

# Product data sheet

# Powerturn F/R-IS



Electromechanical swing door drive system for double leaf fire and smoke protection doors with closing sequence control and integrated smoke switch



### AREAS OF APPLICATION

- Fire and smoke protection doors
- Hold-open systems with integrated hold-open function – country-specific specifications must be observed
- 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 1.720 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
- Integrated smoke switch control unit, whose signal closes the door automatically in the event of a fire
- 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 requirements
- Vestibule function controls the opening and closing of two consecutive doors (interlocking door system)
- Obstacle detection detects obstacles 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
- Drive can be used with roller guide rail or link arm
- Servo function for motorized support when manually opening the door
- Optional radio board for wireless activation by radio transmitter

### TECHNICAL DATA

Productname	Powerturn F/R-IS
Hinge clearance (min.-max.) 2-leaf, link arm	1720 cm - 3200 cm
Hinge clearance (min.-max.) 2-leaf, roller guide rail	2800 cm - 1720 cm
Reveal depth (max.)	300 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
Power supply for external consumers (24 V DC)	1.2 A
Modes of operation	Automatic, Off, Permanently open, Shop closing, Night
Automatic function	Yes
Low-energy function	Yes
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, Programme switch MPS
Suitability for fire protection doors	Yes
Integrated smoke switch	Yes

**PART****POWERTURN F/R-IS**

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**LINK ARMS POWERTURN / POWERTURN F**

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



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Name	Description	Ident-No.	Colour	Length
Link arms 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	245 mm
Link arms 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	acc. to RAL	645 mm
Link arms 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	acc. to RAL	245 mm
Link arms 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	445 mm
Link arms 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	545 mm
Link arms 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	acc. to RAL	445 mm
Link arms 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	acc. to RAL	545 mm
Link arms 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	645 mm
Link arms 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	215 mm
Link arms 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	acc. to RAL	215 mm
Link arms 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	acc. to RAL	345 mm
Link arms 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	345 mm

## COVER POWERTURN

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



Name	Description	Ident-No.	Colour	Length
Cover Powerturn	Cover including side parts 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 side parts and shaft covers painted in the cover colour	160326	acc. to RAL	

**POWERTURN / POWERTURN F ROLLER GUIDE RAIL**

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



Name	Description	Ident-No.	Colour	Length
Roller guide rail Powerturn (F)	For transom installation opposite hinge side, length 691 mm, lever length 450 mm	153813	acc. to RAL	691 mm
Roller guide rail Powerturn (F)	For transom installation opposite hinge side, length 691 mm, lever length 450 mm	153812	EV1	691 mm
Roller guide rail Powerturn (F)	For transom installation hinge side, length 691 mm, lever length 330 mm	153790	acc. to RAL	691 mm
Roller guide rail Powerturn (F)	For transom installation hinge side, length 691 mm, lever length 330 mm	153787	EV1	691 mm

**CONNECTOR PLUG POWERTURN 230 V**

230 V connection and GEZE logo for the Powerturn



Name	Description	Ident-No.	Colour
Connection Powerturn 230 V	Connector plug Powerturn / Powerturn F	156890	black

**INSTALLATION KIT FOR MECHANISM FOR INTEGRATED CLOSING SEQUENCE CONTROL**

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



Name	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
MONTAGESATZ IS-MECHANIK GEZE Powerturn (185223)		185223

## GC GR FOR GC 338

Sensor roller guide rail Powerturn for GC 338 sensor strip



Name	Description	Ident-No.	Colour	Length
GC GR for GC 338 Powerturn	For Powerturn / Powerturn F, installation on the hinge side, lever length 330 mm	157451	acc. to RAL	1200 mm
GC GR for GC 338 Powerturn	For Powerturn / Powerturn F, installation on the opposite hinge side, lever length 450 mm	157476	EV1	1500 mm
GC GR for GC 338 Powerturn	For Powerturn / Powerturn F, installation on the opposite hinge side, lever length 450 mm	157477	acc. to RAL	1500 mm
GC GR for GC 338 Powerturn	For Powerturn / Powerturn F, installation on the opposite hinge side, lever length 450 mm	157475	acc. to RAL	1200 mm
GC GR for GC 338 Powerturn	For Powerturn / Powerturn F, installation on the hinge side, lever length 330 mm	157472	EV1	1500 mm
GC GR for GC 338 Powerturn	For Powerturn / Powerturn F, installation on the hinge side, lever length 330 mm	157450	EV1	1200 mm
GC GR for GC 338 Powerturn	For Powerturn / Powerturn F, installation on the opposite hinge side, lever length 450 mm	157474	EV1	1200 mm
GC GR for GC 338 Powerturn	For Powerturn / Powerturn F, installation on the hinge side, lever length 330 mm	157473	acc. to RAL	1500 mm

## ACCESSORY

### POWERTURN 230 V T-DISTRIBUTOR

Optional 230 V connection for external peripheral device

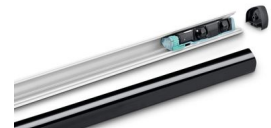


Name	Description	Ident-No.
Powerturn 230 V T-distributor	Optional 230 V connection for external peripheral device (max. 700 W, max. 7 A, AD 0.75 mm <sup>2</sup> )	166272



### GC 338

Sensor strip with standby mode for the protection of automatic swing and revolving doors



Name	Description	Ident-No.	Colour	Output	Operating voltage
GC 338 Pair of sensor strips 1200 mm	comprising two complete sensor strips for protection of the swivelling range of automatic swing and revolving doors in accordance with DIN 18650 / EN 16005	142825	acc. to RAL	Electrical relay	24 V
GC 338 Pair of sensor strips 1500 mm	comprising two complete sensor strips for protection of the swivelling range of automatic swing and revolving doors in accordance with DIN 18650 / EN 16005	142827	acc. to RAL	Potential-free relay contact	24 V
GC 338 Pair of sensor strips 1500 mm	comprising two complete sensor strips for protection of the swivelling range of automatic swing and revolving doors in accordance with DIN 18650 / EN 16005	142757	EV1	Electrical relay	24 V
GC 338 Pair of sensor strips 1200 mm	comprising two complete sensor strips for protection of the swivelling range of automatic swing and revolving doors in accordance with DIN 18650 / EN 16005	142219	EV1	Electrical relay	24 V
GC 338 Pair of sensor strips 1200 mm	comprising two complete sensor strips for protection of the swivelling range of automatic swing and revolving doors in accordance with DIN 18650 / EN 16005	142826	white RAL 9016	Electrical relay	24 V
GC 338 Pair of sensor strips 1500 mm	comprising two complete sensor strips for protection of the swivelling range of automatic swing and revolving doors in accordance with DIN 18650 / EN 16005	142828	white RAL 9016	Potential-free relay contact	24 V

### GC 342

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



Name	Description	Ident-No.	Colour	Dimensions	Operating voltage
GC 342 (left module)	consisting of sensor module, cable and accessories	167433	white RAL 9016	143 x 86 x 40 mm	24 V
GC 342 (right module)	consisting of sensor module, cable and accessories	167435	black	143 x 86 x 40 mm	24 V
GC 342 (left module)	consisting of sensor module, cable and accessories	167434	stainless steel optic	143 x 86 x 40 mm	24 V
GC 342 (left module)	consisting of sensor module, cable and accessories	167432	black	143 x 86 x 40 mm	24 V

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Name	Description	Ident-No.	Colour	Dimensions	Operating voltage
GC 342 Kit	comprising two sensors for securing the swivelling range of automatic swing doors in accordance with DIN 18650 / EN 16005	167439	white RAL 9016	143 x 86 x 40 mm	24 V
GC 342 (right module)	consisting of sensor module, cable and accessories	167437	stainless steel optic	143 x 86 x 40 mm	24 V
GC 342 Kit	comprising two sensors for securing the swivelling range of automatic swing doors in accordance with DIN 18650 / EN 16005	167438	black	143 x 86 x 40 mm	24 V
GC 342 (right module)	consisting of sensor module, cable and accessories	167436	white RAL 9016	143 x 86 x 40 mm	24 V
GC 342 Kit	comprising two sensors for securing the swivelling range of automatic swing doors in accordance with DIN 18650 / EN 16005	167440	stainless steel optic	143 x 86 x 40 mm	24 V

## INTEGRATED OPENING RESTRICTOR

For limiting the opening angle



Name	Description	Ident-No.
Integrated opening restrictor	which can be integrated easily in the Powerturn roller guide rails	179479

## SPINDLE EXTENSION POWERTURN

Available lengths 30 mm and 50 mm



Name	Description	Ident-No.	Colour	Length
Spindle extension Powerturn	V = 50 mm	153827	acc. to RAL	50 mm
Spindle extension Powerturn	V = 30 mm	153824	acc. to RAL	30 mm
Spindle extension Powerturn	V = 50 mm	153826	EV1	50 mm
Spindle extension Powerturn	V = 30 mm	153822	EV1	30 mm
Spindle extension Powerturn	V = 100 mm	153830	acc. to RAL	100 mm
Spindle extension Powerturn	V = 100 mm	153829	EV1	100 mm
Spindle extension Powerturn	V = 30 mm	184392	EV1	30 mm
Spindle extension Powerturn	V = 50 mm	184397	acc. to RAL	50 mm
Spindle extension Powerturn	V = 50 mm	184396	EV1	50 mm
Spindle extension Powerturn	V = 30 mm	184395	acc. to RAL	30 mm



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### ADAPTOR FOR SENSOR LINK ARM

For mounting the link arm at the same height as the sensor strip



Name	Description	Ident-No.	Colour
Adaptor for sensor link arm	For Powerturn, EMD / EMD-F and TSA 160 NT	144352	silver-coloured
Adaptor for sensor link arm	For Powerturn, EMD / EMD-F and TSA 160 NT	153126	acc. to RAL