

TORMAX 1102 – Swing Door Drive

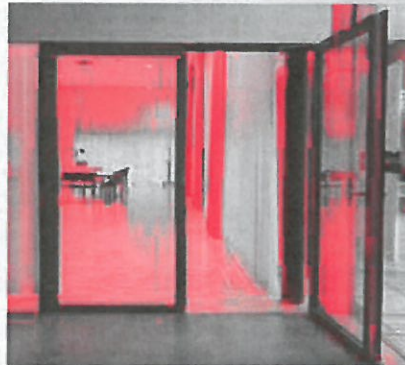
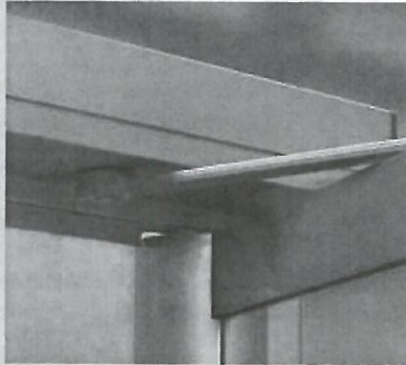


Modular design for an **economic** and **needs-oriented** solution
for **internal doors**.»

★★★★★
TORMAX
AUTOMATIC

Product Information

TORMAX 1102 – Swing Door Drive



Areas of application

- Single and double-leaved pedestrian passageways inside buildings, for example office buildings, hospitals, residential care homes and shopping malls
- Can be installed on every commercially available door, whether in newbuilds or refurbishments

Possible uses

- Low energy operation (without door-mounted safety features) for doors with a less frequent footfall
- Full power operation (with door-mounted safety features) for doors with a medium to high footfall
- Escape routes including panic route opening
- Power-Assist (power-assisted manual door opening)
- Barrier-free doors

Door leaf size and weight

- Up to 1.20 m or 125 kg

Pressure differential (wind loads)

- 30 Pa (25 km/h)

Integrated functionality

- Low energy operation
- 3 operating modes (Automat on, Automat off and permanently open)
- Normal operation (closing with/without motor support)
- Inverse operation (opening with/without motor support)
- Mechanical door closing function
- Latch action
- Push & Go or Pull & Close
- Integrated open end-stop

- Stand-by operation
- Power-Assist (power-assisted manual door opening)
- 1 selectable entry function e.g. matt function
- 1 selectable exit function e.g. door status, operating mode
- Emergency operation with battery unit (BTU)

Extended functionality with power door module (PDM)

- Full-Power operation
- Emergency movement (opening or closing irrespective of the safety features)
- Movement interruption in response to safety features ("Kill Switch")

Extended functionality with exterior door module (EDM)

- Additional operating modes: one way traffic and manual operation
- Door opener or motor lock
- Holding magnets
- Bell
- Key switch
- Additional activator

Extended functionality with multi-door module (MDM-A or MDM-B)

- Configurations for double-leaved doors
- Air locks and porches
- Integration into higher-ranking systems e.g. access control, building management system via potential-free contacts or bus combinations (only MDM-A)
- Double door coordination for hospitals (only with MDM-A)
- Barrier-free toilet (only with MDM-A)

Dimensions

- 85 × 128 × 640 mm
or with mechanical door coordinator
100 × 135 mm × door width

Mains connection

- 230 VAC 50 Hz or 115 VAC 60 Hz

Casing

- Anodised aluminium

Approvals, standards, durability

- CE
- EN 16005 (TÜV)
- DIN 18650 (TÜV) – 1 million test cycles at 4,000 cycles per day
- UL 325
- EN 61000-6-2, EN 61000-6-3, EN-60335-1

Accessories

- Upgrade modules (PDM, EDM, MDM-A or MDM-B)
- Rechargeable battery unit (BTU)
- Linkage (pull arm and push arm) and panic linkage (pull)
- Mechanical door coordinator (MDC)
- Casing profiles
- Installation profiles
- Connecting profiles
- User interface and ON/OFF switch



TORMAX 1201 – Swing Door Drive

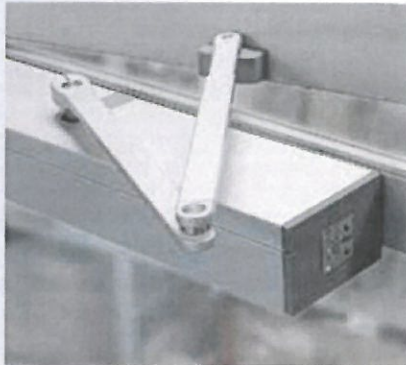


« This **powerful** and **quiet** swing door drive opens and closes external doors **reliably** even under **heavy wind loads**. Its modular design provides an **economic** and **needs-oriented** solution.»

★★★★★
TORMAX
AUTOMATIC

Product Information

TORMAX 1201 – Swing Door Drive



Areas of application

- Single and double-leaved pedestrian passageways at entrances and inside buildings, for example office buildings, hospitals, residential care homes and shopping malls
- Can be installed on every commercially available door, whether in newbuilds or refurbishments

Possible uses

- Low energy operation (without door-mounted safety features) for doors with a less frequent footfall
- Full power operation (with door-mounted safety features) for doors with a medium to high footfall
- Fire and smoke protection doors (observe country-specific regulations)
- Escape routes including panic route opening
- Power-Assist (power-assisted manual door opening)
- Barrier-free doors

Door leaf size and weight

- Up to 1.40 m or 250 kg

Wind loads

- 60 km/h

Integrated functionality

- Low energy operation
- 3 operating modes (Automat on, Automat off and permanently open)
- Normal operation (closing with/without motor support)
- Inverse operation (opening with/without motor support)
- Adjustable mechanical door closing function
- Latch action
- Push & Go or Pull & Close

- Integrated open end-stop
- Stand-by operation
- Power-Assist (power-assisted manual door opening)
- 1 selectable entry function e.g. matt function
- 1 selectable exit function e.g. door status, operating mode
- Emergency operation with battery unit (BTU)

Extended functionality with power door module (PDM)

- Full-Power operation
- Emergency movement (opening or closing irrespective of the safety features)
- Movement interruption in response to safety features ("Kill Switch")

Extended functionality with exterior door module (EDM)

- Additional operating modes: one way traffic and manual operation
- Door opener or motor lock
- Holding magnets
- Bell
- Key switch
- Additional activator

Extended functionality with multi-door module (MDM-A or MDM-B)

- Configurations for double-leaved doors
- Air locks and porches
- Integration into higher-ranking systems e.g. access control, building management system via potential-free contacts or bus combinations (only MDM-A)
- Double door coordination for hospitals (only with MDM-A)
- Barrier-free toilet (only with MDM-A)

Dimensions

- 85 × 128 × 640 mm
or with mechanical door coordinator
100 × 135 × mm × door width

Mains connection

- 230 VAC 50 Hz or 115 VAC 60 Hz

Casing

- Anodised aluminium

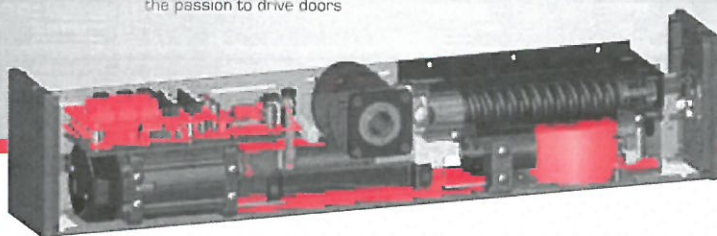
Approvals, standards, durability

- CE
- EN 16005 (TÜV)
- DIN 18650 (TÜV) – 1 million test cycles at 4,000 cycles per day
- UL 325
- UL 228
- EN 61000-6-2, EN 61000-6-3, EN 60335-1

Accessories

- Upgrade modules (PDM, EDM, MDM-A or MDM-B)
- Rechargeable battery unit (BTU)
- Linkage (pull arm and push arm) and panic linkage (pull)
- Mechanical door coordinator (MDC)
- Casing profiles
- Installation profiles
- Connecting profiles
- User interface and ON/OFF switch





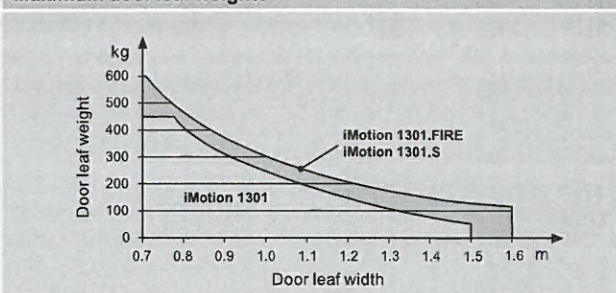
iMotion® 1301 Swing Door Drive



Areas of application	– external and internal doors, 1- and 2-leaf – fire and smoke seals, 1- ¹⁾ and 2 ³⁾ -leaf
Variants	– iMotion 1301.S – iMotion 1301.FIRE (1- and 2-leaf)
Options	– air lock function – nurse-bed function – integration into building management systems – user interface, 3 resp. 6 operating modes – key switch – with integrated door coordinator device
Drive type	– electromechanical – spring closing/opening if no power is available
Motor	AC permanent magnet, synchronous motor
Control system	micro-processor (32Bit/30 MHz)
Mains connection	1 × 230/1 × 115V AC, 50 ... 60Hz, 10 A
Power consumption	6 ... 250VA; 12 ... 330VA ^{1) 2)}
Inputs	8 programmable inputs, of which 4 testable safety features, expandable by modules
Outputs	3 programmable, short circuit-proof, expandable by modules
Sensor power supply	24V DC/0,75A; 24V DC/1,5A ^{1) 2)}
Electric latch	6 ... 24V DC/max. 24W, max. 2A
Interfaces	RS232, LIN bus, CAN bus
Approvals	CE incl. RoHS, TÜV, ETL, DIBt
Standards	DIN 18650/EN 16005, EN 60335-1, EN 61000-6-2, EN 61000-6-3, UL 325, DIN 18263-4

Durability	class 3 to DIN 18650-1: 2010
Protective class (drive)	IP 22 (installed in a dry location)
Ambient temperature	–20 °C to +50 °C
Installation location	lintel-mounted pull/push type; door mounted push type; panic fitting
Dimensions	100 × 135 × 640 mm 115 × 135 mm × door width ³⁾
Door sizes to DIN 1154	3...6
Inertia, door leaf	80 kgm ² / 100 kgm ² ^{1) 2)}
Angle of opening	standard linkage: max. 110° sliding lever: max. 110°
Opening speed	up to max. of 45°/s; 60°/s ^{1) 2)}
Closing speed	up to max. of 45°/s; 60°/s ^{1) 2)}
Hold open time	0 ... 60 s; permanently open

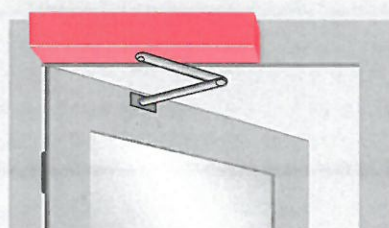
Maximum door leaf weights



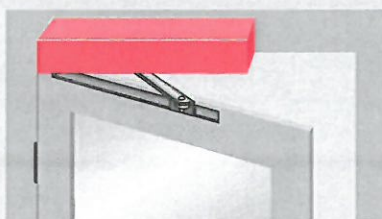
¹⁾ only iMotion 1301.FIRE

²⁾ only iMotion 1301.S

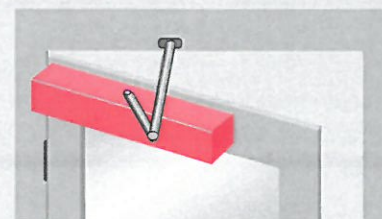
³⁾ iMotion 1301.FIRE with door coordinator device



Lintel-mounted with standard linkage



Lintel-mounted with sliding rail



Door leaf mounted with standard linkage
(1301 + 1301.S only)