

# Product data sheet

# Powerturn IS



Electromechanical swing door drive system for double leaf doors with closing sequence control

## AREAS OF APPLICATION

- Right and left double leaf single-action doors
- Single-action doors up to 3200 mm hinge clearance, 1600 mm leaf width and 600 kg weight
- Minimum hinge clearance 1600 mm
- Interior and exterior doors with high access frequency
- Transom installation hinge and opposite hinge side



## 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 latching action in regular operation, which accelerates the door shortly before the closed position
- Mechanical and electrical closing sequence control holds the active leaf in the waiting position until the passive leaf is closed
- Low-energy function opens and closes the door with reduced speed, fulfilling the highest safety demands
- Obstacle detection detects an object 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 following light manual pressure on the door leaf
- Drive can be used with roller guide rail or link arm
- Servo function for motorized support when manually opening the door
- Optional radio reception board for wireless activation by radio transmitter
- Freely configurable inputs and outputs for different functions
- Can be networked, and integrated into the building automation via open standard (BACnet)

## TECHNICAL DATA

| Productname   | Powerturn IS             |
|---|--------------------------|
| Leaf weight (max.) 1-leaf                                       | 600 kg                   |
| Leaf width (min.-max.)  | 800 mm – 1600 mm         |
| Minimum passive leaf width                                      | 800 mm                   |
| passive leaf width max.   | 1600 mm                  |
| active leaf width min.  | 800 mm                   |
| active leaf width max.  | 1600 mm                  |
| Reveal depth (max.)   | 560 mm                   |
| Opening angle (max.)  | 136 °                    |
| DIN left  | Yes                      |
| DIN right   | Yes                      |
| Transom installation opposite hinge side with link arm          | Yes                      |
| Transom installation opposite hinge side with roller guide rail | Yes                      |
| Transom installation hinge side with roller guide rail          | Yes                      |
| Mechanical latching action                                      | Yes                      |
| Electrical latching action                                      | Yes                      |
| Electrical closing sequence control                             | Yes                      |
| Mechanical closing sequence control                             | Yes                      |
| Disconnection from mains  | Main switch in the drive |

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|   |  |
|---|--|
| Power supply for external consumers (24 V DC) | 1.2 A  |
| Service temperature                           | -15 - 50 °C  |
| Mode of operation                             | Automatic, Off, Permanently open, Shop closing, Night                                |
| Automatic function                            | Yes  |
| Low-energy function                           | Yes  |
| function smart swing                          | Yes  |
| Servo function                                | Yes  |
| Obstacle detection                            | Yes  |
| Automatic reversing                           | Yes  |
| Push & Go                                     | adjustable   |
| Operation                                     | Programme switch DPS, Programme switch integrated in the drive, MPS programme switch |
| Standard conformity                           | DIN 18650, EN 16005  |
| Smoke switch integrated                       | No   |

## PART

### GC GR FOR GC 338

Sensor roller guide rail Powerturn for GC 338 sensor strip



| Designation                     | Description   | Ident-<br>No. | Colour           | Type of installation                     |
|---------------------------------|---|---------------|------------------|--|
| GC GR for GC 338<br>Powerturn   | For Powerturn / Powerturn F, installation on the hinge side, lever length 330 mm          | 157451        | according to RAL | Transom installation hinge side          |
| GC GR for GC 338<br>Powerturn   | For Powerturn / Powerturn F, installation on the opposite hinge side, lever length 450 mm | 157476        | EV1              | Transom installation opposite hinge side |
| GC GR for GC 338<br>Powerturn   | For Powerturn / Powerturn F, installation on the opposite hinge side, lever length 450 mm | 157477        | according to RAL | Transom installation opposite hinge side |
| GC GR for GC 338<br>Powerturn * | For Powerturn / Powerturn F, installation on the opposite hinge side, lever length 450 mm | 157475        | according to RAL | Transom installation opposite hinge side |
| GC GR for GC 338<br>Powerturn   | For Powerturn / Powerturn F, installation on the hinge side, lever length 330 mm          | 157472        | EV1              | Transom installation hinge side          |
| GC GR for GC 338<br>Powerturn   | For Powerturn / Powerturn F, installation on the hinge side, lever length 330 mm          | 157450        | EV1              | Transom installation hinge side          |
| GC GR for GC 338<br>Powerturn   | For Powerturn / Powerturn F, installation on the opposite hinge side, lever length 450 mm | 157474        | EV1              | Transom installation opposite hinge side |
| GC GR for GC 338<br>Powerturn   | For Powerturn / Powerturn F, installation on the hinge side, lever length 330 mm          | 157473        | according to RAL | Transom installation hinge side          |

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## POWERTURN, DOUBLE LEAF \*

Electromechanical swing door drive system for double leaf doors with closing sequence control



## LINK ARM POWERTURN / POWERTURN F

For transom and door leaf installation with reveal depths up to 560 mm



| Designation                      | Description  | Ident-No. | Colour           |
|----------------------------------|--|-----------|------------------|
| Link arm Powerturn / Powerturn F | Length 245 mm for reveal depth / 20 mm to 160 mm with sensor link arm, / -30 mm to 110 mm without sensor link arm  | 154707    | EV1              |
| Link arm Powerturn / Powerturn F | Length 645 mm for reveal depth / 420 mm to 560 mm with sensor link arm, / 370 mm to 510 mm without sensor link arm | 154721    | according to RAL |
| Link arm Powerturn / Powerturn F | Length 245 mm for reveal depth / 20 mm to 160 mm with sensor link arm, / -30 mm to 110 mm without sensor link arm  | 154709    | according to RAL |
| Link arm Powerturn / Powerturn F | Length 445 mm for reveal depth / 220 mm to 360 mm with sensor link arm, / 170 mm to 310 mm without sensor link arm | 154714    | EV1              |
| Link arm Powerturn / Powerturn F | Length 545 mm for reveal depth / 320 mm to 460 mm with sensor link arm / 270 mm to 410 mm without sensor link arm  | 154717    | EV1              |
| Link arm Powerturn / Powerturn F | Length 445 mm for reveal depth / 220 mm to 360 mm with sensor link arm, / 170 mm to 310 mm without sensor link arm | 154715    | according to RAL |
| Link arm Powerturn / Powerturn F | Length 545 mm for reveal depth / 320 mm to 460 mm with sensor link arm / 270 mm to 410 mm without sensor link arm  | 154718    | according to RAL |
| Link arm Powerturn / Powerturn F | Length 645 mm for reveal depth / 420 mm to 560 mm with sensor link arm, / 370 mm to 510 mm without sensor link arm | 154720    | EV1              |
| Link arm Powerturn / Powerturn F | Length 215 mm for reveal depth / -10 mm to 130 mm with sensor link arm, / -30 mm to 80 mm without sensor link arm  | 165818    | EV1              |
| Link arm Powerturn / Powerturn F | Length 215 mm for reveal depth / -10 mm to 130 mm with sensor link arm, / -30 mm to 80 mm without sensor link arm  | 159376    | according to RAL |
| Link arm Powerturn / Powerturn F | Length 345 mm for reveal depth / 120 mm to 260 mm with sensor link arm, / 70 mm to 210 mm without sensor link arm  | 154712    | according to RAL |
| Link arm Powerturn / Powerturn F | Length 345 mm for reveal depth / 120 mm to 260 mm with sensor link arm, / 70 mm to 210 mm without sensor link arm  | 154711    | EV1              |

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## COVER POWERTURN

For the Powerturn swing door drive, including additional side panels and shaft covers painted with cover colour



| Designation                                  | Description   | Ident-No. | Colour           |
|--|---|-----------|------------------|
| Cover Powerturn                              | Cover including end caps and shaft covers painted in the cover colour | 161927    | EV1              |
| Cover extension kit for GEZE Powerturn       |   | 157830    |                  |
| Intermediate cover kit for GEZE Powerturn    |   | 157831    |                  |
| Powerturn additional side panel / axis cover |   | 162746    | silver-coloured  |
| Cover Powerturn                              | Cover including end caps and shaft covers painted in the cover colour | 160326    | according to RAL |

## POWERTURN / POWERTURN F ROLLER GUIDE RAIL

For door leaf installation on the hinge side or opposite hinge side with roller guide rail



| Designation                     | Description  | Ident-No. | Colour           | Type of installation                       |
|---------------------------------|--|-----------|------------------|--|
| Roller guide rail Powerturn (F) | For door leaf installation opposite hinge side, length 738 mm, lever length 450 mm | 153818    | EV1              | Door leaf installation opposite hinge side |
| Roller guide rail Powerturn (F) | For door leaf installation hinge side, length 738 mm, lever length 330 mm          | 153815    | EV1              | Door leaf installation hinge side          |
| Roller guide rail Powerturn (F) | For door leaf installation hinge side, length 738 mm, lever length 330 mm          | 153816    | according to RAL | Door leaf installation hinge side          |
| Roller guide rail Powerturn (F) | For door leaf installation opposite hinge side, length 738 mm, lever length 450 mm | 153819    | according to RAL | Door leaf installation opposite hinge side |

## POWERTURN / POWERTURN F ROLLER GUIDE RAIL

For transom installation on the hinge side or opposite hinge side with roller guide rail



| Designation                     | Description  | Ident-No. | Colour           | Type of installation                     |
|---------------------------------|--|-----------|------------------|--|
| Roller guide rail Powerturn (F) | For transom installation opposite hinge side, length 691 mm, lever length 450 mm | 153813    | according to RAL | Transom installation opposite hinge side |
| Roller guide rail Powerturn (F) | For transom installation opposite hinge side, length 691 mm, lever length 450 mm | 153812    | EV1              | Transom installation opposite hinge side |
| Roller guide rail Powerturn (F) | For transom installation hinge side, length 691 mm, lever length 330 mm          | 153790    | according to RAL | Transom installation hinge side          |
| Roller guide rail Powerturn (F) | For transom installation hinge side, length 691 mm, lever length 330 mm          | 153787    | EV1              | Transom installation hinge side          |

## ACCESSORIES

### CONNECTOR PLUG POWERTURN / EMD 230 V

230 V connection and GEZE logo for the Powerturn / EMD



| Designation                      | Description                    | Ident-No. | Colour |
|----------------------------------|--------------------------------|-----------|--------|
| Connection Powerturn / EMD 230 V | Connector plug Powerturn / EMD | 156890    | black  |

### SPINDLE EXTENSION POWERTURN

Available lengths 30 mm and 50 mm



| Designation                 | Description | Ident-No. | Colour           |
|-----------------------------|-------------|-----------|------------------|
| Spindle extension Powerturn | V = 50 mm   | 153827    | according to RAL |
| Spindle extension Powerturn | V = 30 mm   | 153824    | according to RAL |
| Spindle extension Powerturn | V = 50 mm   | 153826    | EV1              |
| Spindle extension Powerturn | V = 30 mm   | 153822    | EV1              |

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## INSTALLATION KIT FOR MECHANISM FOR INTEGRATED CLOSING SEQUENCE CONTROL

For double leaf doors with closing sequence control to ensure the correct door closing sequence



| Designation   | Description   | Ident-No. |
|---|---|-----------|
| Mechanism for integrated closing sequence control Powerturn | complete installation kit for mechanical closing sequence control for active and passive leaf (tested in accordance with DIN EN 1158) | 154838    |

## GC 302

Radar movement detector for the activation of automatic doors



| Designation                      | Description   | Ident-No. | Colour           | Dimensions       | Output                       |
|----------------------------------|---|-----------|------------------|------------------|------------------------------|
| GC 302 R radar movement detector | Radar movement detector for the activation of automatic doors | 124087    | black            | 176 x 62 x 52 mm | Potential-free relay contact |
| GC 302 R radar movement detector | Radar movement detector for the activation of automatic doors | 124088    | according to RAL | 176 x 62 x 52 mm | Potential-free relay contact |

## GC 307+ \*

Non-contact proximity switch for activating automatic doors



| Designation           | Description  | Ident-No. | Colour       | Dimensions      | Type of installation       |
|-----------------------|--|-----------|--------------|-----------------|----------------------------|
| GC 307+ (hand icon) * | Proximity switch for the activation of / automatic doors   | 195727    | alpine white | 80 x 80 x 21 mm |                            |
| GC 307+ (WC icon) *   | Proximity switch for the activation of / automatic doors / Suitable for Powerturn, EMD, and standard sliding doors | 195751    | alpine white | 80 x 80 x 21 mm |                            |
| GC 307+ (hand icon) * | Proximity switch for the activation of / automatic doors   | 193226    | alpine white | 80 x 80 x 8 mm  | Flush-mounted installation |
| GC 307+ (WC icon) *   | Proximity switch for the activation of / automatic doors / Suitable for Powerturn, EMD, and standard sliding doors | 195750    | alpine white | 80 x 80 x 8 mm  | Flush-mounted installation |

**GC 342+ \***

Laser scanner for the protection of automatic swing doors with integrated object and wall blanking



| Designation              | Description   | Ident-No. | Colour                 | Dimensions       | Output                          |
|--------------------------|---|-----------|------------------------|------------------|---------------------------------|
| GC 342+ (left module) *  | Laser scanner with four laser curtains for optimal protection of the hazardous areas - including the secondary closing edge - of automatic swing doors; additional output for non-contact activation / consisting of sensor module, cable and accessories | 198693    | stainless steel colour | 145 x 88 x 68 mm | 3 potential-free relay contacts |
| GC 342+ (left module) *  | Laser scanner with four laser curtains for optimal protection of the hazardous areas - including the secondary closing edge - of automatic swing doors; additional output for non-contact activation / consisting of sensor module, cable and accessories | 198669    | black                  | 145 x 88 x 68 mm | 3 potential-free relay contacts |
| GC 342+ (left module) *  | Laser scanner with four laser curtains for optimal protection of the hazardous areas - including the secondary closing edge - of automatic swing doors; additional output for non-contact activation / consisting of sensor module, cable and accessories | 198671    | white                  | 145 x 88 x 68 mm | 3 potential-free relay contacts |
| GC 342+ (right module) * | Laser scanner with four laser curtains for optimal protection of the hazardous areas - including the secondary closing edge - of automatic swing doors; additional output for non-contact activation / consisting of sensor module, cable and accessories | 198694    | stainless steel colour | 145 x 88 x 68 mm | 3 potential-free relay contacts |
| GC 342+ (right module) * | Laser scanner with four laser curtains for optimal protection of the hazardous areas - including the secondary closing edge - of automatic swing doors; additional output for non-contact activation / consisting of sensor module, cable and accessories | 198670    | black                  | 145 x 88 x 68 mm | 3 potential-free relay contacts |
| GC 342+ (right module) * | Laser scanner with four laser curtains for optimal protection of the hazardous areas - including the secondary closing edge - of automatic swing doors; additional output for non-contact activation / consisting of sensor module, cable and accessories | 198692    | white                  | 145 x 88 x 68 mm | 3 potential-free relay contacts |

**LED SENSOR FOOT SWITCH \***

Switch for activating automatic doors





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| Designation              | Description   | Ident-No. | Colour          | Dimensions            | Output                |
|--------------------------|---|-----------|-----------------|-----------------------|-----------------------|
| LED sensor foot switch * | Capacitive push button for activating automatic door systems. Protection rating IP69K | 182936    | Stainless steel | 100 x 100 x 3 x 14 mm | PNP transistor output |

## AS 500 \*

AS emergency stop switch with glass pane and five interchangeable labels ("Nottaster öffnen", "Notschalter", "Emergency switch", "Tür schließen" and without text)



| Designation                  | Description  | Ident-No. | Colour           | Dimensions      | Type of installation       |
|------------------------------|--|-----------|------------------|-----------------|----------------------------|
| AS 500 emergency stop switch | Rocker control switch with glow lamp, glass pane and five exchangeable labels ("open emergency push button", "emergency stop switch", "emergency switch", "close door" and no label) | 120881    | alpine white/red | 80 x 80 x 21 mm | Flush-mounted installation |

## AIR 20

Active infrared light switch for monitoring the door handle of automatic swing doors



| Designation | Description  | Ident-No. | Colour | Dimensions      | Operating voltage |
|-------------|--|-----------|--------|-----------------|-------------------|
| AIR 20-Var  | Light switch for monitoring the door handle of automatic swing doors | 082689    | black  | 72 x 66 x 49 mm | 24 V              |

## EFT ELBOW SWITCH \*

Stainless steel elbow switch with IP65 IP rating for activating automatic doors



| Designation      | Description                       | Ident-No. | Colour          | Dimensions       | Type of installation         |
|------------------|-----------------------------------|-----------|-----------------|------------------|------------------------------|
| EFT elbow switch | Very flat design / IP rating IP65 | 119898    | Stainless steel | 75 x 250 x 17 mm | Surface-mounted installation |

### KFT ELBOW SWITCH

Plastic elbow switch, IP rating IP20, for activation of automatic doors



| Designation      | Description                      | Ident-No. | Colour                 | Dimensions       |
|------------------|----------------------------------|-----------|------------------------|------------------|
| KFT elbow switch | Very flat design, IP rating IP20 | 114077    | stainless steel colour | 90 x 179 x 23 mm |
| KFT elbow switch | Very flat design, IP rating IP20 | 114078    | white                  | 90 x 179 x 23 mm |

### LS 990 ELBOW SWITCH

Elbow switch for activating automatic doors



| Designation         | Description            | Ident-No. | Colour          | Dimensions       | Type of installation         |
|---------------------|------------------------|-----------|-----------------|------------------|------------------------------|
| LS 990 elbow switch | IP rating IP30 H=223mm | 128583    | Stainless steel | 81 x 223 x 18 mm | Flush-mounted installation   |
| LS 990 elbow switch | IP rating IP30 H=223mm | 128582    | Stainless steel | 81 x 223 x 51 mm | Surface-mounted installation |
| LS 990 elbow switch | IP rating IP30 H=223mm | 141041    | alpine white    | 81 x 223 x 51 mm | Surface-mounted installation |
| LS 990 elbow switch | IP rating IP30 H=223mm | 141042    | alpine white    | 81 x 223 x 18 mm | Flush-mounted installation   |

### LED SENSOR SWITCH \*

Switch for activating automatic doors



| Designation               | Description   | Ident-No. | Colour | Dimensions        | Output                |
|---------------------------|---|-----------|--------|-------------------|-----------------------|
| LED sensor switch *       | Capacitive push button with blue LED lighting and haptic Braille lettering for activating automatic door systems. Protection rating IP69K | 137529    | black  | 100 x 100 x 10 mm | PNP transistor output |
| LED sensor switch glass * | Capacitive push button with blue LED lighting for activating automatic door systems. Protection rating IP69K                              | 143412    | white  | 100 x 100 x 8 mm  | PNP transistor output |

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## MINI LED SENSOR SWITCH \*

Activation of all GEZE automatic doors



| Designation               | Description   | Ident-No. | Colour          | Dimensions          | Output                |
|---------------------------|---|-----------|-----------------|---------------------|-----------------------|
| LED sensor switch 20 mm * | Capacitive push button for activating automatic door systems. Protection rating IP69K | 143273    | Aluminium, matt | 28.5 x 28.5 x 21 mm | PNP transistor output |

## AS 500 ROCKER PUSH BUTTON

Activation of all GEZE automatic doors



| Designation               | Ident-No. | Colour       | Dimensions     | Type of installation       |
|---------------------------|-----------|--------------|----------------|----------------------------|
| AS 500 rocker push button | 120888    | alpine white | 80 x 80 x 9 mm | Flush-mounted installation |

## PULL SWITCH \*

For triggering calls in barrier-free bathrooms or WCs



| Designation | Description                  | Ident-No. | Colour | Dimensions      | Type of installation         |
|-------------|------------------------------|-----------|--------|-----------------|------------------------------|
| Pull switch | Incl. pull chain 500 mm long | 008607    | red    | 36 x 94 x 34 mm | Surface-mounted installation |

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## GC 308 \*

Radar movement detector with individual adjustment option for activating automatic doors



| Designation                        | Description                    | Ident-No. | Colour                 | Dimensions       | Output                       |
|------------------------------------|--------------------------------|-----------|------------------------|------------------|------------------------------|
| GC 308 R radar movement detector * | Activation of automatic drives | 203605    | stainless steel colour | 120 x 50 x 50 mm | Potential-free relay contact |
| GC 308 R radar movement detector * | Activation of automatic drives | 203603    | black                  | 120 x 50 x 50 mm | Potential-free relay contact |
| GC 308 R radar movement detector * | Activation of automatic drives | 203604    | white                  | 120 x 50 x 50 mm | Potential-free relay contact |

## DIGITAL PROGRAMMABLE TIMER \*

For time-controlled changes of modes of operation on automatic doors



## REED SWITCH \*

For non-contact monitoring of the door leaf position



| Designation   | Description  | Ident-No. | Colour |
|---------------|--|-----------|--------|
| Reed switch * | For non-contact monitoring of the door leaf position | 092777    | white  |

## E2 ROCKER PUSH BUTTON

Activation of all GEZE automatic doors



| Designation           | Ident-No. | Colour          | Dimensions           | Type of installation       |
|-----------------------|-----------|-----------------|----------------------|----------------------------|
| E2 rocker push button | 094013    | pure white matt | 80.8 x 80.8 x 9.3 mm | Flush-mounted installation |

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## LS 990 ROCKER PUSH BUTTON

Activation of all GEZE automatic doors



| Designation               | Ident-No. | Colour          | Dimensions      | Type of installation       |
|---------------------------|-----------|-----------------|-----------------|----------------------------|
| LS 990 rocker push button | 098396    | Stainless steel | 81 x 81 x 11 mm | Flush-mounted installation |

\* The products designated above may vary in form, type, characteristics, function, or availability depending on the country. Please get in touch with your GEZE contact person if you have any questions.