

TECHNICAL SPECIFICATIONS

Ditec DAB105

Electromechanical actuator for opening and closing swing doors.

Tested up to 1,000,000 manoeuvres, it complies with European Standard EN16005 and earned the SP SITAC certification and the Exova Warrington test report for installation on fire doors; it can also be used along emergency exits on doors equipped with panic bars.

The silent operator, aesthetically pleasant, can move swing door weighing up to 200 kg, and has multiple operating possibilities (Power Assist, Low Energy, Push & Go): Ditec DAB105 is ideal for automatic doors installed in any kind of public and private environment.

The Power Assist option exploits a small thrust in the motor to facilitate manual opening of the door; the Low Energy option guarantee a reduced force in case of impact of the wing against persons; the Push & Go option activates motorised opening of the door after a gentle push is applied to the wing.

The safety of those passing through doors motorised with Ditec DAB105 is ensured by the option of connecting self-tested sensors to be installed on the wing.

The door opens with a motor and is closed via a spring mechanism (adjustable tension) and the servo-assisted motor.

Easy to configure: the first time it is used, the electronic panel sets itself on the first of the 10 settings already stored; afterwards it is possible to select the one most suitable for the needs of the user. Possible additional changes can be made using a trimmer and dip switch.

The possibility of fuelling the automation with variable voltage between 100 V and 240 V without having to use any additional accessory is further confirmation of the adaptability of this operating device. An easy auto-learning process guarantee a very fast start-up of the operator.

A specific cable can be used to connect and synchronise the two automation systems simply, for use on double swing doors.

The Ditec DAB105 is composed of a solid base plate for fastening and supporting the components and an elegant protective cover and closing with extruded aluminium profiles and metal lateral heads painted grey.

Inside the operating device, firmly fastened to the plate, are the various components: the electronic panel, the functions of which can be implemented through the use of additional optional cards, and the powerful gear motor complete with encoder. There is also place for the batteries supplied as an optional accessory for total integration.



An extension for the cover is also available which is used, for purely aesthetic purposes, to connect two Ditec DAB105s installed on double swing wings.

By selecting the correct handling arm from the five available, the Ditec DAB105 adapts perfectly to any type of wing:

- articulated arm in silver anodised aluminium for a "push" door opening
- sliding arm in silver anodised aluminium for "pull" doors
- break-out articulated arm which enables emergency opening of the door through an automation-release system
- articulated arm with three levers in silver anodised aluminium
- articulated arm for fire doors (in steel).

Additional settings for the electronic panel are available in addition to those already described:

- separate speed adjustment for opening and closing
- closure force adjustment: makes it possible to increase the closing force in the case of doors installed in windy areas or when the door separates areas of differing air pressure
- automatic Hold open time adjustment.

Additional features can be managed with the supplementary security card:

- step-by-step opening with key selector
- emergency closing for fire doors
- when there is an electro-mechanical lock present, with the door closed, after the opening command has been given, a closing push is given to guarantee the complete release of the electro-mechanical lock.
- at the end of the closing manoeuvre, the operating device can be set to increase the force/speed of the wing to ensure that the electro-mechanical lock is fully inserted.

Additional features can be managed with the supplementary safety card:

- connection of the internal and external safety sensors which, if they detect an obstacle, block the movement during opening and reverse the movement during closing
- ignore safety sensors during opening: adjustable between 45° to 90°. Ignores the safety devices installed on the wing during opening, so that the wall is not detected
- possibility of connecting an external device that provides the automation status (door open or door closed).

A knob or key function selector can be combined with the operating device.



Technical specifications:

- Load: 200 kg (maximum wing length 1200 mm)
- Endurance durability: 1,000,000 manoeuvres
- Power supply: 100/240 V AC / 50-60 Hz
- Motor power supply: 24 V DC
- Nominal power: 75 W
- Opening time: 3 - 6 s/ (0° – 80°)
- Closing time: 3 - 6 s/ (90° – 10°)
- Operating temperature: -20°C / +45°C
- Protection rating: IP 20
- Product dimensions mm (H x P x L) 131 x 111 x 720
- Electro-mechanical lock power supply: 12/24 V

Ditec DAB105 complies with the following directives:

Machinery Directive (MD) 2006/42/EC

Electromagnetic Compatibility Directive (EMCD) 2004/108/EC

Other standards or technical specifications applied:

SP (FIRE resistance) by SITAC (30' test)

Fire test report by EXOVA WARRINGTON

Harmonised European standards applied:

EN 60335-1

EN 61000-6-2/3

EN16005

EN13849-1/2

