

Specification Text -TORMAX iMotion® 2202.A-R Sliding Door Drive

Automatic Sliding Door

Dimensions

Overall width mm
Overall height mm
Passage width mm (800 – 3800 mm)
Passage height mm

TORMAX iMotion® 2202.A-R Sliding Door Drive

Low maintenance, automatic sliding door drive for standard or telescope sliding doors in escape and rescue routes.

Monitored electro-mechanical emergency opening system with two-motor technology and a battery guarantees that the escape route opens.

- Maximum leaf weights 1 x 120 kg, 2 x 120 kg, telescope 4 x 60 kg, 2 x 60 kg.
- Cross section of the header profile (HxD) 100x142 mm, telescope 100x204 mm
- Meets current standards EN IEC 60335-1,-2-103, EN 16005, AutSchR
EN 61000-6-2,-3, EN ISO 13849-1:2008, Performance level „d“
- CE, TÜV approved

(_) Electro-mechanical sliding door drive with wear-free synchronous motor technology and programmable processor control which can be expanded using modules. Brushless and low maintenance AC motor with integral recognition of the door position.

Mains connection 115 VAC / 60 Hz or 230 VAC / 50 Hz

- IP22 protective system, ambient temperature –20 °C to +50 °C.
- Highly abrasion-resistant, easily replaceable guide rails with acoustic damping.
- Integral cable conduit and integral concealed sealing brushes.
- Mounting method: lintel, wall or ceiling mounted

Control system

- 32 bit/30 MHz processor for excellent computing power.
- 8 inputs (4 testable safety features)
- 3 programmable outputs (feedback on various door statuses such as closed, open, malfunction, lock status, light impulse, acoustic signal impulse, etc. can be selected).
- Can be extended in modules to a maximum of 2 I/O modules (4 in/outputs each).
- Interfaces: LIN Bus, RS 232.

- Automatic capture of system-specific data for optimum motion sequence, permanent operating diagnosis.
- Error recognition, recording and display.
- Multifunctional user interface with selectable operating modes: OFF, AUTOMAT 1, AUTOMAT 2, OUT, OPEN, MANUAL OPERATION. Detailed status and malfunction diagnosis. Free-wheeling function and reset can be activated from the user interface.
- Electronic obstacle recognition in the closing and opening direction, adjustable reversing sensitivity.
- Free-moving manual operation in the event of a power failure; can be fitted with automatic speed restriction as an option.
- Optional retaining brake which firmly and silently maintains the door leaf in its final position thus saving electric power
- Activation / deactivation of the escape route mode optionally either by a coded input on the user interface or with a separate, monitored key switch
- Monitored electro-mechanical emergency opening system with two-motor technology for self-actuating opening movement in the event of a power failure in the unlocked condition, at emergency opening commands or system errors
- Many programmable functions such as operating modes, feed-back, special functions, air lock / porch function etc.
- Can be integrated into every higher-level system e.g. building management system via potential-free contacts or a bus system at the operator's option.

Door leaves

- sliding leaves
- fixed side leaves
- fixed fanlights, in parts

Profiles

- TORMAX LR 12 profile system
 - Slender lightweight frame profile system for single sheet glazing
 - 3 sided door seal
 - Glazing 6 – 12 mm thick
 - Glazing method: for humid environment, toughened/laminated safety glass
 - Facial width 22 mm, base height 80 mm, profile depth 20 mm

- TORMAX LR 22B profile system
 - Lightweight frame profile system for single sheet or insulated glazing
 - Sealed around all sides
 - Glazing thickness dry 8.5 – 10 mm, 21.5 – 23 mm, humid conditions 6 – 28 mm
 - Facial width 30 mm, base height 78 mm, profile depth 34 mm

- TORMAX LR 32THERM profile system
 - Thermally separated profile system for insulating glazing
 - Multiple seals around all sides
 - Glazing thickness 32 ± 2 mm,
 - Facial width 35 mm, base height 85mm, profile depth 40 mm

- Made by

Floor guide

- Continuous stainless steel floor guide including shoe in the sliding leaf
- Continuous anodised aluminium (E6/EV1) floor guide including shoe in the sliding leaf

Colour of the visible profiles

- Eloxal – colour
- Powder coated RAL
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Glazing

- Toughened safety glass 10 mm, heat soak tested
- Laminated safety glass 10 mm, with 0.78 mm film

- Insulated glazing glass consisting of 2 x 5 mm toughened safety glass, heat soak tested, 22 mm overall thickness, Ug 1.3 W/m²K
- Insulated glazing glass consisting of 2 x 6 mm laminated safety glass, film 0.78 mm, 22 mm overall thickness, Ug 1.3 W/m²K
- Double glazing consisting of 2 x laminated safety glass, overall thickness 31.1mm, Ug 1.0W/(m²/K)
- Triple glazing consisting of 3 x toughened safety glass, overall thickness 32mm, Ug 0.8W/(m²/K)
- Manufactured by

Sensor technology

Internal impulse sensor

- Multi-sensor (redundant radar movement sensor and 3D protective light curtain AIR presence sensor) with test facility

External impulse sensors

- Multi-sensor (radar movement sensor and 3D protective light curtain AIR presence sensor) with test facility
- Active infra-red movement and presence sensor with test facility
- Radar movement sensor with/without detection of direction
- Passive infrared movement sensor
- Hand switch, contact-free
- Hand switch, manual
- Other means of generating an impulse

Safety equipment

- Monitored presence sensor, external (safety for the main closing edge)
- Monitored presence sensor (safety for the secondary closing edge)

Preparation of the safety assessment in accordance with EN 16005 (DIN 18650) is recommended. A Declaration of Conformity is mandatory for the door system within the scope of the Machinery Directive 2006/42/EC.

Operating equipment

- (_) User interface with 6 operating modes and error display 45 X 45 mm suitable for the Legrand system. FRW operation can be switched on and off using a code.
- (_) FRW key switch

Accessories

- (_) Battery unit for emergency power supply
- (_) Electro-magnetic lock (current-less bi-stable locking) with monitoring and status feedback. Positive locking, direct engagement only on the trolleys of both door leaves or on the trolley and counterpart. The locking action does not engage on the toothed belt or deflection unit.
- (_) Emergency opening including emergency unlocking protected against break-in
- (_) Emergency OFF switch, optionally either surface-mounted or flush-mounted, with glass cover and frame
- (_) Networked via contact communication
- (_) Networked via bus communication