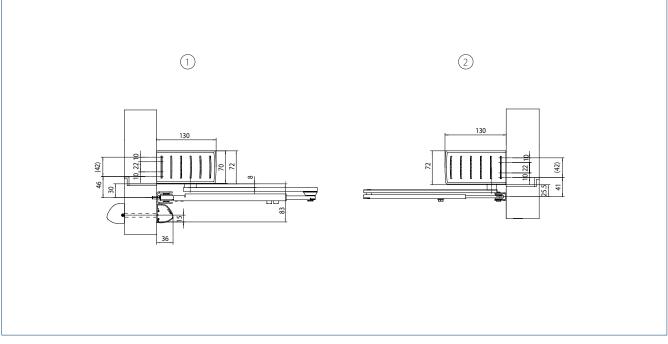
### SIZE OF ROLLER GUIDE RAIL (POWERTURN), GC 338 AND GUIDE RAIL (TS 5000 L)



B = Hinge clearance | \*\* = Recommended size for installation of the GC 335 and GC 338 sensor strip | 1 = Distance centre door hinge-drive axis | 2 = Dimensional reference centre of hinge | 3 = Lever length

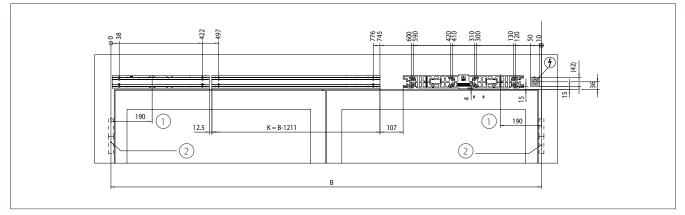
## POWERTURN IS/TS: TRANSOM INSTALLATION WITH LINK ARM ON THE OPPOSITE HINGE SIDE, DOUBLE LEAF

Drawing no. 70109-ep25



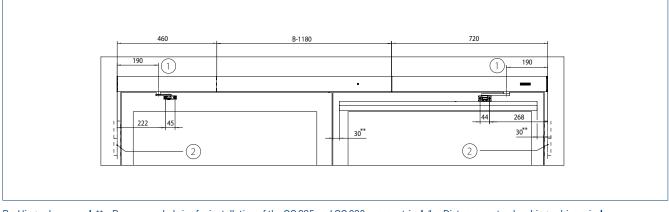
1 = Powerturn with link arm and GC 338 sensor strip | 2 = TS 4000 door closer with link arm

### FASTENING THE MOUNTING PLATE (POWERTURN) AND BASE PLATE (TS 4000)



K = Position of the intermediate base plate | B = Hinge clearance | 1 = Distance centre door hinge-drive axis | 2 = Dimensional reference centre of hinge

### SIZE OF LINK ARM RAIL (POWERTURN), GC 338 AND LINK ARM (TS 4000)



B = Hinge clearance | \*\* = Recommended size for installation of the GC 335 and GC 338 sensor strip | 1 = Distance centre door hinge-drive axis | 2 = Dimensional reference centre of hinge

### LEGEND FOR THE CABLE PLANS

### CABLES

$1 = NYM - J 3 \times 1.5 mm^2$
$2 = J - Y(ST)Y 1 \times 2 \times 0.6 LG$
$3 = J-Y(ST)Y 2 \times 2 \times 0.6 LG$
$4 = J - Y(ST)Y 4 \times 2 \times 0.6 LG$
5 = LiYY 2 × 0.25 mm <sup>2</sup>
6 = LiYY 4 × 0.25 mm <sup>2</sup>
7 = Scope of supply sensor strip or LiYY 5 x 0.25 mm <sup>2</sup>
8 = Route empty pipe with pull-wire inner diameter 10 mm

HS Main switch NOT Emergency stop switch UT **CLOSE DOOR** manual trigger switch (only for F variant) KΒ Mechanical contact PS Programme switch ST Emergency stop button ĸ Contact sensor inside KA Contact sensor outside TOE Electric strike RM Bolt message RS Smoke switch (only with F variant) RSZ Smoke switch control unit (only with F variant) TS Door closers MK Magnetic contact

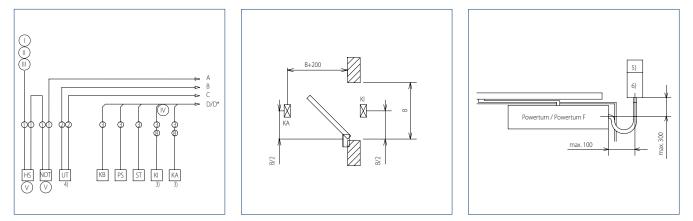
**ABBREVIATIONS** 

### Notes:

Cable plans can also be prepared for specific projects after receipt of order
 Version of standard cable plans in accordance with GEZE specifications
 Wiring in accordance with VDE 0100

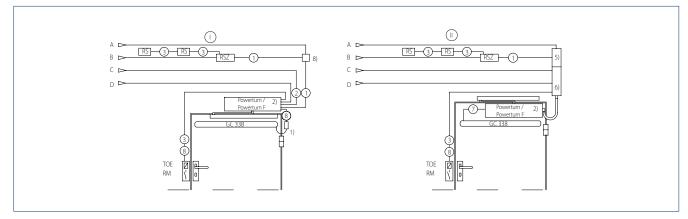
- Allow the cable for the drive to project at least 1500 mm out of the wall

1 Door transmission cable (included in the scope of supply for sensor strip), cable guide through a hole in the door leaf is not permitted for fire protection doors. I 2 Cable exit for drive unit, see installation drawings for Powerturn I 3 Cable included in sensor scope of supply I 4 Install close to door I 5 Mains connection box W×H×D min.  $65 \times 65 \times 57$  with PG-11 duct, on site I 6 Low-voltage connection box W×H×D min.  $94 \times 65 \times 57$  with PG-11 duct, on site I 7 e.g. Door transmission cable 8-wire, mat.no. 066922 I 8 Branch box, on site

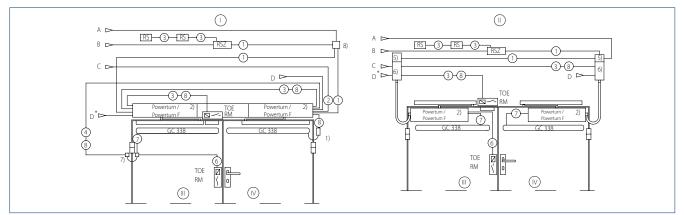


I = Power supply circuit 230 V / 50 Hz | II = Safety fuse 10 A | III = Connection value 200 W, 1 A single, double leaf with manual passive leaf; connection value 400 W, 1 A for double leaf | IV = And / Or | V = Option

### SINGLE LEAF



### DOUBLE LEAF



I = Transom installation | II = Door leaf installation | III = Passive leaf | IV = Active leaf



### SWING DOOR

2 16/228-242

2.17 - 2.3 Erster Rechnung

# Accessories

Even safer, more convenient and more individual – be inspired by our range of accessories for your particular needs or the specific installation situation of your swing door system. From mounting plates and roller guide rails to a variety of switches and push buttons to many more service tools – we are happy to help you with questions and choosing products regarding your automatic swing door systems.

# Cover, mounting plate, link arm, roller guide rail

### COVER

The cover is available in an anodised or coloured finish. In the case of double leaf versions, the cover can be ordered as a continuous variant or with intermediate cover.

### **MOUNTING PLATE FOR DRIVES (OPTION)**

A mounting plate may be necessary, depending on the installation situation. A mounting plate is generally recommended to make installation easier.

A respective mounting plate is available according to the cover version.

### LINK ARMS

are offered for different reveal depths.

### **ROLLER GUIDE RAIL WITH LEVER**

Installation depends on the type of installation chosen.





Mounting plate

Link arm



Roller / guide rail with lever

# Operating automatic swing doors

## PROGRAMME SWITCHES FOR SELECTION OF THE MODE OF OPERATION FOR AUTOMATIC SWING DOORS

GEZE offers programme switches for a wide range of individual demands. The switches are suitable for universal use – for surface-mounted or flush-mounted installation. The following switch types are available:

### **DISPLAY PROGRAMME SWITCH (DPS)**

### **KEYPAD PROGRAMME SWITCH (TPS)**

### **MECHANICAL PROGRAMME SWITCH (MPS)**

The following modes of operation can be set:

- → "Hold open"
- The door moves to the OPEN position and remains open. Movement detector or opening push button are deactivated. • "Night"
- The movement detectors are switched inactive, the door closes. The door can only be opened with a mechanical contact (KB) or manual release. Option: The door leaves are locked electrically to prevent forced opening.
- "Exit only" (one-direction operation from the inside to the outside)
   The door only opens and closes when someone goes out from the inside. The movement detector outside is switched inactive, the one inside is switched active.
- → "Automatic"

The door opens as soon as it is activated via the movement detector or keys, and closes after a certain time that can be individually adjusted. Safety sensors protect the leaves' travel path. If there is someone in the door opening, the door will not close.

- → "OFF" (depending on the model) Drive motor, locking mechanism, activation and safety sensors are switched off, the door leaves can be opened manually.
- → Key switch
- The programme switch can be disabled using a key switch.

### **PROTECTION OF THE PROGRAMME SWITCHES**

The mechanical programme switch (MPS) is also available in a lockable version. The display programme switch (DPS) and keypad programme switch (TPS) can be combined with a key switch. Alternatively, the DPS and TPS can also be secured using a code.







Display programme switch (DPS)

Keypad programme switch (TPS)

Mechanical programme switch (MPS)

**Note:** More detailed information about the following accessories can be found in the catalogue: **GEZE activation devices and** sensors

# Automatic activation

### **RELIABLE ACTIVATION WITH GEZE SENSORS**

### **RADAR MOVEMENT DETECTOR**

Radar movement detectors register all objects that move within the radar field. All movements within the radiation range are recorded as a switching pulse which is forwarded as a door opening signal. The pre-programmed convenience setting of the GEZE radar movement detectors ensures they can be put into operation quickly. Automatic configuration is possible via keys or a remote control. Reliable detection is achieved with a clearly defined radar field. Energy can be saved through detection of people's direction of movement. Unwanted door opening is avoided since cross-traffic can be faded out.





GC 308 radar movement detector

GC 302 radar movement detector

# Manual activation

### **PUSH BUTTONS AND SWITCHES**

GEZE push buttons and switches for the wireless activation of doors – reliable, convenient and safe at the push of a button.

### **CAPACITIVE PUSH BUTTON**

The design-oriented and sturdy LED sensor switch makes intuitive and straightforward operation possible. No great efforts are needed for activation – touching the button slightly is sufficient. Suitable for indoor and outdoor use, the LED sensor switch can be recognised easily in the dark thanks to the blue LED lighting. In addition, the sensor has Braille lettering on it. A visual signal signalises activation through the push button. The push button is waterproof, impact-resistant and protected against vandalism. This makes it very well suited for outdoor use or installation in the floor.

### **NON-CONTACT PROXIMITY SWITCH**

With the GC 307+, interior doors without a haptic perception requirement can also be activated cleanly and comfortably. The sensor ensures bacteria-free access to toilets, for example, or germ-free conditions in hotel kitchens, swimming pools and doctors' surgeries. The pulse generator is installed at hand height and precisely detects people and objects – independently of their direction of movement – both in the direct vicinity of only 10 cm, as well as 60 cm away. The different scanning ranges can be optimally adapted to existing environmental conditions and the interests of the user groups. The non-contact sensors offer a high level of operating comfort – people only need to approach them to trigger the automatic opening mechanism – and the advantage of absolute hygiene. The optimum system structure permits simple and time-saving installation in the flush-mounted box. The colour of the LEDs can be adjusted, and individual pictograms can also be applied to illustrate the area of application.

### WIRELESS ACTIVATION

GEZE radio transmitter are used for wireless activation of doors and windows as a multi-channel solution. For every additional channel, an additional electrical device or function can be switched at the push of a button. Thanks to the very small size of the wireless modules, radio transmitter can easily be integrated in the drive or in a flush-mounted box. They can also be clipped directly into the elbow switch and mounted without wires, e.g. on glass.



Push button



Wireless activation



LED sensor switch





GC 307+ non-contact proximity switch



Plastic elbow switch

Elbow switch stainless steel IP65

# Protection

### THE RIGHT CHOICE OF PROTECTION

The GEZE product range of safety sensors offers the right solution for every door situation and every type of use. Because the choice of safety sensors is an important factor in enabling you to operate automatic doors providing barrier-free access conveniently, reliably and economically, and to adapt their functionality to users' needs in the best way possible.

Sensor strips are the right choice for standard door situations with door widths up to 1200 mm and door heights up to 3500 mm. A more compact and universal design, particularly on doors with narrow frames, is achieved via the GC GR sensor roller guide rail or sensor and link arm adapter.

From a visual perspective, we recommend the combination of a GC 338 sensor on the wide door leaf and a GC 335 on the narrow door leaf on asymmetrical double leaf door systems with passive leaf widths below 600 mm.

If an automatic door with vertical push-bars, or a door width exceeding 1200 mm is planned, the GC 342 / GC 342+ laser scanners offer more cost-effective protection. Depending on the door configuration and door environment, it can mean a time saving of up 50% for the engineer with respect to installation and commissioning.

If the appearance, or protecting the cabling between the sensor and drive is important, the drip loop can be concealed on all drive units and sensors. The cable from the sensor to the drive is guided between the door leaf and the door frame by a drip loop.



### SAFETY WIDTHS OF SWING DOOR SENSORS:

\* = min./max. door width dependent on drive

### GC 342 / GC 342+ LASER SCANNERS

The compact and space-saving GC 342 and GC 342+ laser scanners are used for the protection of automatic swing doors in accordance with EN 16005 / DIN 18650. The sensors are mainly used with difficult floor conditions (e.g. entrance mats, metal rails, dark and light-absorbing floor coverings). The close-meshed detection field with a large detection area over the whole door width provides special protection at the primary and secondary closing edges.

In addition, the sensors have a wall blanking feature which makes it possible to guarantee maximum safety even with doors that open against walls, radiators, windowsills, or similar. The sensors automatically teach themselves their environment. Protection of all GEZE swing door drives with door leaf widths of up to 1600 mm is achieved with only one sensor system.

The installation on the upper edge of the door near the hinge is cleverly solved and therefore is quick and easy to achieve. The door leaf width to be protected is taught-in using hand movements. Settings, such as position of the master module on the hinge side/opposite hinge side, immunity, background monitoring and monitoring of the secondary closing edge can be conveniently adjusted using the DIP switch.

In comparison to the GC 342, the GC 342+ laser scanner has four detection areas. The GC 342+ is primarily mounted on the opposite hinge side. The four detection areas make it possible to protect a large area when the door is open. The door only closes once the door swing range is clear to the frame. The innermost curtain runs vertically along the door leaf at 0°, and significantly increases protection of the secondary closing edge – mechanical finger protection can be eliminated. Finally, the GC 342+ has a separate output for non-contact and hygienic opening at hand or foot height, for instance. Two freely-definable virtual fields can be taught in at any height.





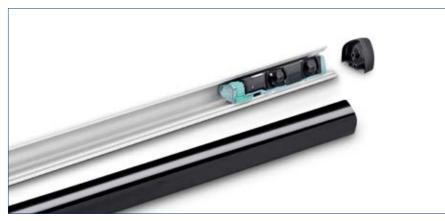
GC 342 laser scanner

GC 342+ laser scanner

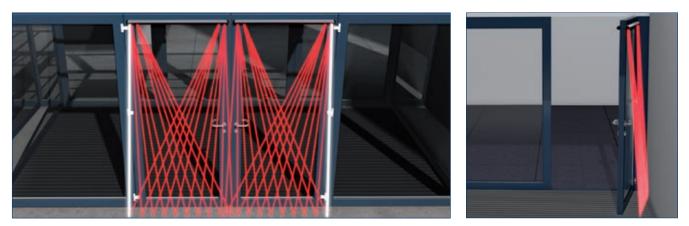
### GC 338 SENSOR STRIP

The energy and space-saving GC 338 sensor strip has a very large safety range and offers enhanced protection on the primary and secondary closing edges. In addition, the sensor has a wall blanking feature which makes it possible to guarantee maximum safety even with doors that open against walls. Protection of all GEZE swing door drives with door leaf widths of up to 1500 mm is achieved with only one sensor system. GC 338 not only offers advantages for installation and commissioning – the complete door system is supplied via an interface. The sensor automatically adapts to its environment. This saves teach-in time and installation costs. The GC 338 sensor strip has the following features:

- $\rightarrow$  Reliable function under all weather and floor conditions up to 3.5 m in accordance with DIN 18650 / EN 16005
- $\rightarrow$  One sensor system protects door leaf widths up to 1500 mm
- $\rightarrow$  Wall blanking: The sensor can detect a wall and blank it out automatically
- $\rightarrow~$  Attractive roller guide rail can even be used with slim door profiles
- $\rightarrow$  Current consumption in operating mode: 200 mA
- → Quick and easy installation thanks to the SNAP IN mechanism. With its help, modules can be positioned and secured in the profile without tools



GC 338 sensor strip



Frontal detection field

Wall protection

### INSTALLATION ON DOORS WITH VERTICAL PULL HANDLES AND/OR DOOR WIDTHS >1200 MM

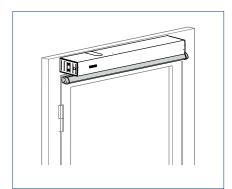
The GC 342 laser scanner is generally recommended for protection in accordance with the standards DIN 18650/ EN 16005.

GC 342 reduces installation and commissioning by up to 50% compared with sensor strips.

### GC GR SENSOR ROLLER GUIDE RAIL - THE IDEAL COMBINATION OF SAFETY AND DESIGN

The GC GR sensor roller guide rail is available for the complete Slimdrive EMD drive series and all Powerturn drive variants. The sensor and the roller guide rail can be put together in such a way that they look like a single component. This means it can be mounted together with the safety components even on narrow door profiles. The result is an even more compact and more integrated design. The features at a glance:

- → Suitable for single and double leaf swing doors
- → Available for all Slimdrive EMD and Powerturn variants and roller guide rails
- → Sensor and roller guide rail profile are available separately, facilitating retrofitting to existing systems
- → A rain cover is available as an accessory





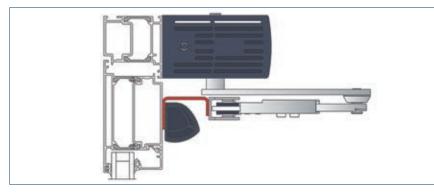
GC GR sensor roller guide rail

### ADAPTER FOR SENSOR AND LINK ARM FOR SLIMDRIVE EMD AND POWERTURN – INTEGRATION OF LINK ARM AND SENSOR STRIPS ON ONE LEVEL

Exactly similar as in case of the GC GC sensor roller guide rail, the adapter for link arm and sensor enables an optimal installation on doors with narrow frames. Benefits:

 $\rightarrow~$  Better integration of link arm and sensor strip in the door design

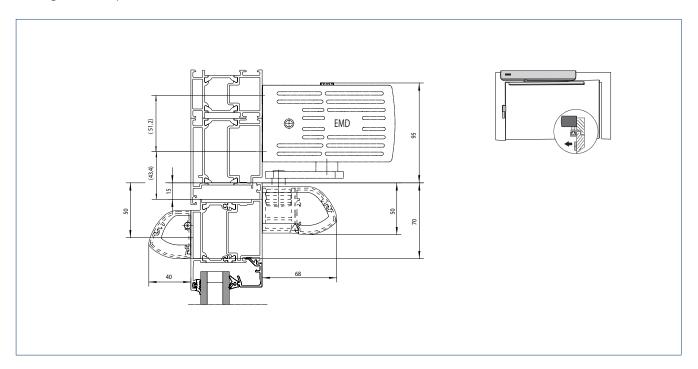
→ Simple installation, especially for narrow door frames





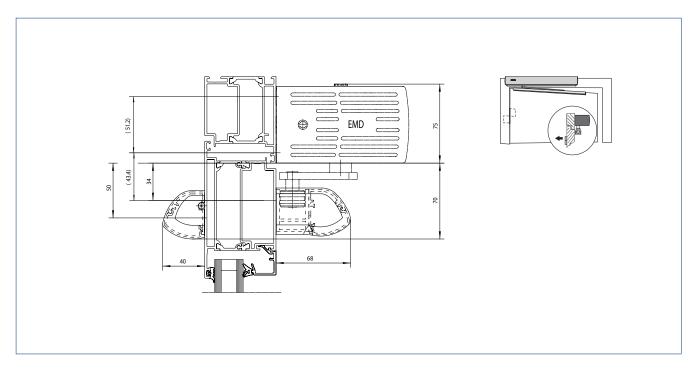
Adapter for sensor and link arm for Slimdrive EMD and Powerturn swing door drives

### EMD AND GC GR (GC 338) TRANSOM INSTALLATION WITH ROLLER GUIDE RAIL ON THE HINGE SIDE Drawing no. 70106-ep35



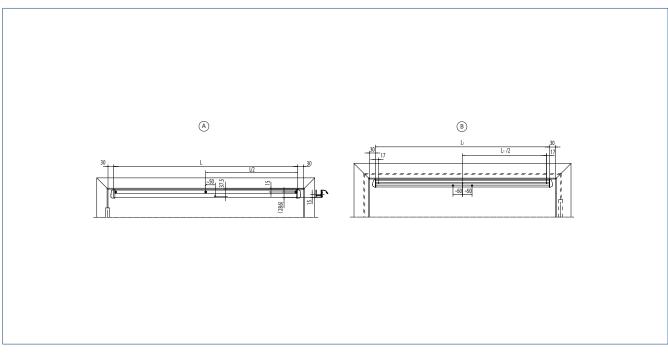
## EMD AND GC GR (GC 338) TRANSOM INSTALLATION WITH ROLLER GUIDE RAIL ON THE OPPOSITE HINGE SIDE

### Drawing no. 70106-ep35



### GC GR (GC 338) 1200 MM WITH ROLLER GUIDE RAIL, SINGLE LEAF

Drawing no. 70106-ep35



A = Hinge side | B = Opposite hinge side | L = Length

 $\rightarrow$  **Note:** For double leaf doors, additionally mirror this view.

# Service tools

### **GEZECONNECTS**

The software GEZEconnects makes wireless connection via Bluetooth possible between a computer and the automatic door systems from GEZE. All door system settings can be carried out via an intuitive graphic interface, stored, sent by e-mail and transferred to a word processing programme as a protocol. Diagnosis functions show the most important function parameters of the door system in real time, so that faults are recognised at a glance and can be eliminated. All the pre-settings can be taken over very easily for further door systems. The convenient documentation of commissioning, maintenance and diagnosis protocols as well as all statistical data can be downloaded at any time. Password protection to freeze operating parameters and servicing data guarantees there will be no unauthorised modifications.

### **ST 220 SERVICE TERMINAL**

Mobile, handy and straightforward – that is parameter setting for the automatic GEZE door systems using the ST 220 service terminal. Communication and data exchange between the service terminal and the drive unit is via an integrated RS485 interface. The large illuminated display is easy to operate thanks to the plain text display. The service terminal is equipped with a readout function for servicing and diagnosis work. Power is supplied via the door system. Password protection to freeze operating parameters and servicing data guarantees there will be no unauthorised modifications made.

A service adapter for the ST 220 or a service adapter for the bluetooth interface which is available separately can be inserted into the side of the Powerturn drive models, thus permitted operating parameters and service data to be read out and parameters to be set without the drive cover having to be removed.



#### Notes:

 - GEZE Service Tools are available for the drive series Slimdrive EMD and Powerturn.
 - Changes to parameters on GEZE drives may only be carried out by experts authorised by the manufacturer (GEZE) in accordance with DIN 18650/EN 16005





ST 220 service terminal



GEZEconnects



Service adapter Bluetooth interface



Bluetooth interface



### **SWING DOOR**

# References

Discover a selection of innovative buildings which we were able to equip with our automatic swing door systems. Customers all over the world have praised the diverse functions and elegant design: Be it a first-class hotel, a state-ofthe-art hospital, a representative retirement home, a renowned museum, an elegant administrative building or a heavily frequented station – the products and services by GEZE for automatic swing doors are the first choice. We provide convenient and reliable drive units.





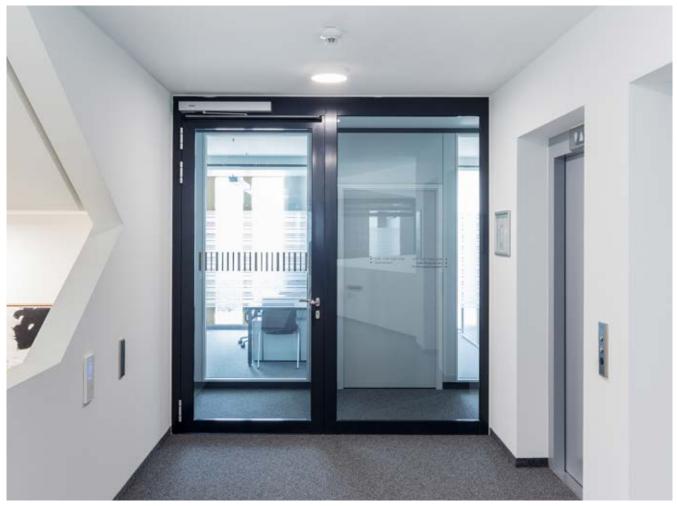
ECturn Inside swing door drive, private house (photo: Lazaros Filoglou / GEZE GmbH)



ECturn swing door drive with LS990 elbow switch (photo: Studio BE / GEZE GmbH)



Powerturn swing door drive with GC 342 laser scanner and TZ 320 door control unit, experimenta Heilbronn, Germany (photo: Jürgen Pollak / GEZE GmbH)



Powerturn swing door drive F/R with LS 990, Rathaus Leonberg, Germany (photo: Jürgen Pollak / GEZE GmbH)



Powerturn swing door drive with GC 338 sensor strip, experimenta Heilbronn, Germany (photo: Jürgen Pollak / GEZE GmbH)



Slimdrive EMD-F swing door drive with TZ 320 emergency exit control unit, Olgahospital Stuttgart, Germany (photo: Jürgen Pollak/GEZE GmbH



Slimdrive EMD F-IS swing door drive and GC 338 sensor strip, Klinikum Düsseldorf, Germany (photo: Lothar Wels/ GEZE GmbH)

### We are GEZE.

### For liveable buildings

GEZE stands for innovation, high quality and comprehensive support of building technologies. From the initial idea, planning and operational implementation with standard products to customised system solutions and individual service and maintenance plans. We offer an extensive product range of door, window and safety technology products and are a major driving force behind the digital networking of building automation.

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