

Sliding door : automatism



The electrical automatism on sliding doors facilitates circulation in premises where the traffic is intense. This automatism is set easily and quickly on manual clean rooms sliding doors without any further modifications.

Characteristics

A micro-contrôleur enables to define the following functions: time-out, adjustable opening and closing speed, partial opening, electromagnetic locking system, interlocking facility.

A LCD screen enables to make the settings and to see the possible functioning defects.

- time-out adjustments,
- possible signalling adjustments,
- adjustment of opening speed (and closing in compliance with regulations),

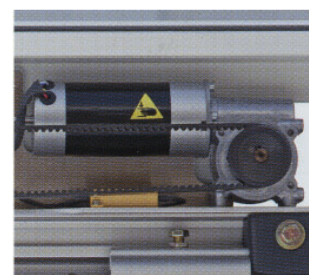
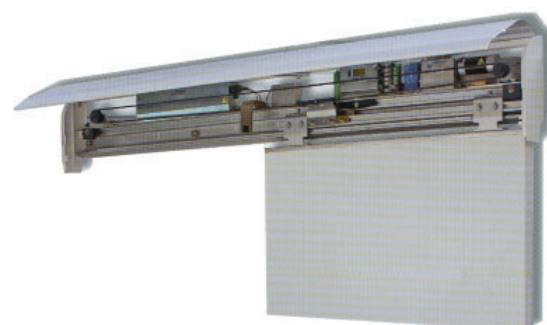
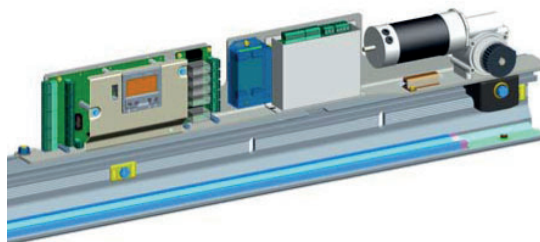
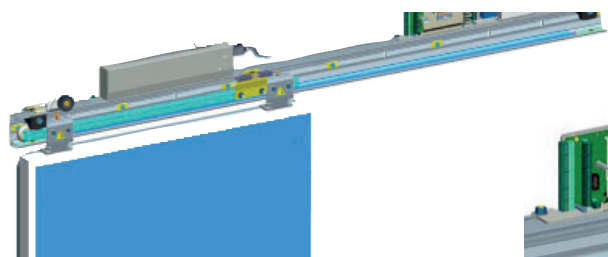
opening speed : 0,1 m/s 0.33 ft/s to 1 m/s 3.3 ft/s (stable load at mid-travel point)

closing speed : 0,1 m/s 0.33 ft/s to 0,7 m/s 2.3 ft/s (stable load at mid-travel point)

- partial opening or not.

Data output switches (dry switches) for airlock management, e.g.: (door opener and door closer switch, unlock and interlock switch) and fault detection display switch.

Optional: can be connected to a safety battery for door opening or closing in the event of a power cut.



Door transmission and drive by toothed glass fibre reinforced belt.

Belt turnbuckle.

Cycles counter.

Maxi. door weight : 130 kg 287 lb

Power supply : 230 VAC single-phase (L+N+T)/50Hz / P = 500W / 2,2 A (supply cable not provided, to bring by electrician), power supply unit with a connection by pick-up plug and directly accessible main fuse.

Motor protection class : IP20

Temperature of use : from +5°C to 50°C 41°F to 122 °F

3 operation types :

- standard : opening and closing by command order
- delay 1 : opening by command order, automatic closure after timer has lapsed
- delay 2 : opening by command order, automatic closure after timer has lapsed or another command order.

Order board

- In standard: opening order with proximity detectors on each side, set on the door frame.
- In option: push buttons, badge scanner, digital lock, motion sensors (radars), ...



control by 2 proximity detectors
(1 each side)

Safety devices

- **Safety on leaf edge** : electronic torque limiter integrated in the order unit.
Max. load on leaf : 15 daN *33.7 lbf* (in case of contact with the door, the static force on the person is limited to a value lower than 15 daN *33.7 lbf*)
- **Horizontal presence safety**, double barrage by optical cells transmitters + receivers (diameter 16 mm *0.63"*).
- **Presence detector (NF EN 16005):**
2 presence detector, on both sides of the door passage. These detectors keep the door open when there is a hurdle on an area of 20 cm *7.9"* on both sides of the passage and this during a minimal time of 30 seconds.
The aim of these detectors is to avoid contact with products or people during the move of the apron.



2 rows of horizontal safety
photocells



presence detector

Standards

The automatic slide operation meets the regulations of:

- European directives « Low Voltage Electric Equipment » (73/23/CEE),
- « Electromagnetic compatibility » (89/336/CEE),
- European standard NF EN 16005 about the safety of motorized doors for pedestrians used in normal access, and also

for doors used as safety exit and fire resistant doors.