

Specification Text - TORMAX iMotion® 2401 Sliding Door Drive

Automatic Sliding Door

Dimensions

Overall width mm
Overall height mm
Passage width mm (700 – 3800 mm)
Passage height mm

TORMAX iMotion® 2401 Sliding Door Drive

Automatic sliding door drive for single or double-leaf sliding doors, standard or telescopic

- Max. door leaf weight 1 x 450 kg (1 x 300 kg with emergency opening system with rubber cord), 2 x 300 kg, telescope 4 x 100 kg, 2 x 120 kg.
- Cross section header profile (HxD) 200x185 mm, telescope 200x275 mm
- In compliance with current European standards

(_) Electromechanical sliding door drive with wear-free synchronous motor technology and processor control. gearless, low-maintenance AC motor. Mains supply 115 VAC/60 Hz or 230 VAC/50 Hz.

- Protective system IP22, ambient temperature –15 °C to +50 °C.
RoHS conformity (EC directive 2002/95/EG).
- Easily replaceable noise-damped guide rail.
- Self adjusting double trolleys for ideal load distribution with adjustable counter roller.
- Mounting method: Lintel mounting, wall mounting, ceiling mounting.
- Tested by TÜV and certified according to EN IEC 60335, DIN 18650: 2010, EN ISO 13849: 2008 Performance level „d“.

Control System

- Automatic detection of system-specific data for optimal motion control, permanent operating diagnosis.
- Electronic obstacle recognition in closing and opening directions, adjustable reversing sensibility
- Automatic speed limit, including in the event of power failure and in manual mode.
- Emergency opening for autonomous door opening in the event of power failure in the unlocked state.
- 32 Bit/30 MHz processor for high performance.
- Interfaces: LIN BUS, CAN BUS, RS 232

- Fault recognition, display and log.
- Air-lock-function
- User interface with fault diagnosis and code lock. Selectable operating modes: OFF, AUTOMATIC 1, AUTOMATIC 2, EXIT , OPEN and MANUAL.
Freewheeling function and reset selectable on operating unit.
- 8 inputs (4 testable safety devices)
- 3 programmable outputs (optional feedback signals for different door statuses, such as: Closed, Open, Fault, Lock status, Light pulse, Gong pulse).
- Modular extendable by max. 2 I/O-modules (4 in-/outputs each)
- Integration in higher-level system possible, e.g. a building management system, optionally via potential-free contacts or a bus system.

Door leaves

- Sliding leaf
- Stationary lateral components
- Stationary fanlights, -part

Profiles

- TORMAX Profile System LR 12
 - Single-sheet glazing
 - Glazing thickness 6 – 12 mm
 - Type of glazing: wet, single-sheet/compound toughened safety glass
 - Facial width 22 mm, base height 80 mm, profile depth 20 mm

- TORMAX Profile System LR 22B
 - Single-sheet and insulating glazing
 - Glass thickness dry 8.5 – 10 mm, 21.5 – 23 mm, wet 6 – 28 mm
 - Facial width 30 mm, base height 78 mm, profile depth 34 mm

- TORMAX Profile System LR 32THERM
 - Insulating glazing
 - Glazing thickness max. 32mm,
 - Facial width 35mm, base height 85mm, profile depth 40mm

- Make.....

Floor guide

- Continuous floor guide in CNS, including glider in the sliding leaf
- Continuous floor guide in aluminium anodised E6/EV1 incl. gliding piece in sliding leaf

Colour of visible profiles

Elox anodising colour

Powder coating RAL

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Glazing

- Single-sheet safety glass 10 mm, heat soak tested
- Compound safety glass 10 mm, with 0.78 mm film
- Insulating glass comprising 2 x 5 mm single-sheet safety glass, heat soak tested, 22 mm
Overall thickness, U_g 1.3 W/m²K

- Insulating glass comprising 2 x 6 mm compound safety glass, film 0.78 mm, 22 mm
Overall thickness, Ug 1.3 W/m²K
- Double insulating glass comprising 2 x VSG, overall thickness 31.1mm, Ug
1.0W/(m²/K)
- Triple insulating glass comprising 3 x ESG, overall thickness 32mm, Ug 0.8W/(m²/K)
- Make.....

Sensors

Activation

- Radar
- Active infrared
- Passive infrared
- Contact-free hand switch
- Manual hand switch

Safety facility

- Dynamic safety (with/without testing)
- Static safety (with/without testing)
- Combined detector/alarm (radar and 3D protective light curtain AIR) with testing

Safety assessment conforming to DIN 18650 recommended. Within the scope of the guidelines for machines a declaration of conformity for the door installation is mandatory.

Accessories

- User interface with 6 operating modes and fault display, 45 x 45 mm suitable for
Legrand system
- 3-position operating mode switch mounted in plastic case
- Monitored battery module for emergency power supply
- Electromechanical lock (bistable lock) with feedback, acting only on hardened holding
bolts of the leaf, not acting on the toothed belt or deflection pulley
- Emergency opening including burglary protected emergency unlocking
- Emergency opening monitoring facility
- Emergency OFF switch, optionally surface-mounted or flush-mounted,
with glass cover and frame
- Integration in system network with contacts communication
- Integration in system network with bus communication