

Wel

ENG

Automations for swing doors



Advanced entrance technology

Ditec Wel

Fully featured, sturdy, versatile and quiet
Packed with features

Ditec Wel is the automation for automatic swing doors. Designed to offer a versatile and fully featured solution, this automation boasts a set of distinctive features, allowing it to be used in a wide range of operating conditions:

- opened and closed by a motor;
- opened by a motor and closed by a spring;
- on emergency exits;
- low energy for disabled access.

Sturdy, hard wearing and quiet, it is ideal for very heavy duty applications. The automation boasts a new and smart design and very clean lines.

Ditec Wel complies with the strictest European standards. This automation is available in different versions: E, M and S.

Ditec Wel M

Sturdy and versatile, ideal for very heavy duty applications

A must in all demanding environmental conditions, such as external doors exposed to the wind and to the elements.

Ditec Wel E and Ditec Wel S

Practical, reliable and quiet. Packed with features

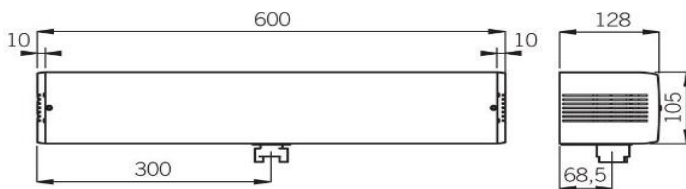
To make sure the door is closed even in the event of power failure, it is advisable to select an automation opened by a motor and closed by a spring, preferably motor-assisted, such as Ditec Wel S. This solution allows the door to be manually opened and closed by a spring.

Sturdy, reliable and quiet, these automations have been designed to offer a versatile and fully featured product, suitable for heavy duty applications, even with very heavy door wings.

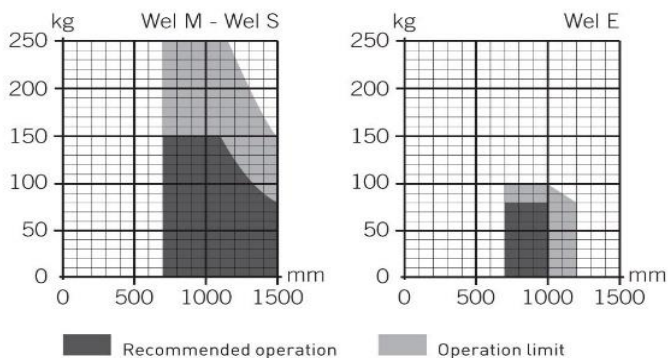
Ditec Wel S uses the Brake system to control the closing and approaching speed even in the event of power failure.

Ditec Wel E is not fitted with a Brake system, but features a simplified version, still able to control the closing operation.

Dimensions



Operation diagram



A rich set of functions

Ditec Wel offers a wide range of electronic, mechanical and special functions to adapt the automation to meet different operational requirements.

Electronic functions

Automatic functions:

- thrust limiter
- obstacle detector with adjustable thrust

Operating modes:

- Push and Go
- electrically operated lock control modes:
 - normal mode (working current or "fail secure" - wing remains shut even in the event of power failure);
 - anti-panic mode (idle current or "fail safe" - wing remains shut only if power is available. In the event of faults or power failures, users can still exit the room)
- electrically operated lock latching control: the operating speed may be increased when approaching the electrically operated lock to ensure correct latching operation
- electrically operated lock release control: an option may be enabled to ensure that the electrically operated lock is correctly released
- wind-proof facility

The automation can therefore be adapted to different types of existing locks, to the features of the door (weight - strength - opening problems) or to environmental conditions (different indoor-outdoor pressures).

As compared with the above, Ditec Wel E is a "simplified" product. It therefore does not include the following features: obstacle detector with adjustable thrust, lock type control (Ditec Wel E only controls the normal lock) and electrically operated lock release control. For light to medium weight doors, the Ditec Wel E is a simpler and more cost effective alternative to version Ditec Wel S.

Ditec Wel automation features a FA limit switch, which allows the following operations to be carried out:

Ditec Wel S, Ditec Wel M: The limit switch is used to control the wing opening angle or, by changing the connection, to bypass safety devices for the last opening section. Using the FA limit switch is optional therefore, if the automation is fitted with a door stop and does not open towards a wall, its use is not required. For applications where the wing opens towards a wall, the limit switch bypasses the operation of the sensors mounted on the wing so that they "do not see" the wall as an obstacle.

Ditec Wel E: This version does not feature an encoder; the FA limit switch is therefore used to slow down the opening action, regardless of whether a door stop is fitted or not.

Mechanical functions

- Three different moving arms may be fitted: articulated, sliding or three-section (see accessories). The type of arm used may be selected from the electronic control panel, to ensure optimal operation in all conditions (with the exception of the Ditec Wel E version)
- the spring can be easily adjusted through the screw located on the front of the automation
- the closing speed can be adjusted even in the event of power failure by means of the Brake system PCB
- symmetrical automation to simplify installation
- guard extension head to fully cover the opening if batteries are used or for double automation control (with the exception of the Ditec Wel E version).

Special functions

- Low energy
- escape routes - it may be fitted to emergency exits.

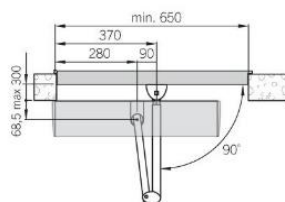
The automation features a reversible reduction unit to allow manual operation in the event of power failure.

Movement arms

WEL BA

Articulated arm for doors which open outwards, actuator side.

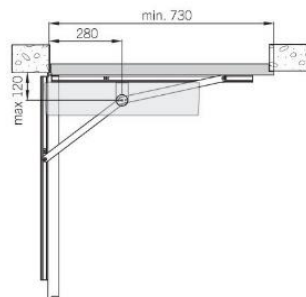
Articulated arm - BA



WEL BS

Sliding arm for doors which open inwards, actuator side.

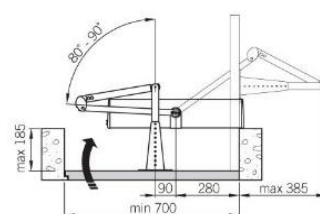
Sliding arm - BS



WEL BRAS

Three-section articulated arm for doors which open inwards, actuator side.

Three-section articulated arm - BRAS



WEL BSS

Break-out sliding arm, to break out the wing from the opposite side to the normal opening side. In emergencies, the arm allows door break-out towards the opposite side to the normal opening side, i.e. towards the outside of the wing.

Sliding arm - BSS

