**TECHNICAL SPECIFICATIONS**

**Ditec Rex S**

Automation for single or double sliding doors up to 100 kg (single door) and up to 140 kg (bi-parting door), with 50 mm thickness.

Ditec Rex S has obtained TÜV-certificate. It has passed the endurance test 1 Million cycles (TÜV certificate).

Particularly compact, overall 100 mm deep of the operator (transom and cover), suitable for all types of entrances from offices to shops, and fully compliant with European safety standards.

Ditec Rex S reduces energy consumption in air conditioned rooms by independently adjusting the automatic hold open time according to the people flow or switching from partial to full opening until the traffic has waned.

With the 2-digit display, all control panel functions can be set and saved for quick recovery in the case of failure, inside a specific memory stick; moreover, they can be exported to other operating devices and used in case of replacement of the control unit or when we are installing many similar doors.

The display can also be used in troubleshooting and maintenance since it flags faults and signals when the unit has reached the number of operations set for the maintenance alarms.

In case of alarm or fault signal, the end user can explain the message directly to the installer, i.e. by phone.

The sturdy anodized extruded aluminium casing (15µm) guarantees a high number of operations without the risk of damaging the slide guide – the main source of wear to trolley wheels which leads to irritating noise and vibrations as the doors slide.

The main components of the Ditec Rex S system – transformer, single-block traction system with DC gear motor complete with encoder, electrical panel, belt drive, belt, trolleys and all optional devices – are set inside the casing, secured in an orderly, easily accessible manner along special guides.

As the automatic limit switch, the encoder recognizes the mechanical stops and, in the following manoeuvres, manages speed and deceleration of the operating device.

The trolleys slide on noise-damping, self-lubricating high-quality nylon wheels.

Movement is transmitted by a cogged belt made of an electrically conductive synthetic material.

Additional accessories can be installed inside:

* emergency/UPS batteries
* the electromechanical lock, available in security, safety version (in the event of a power outage, the doors are automatically released) and bistable lock.
* The “Plus” card, which snaps into the panel and, among other things, enables hook up of the operating device to the fire alarm system and management of other accessories such as traffic signals, additional lighting, or air blades.

The extruded aluminium cover closes and protects the operating device and has a practical brush that not only improves the frame's air tightness, but also reduces the accumulation of dust inside the system.

Special hook brackets to be secured to the wall by inserting into the special groove at the back of the casing support the operating device, making the unit quick to install.

The operating device has different types of brackets, that are both height- and depth-adjustable, to be used with framed doors made with Ditec aluminium systems, or with other commercial products (as long as they meet current standards).

A further combination of aluminium brackets and profiles has been created for full glass sliding panels.

Various exclusive accessories are also available for the system such as the digital program selector, mechanical program selector (by handle or by key), movement and presence safety sensors and door-opening push-buttons, even in the no touch model.

**Main functions:**

* Electronic adjustment of the forces.
* Obstacle detection system (ODS): causes the manoeuvre to stop or reverse if an obstacle is detected.
* Automatic braking and deceleration setting.
* Independent opening, partial opening and closure control.
* Adjustment of thrust forces exerted against obstacles.
* Separate speed adjustment for opening and closing.
* Separate time adjustments for automatic closing and partial opening.
* Side safety sensor adjustment: if an obstacle is detected, the electronic panel can be set to stop or slow down opening.

**Technical specifications:**

Dimensions: 100 mm x 190 mm x length of casing (max. 5600 mm)

Load: 100 kg one wing

140 kg two wings

Power supply: 230 V AC/50-60 Hz

Motor power supply: 24 V DC/10 A

Opening/closing speed: adjustable up to 0.6 m/s for single wing doors

adjustable up to 1.2 m/s for two wing doors

Protection rating: IP 20

Operating temperature: -20°C/+55°C

Endurance durability: 1.000.000 (certified by TÜV)

**Reference certification:**

Machinery Directive (2006/42/EC)

Electromagnetic Compatibility Directive (2004/108/EC)

TÜV-certified: G598/1

G599/1

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**Harmonised European standards applied:** EN 55014-1

EN61000-6-3

EN61000-6-2

EN 16005

EN 60335-1

EN ISO 13849-1

EN ISO 13849-2

EN 62233

DIN 18650-1

DIN 18650-2