



## **Ditec automatic pedestrian sliding doors**

EN

# Ditec automation: a complete range of products for any requirement



## Straight-line sliding doors

### Ditec Civik

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Quiet and lightweight  
For next generation offices and private housing

### Ditec Rex

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Simple and versatile  
The very popular automation for commercial premises



## Ditec Valor

The top of the range  
For the most demanding commercial applications

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# DISTI

**Ditec automatic doors.**

**A sign of distinction.**

Comfort, safety, prestige, hygiene, appeal, access control and, in the case of air-conditioned areas, optimised energy consumption: these are just some of the advantages of having an automatic door outside as well as inside.



# ACTIVE CLASS

Today's life has made it more and more frequent and common to find doors that open when we get near them. Thanks to cutting-edge technology, superior quality of processes and materials, our automatic sliding doors, opening and closing smoothly and trouble-free, not only give the building something more in terms of look, novelty and appeal but they also make the life of the people using them more and more comfortable. This is why having an automatic door is not only a question of image and adaptation to advanced technical solutions, it also shows care for the people that come and go, making their life easier.

Automatic doors also provide an ideal means to solve problems arising from architectural barriers.

## A comprehensive and certified range

Ditec is the widest automation range available for straight-line sliding pedestrian doors, capable of satisfying any particular requirement or performance: from the high-opening speed automatic systems for high-traffic entrances, to the smooth and controlled motion systems for house installations. These automatic systems are easy to install and come in a variety of aesthetic solutions that can match any type of furniture. Ditec also provides solutions with specially designed antipanic devices, designed to increase safety levels and to facilitate access to escape routes in emergencies. The following tables allow customers to select the most suitable automation for individual requirements and to check their comprehensive and advanced technical features.





# Ditec Civik

**Quiet and lightweight**  
**For heavy duty**



Glass walls and doors are a solution devised to meet the modern requirements of interior design: they smartly enhance the look of residential and work environments by giving the rooms they are located in more light and a more spacious feel.

## For hide-away or sliding doors

Glass can be used to fit full dividing walls, moving walls and all types of doors, including sliding or hide-away doors, which add efficiency and comfort, specially in heavy traffic working environments.

## Versatile

Ditec Civik automation is quiet and light, simple and versatile. It is very well suited for all frame types, from glass, to wood, to crystal, whose smart look is enhanced by a special connection system and a technology able to highlight the qualities of the material.

Ditec Civik features a range of functions and accessories, which enhance their efficiency and safety by controlling the operating mode and the door opening times, to allow reduced mobility people or cumbersome objects to go through, making sure the door can be fully operated even in the event of temporary power failure.


Ditec Civik is an Energy Saving automation thanks to its new generation electronic panel, which allows energy consumption to be optimised both in operating and stand-by modes.



## Technical specifications

	Civik
Description	automation for internal sliding doors
Travel control system	encoder
Maximum capacity	60 kg (1 wing) 80 kg (2 wings)
Duty class	4 – intensive
Power supply	230 V AC / 50-60 Hz
Power input	0.2 A
Torque / Thrust	30 N
Maximum opening speed	0.4 m/s (1 wing) 0.8 m/s (2 wings)
Maximum closing speed	0.2 m/s (1 wing) 0.4 m/s (2 wings)
Operating temperature	-20°C / +55°C
Protection rating	IP 20
Product dimensions (mm)	75 x 130 x L
Control panel	EL06A (built-in)

## Main system functions

	Civik
Mains power supply	230 V AC / 50-60 Hz
 Energy saving	reduced consumption when in stand-by and in use
Motor power supply	24 V DC / 1.8 A
Accessories power supply	24 V DC / 0.3 A
Electrically operated lock	24 V DC / 0.5 A
Kinematic management with Encoder	■
Detection of obstacles (causes the gate to stop when opening or reverse when closing)	■
Push opening (PUSH&GO)	■
Pull closing (PUSH&GO)	■
Independent opening control	■
Independent closing control	■
Timer-controlled automatic closing	0 - 30 s
Monitored emergency reverse	■

# Ditec Rex

**Simple and adaptable**  
**For very heavy duty**



Easy assembly and multi-purpose applications make Ditec Rex a widely known automation. The traction unit and the electronic control panel in one block, make assembly time shorter.

Many components are in common with other automation solutions from the Ditec line and this is a sure advantage for our customers.

## **Guaranteed functioning even without electricity**

A device with built-in batteries which ensures operation even in the event of a power failure.

## **Safe and noiseless**

Ditec Rex is provided with a 24 V DC motor, a microprocessor logic electronic control panel, an electronic impact-free device with encoder.

The casing is made of aluminium extrusion and traction is performed by means of a synthetic toothed belt.

Ditec Rex, like all the other Ditec automation solutions can come with a complete range of original Ditec accessories for control and safety, in addition to the specific accessories included in the line.






## Technical specifications

	Rex S
Description	automation for sliding doors
Travel control system	encoder
Maximum capacity	100 kg (1 wing) 140 kg (2 wings)
Duration test	1,000,000 door cycles
Power supply	230 V AC / 50-60 Hz
Power input	0.5 A
Maximum opening speed	0.6 m/s (1 wing) 1.2 m/s (2 wings)
Maximum closing speed	0.6 m/s (1 wing) 1.2 m/s (2 wings)
Release system for manual opening	handle type
Operating temperature	-20°C / +55°C (-10°C / +50°C with batteries)
Protection rating	IP 20
Product dimensions (mm)	190 x 100 x L
Control panel	EL20

## Main system functions

	Rex S
Mains power supply	230 V AC / 50-60 Hz
Batteries	■ (optional)
 Energy saving	reduced consumption when in use
Motor power supply	24 V DC / 8 A
Accessories power supply	24 V DC / 0.5 A
Electrically operated lock	24 V DC / 1 A
Kinematic management with Encoder	■
Push adjustment	■ (optional with MD1)
Obstacle detection with sensitivity adjustment (causes stop when opening or reverse when closing)	■
Opening and closing speed adjustment	■
Independent opening control	■
Independent partial-opening control	■
Independent closing control	■ (optional with MP1)
Timer-controlled automatic closing (adjustable)	0 - 30 s
Automatic closing time self-adjustment (depending on the flow of people)	■
Safety during opening (slowdown speed)	■
Emergency reverse with presence sensor	■ (EN 16005 compliant)
Safety-test and safety-monitoring	■ (EN 16005 compliant)
Built-in photocell amplifier	■

## Relevant Directives and Standards

**MD**  
Machine Directive

**EMCD**  
Compatibility Directive  
Electromagnetic

**LVD**  
Low Voltage Directive

**EN 16005**  
User Safety Standard

# Ditec Valor



High-tech, exceptionally well designed  
top of the range  
For continuous duty

Ditec Valor is the straight sliding automatic door designed with great attention to details to meet the most demanding requirements for commercial applications. Ditec Valor has gained a leading position in the marketplace as it features very advanced technologies, last generation electromechanical components, an innovative control panel, very quiet, smooth operation ensured by the vibration proof sliding guide.

**Multiple operational situations**

Ditec Valor sliding door is specially suitable for heavy duty, continuous use applications, such as in public areas, large shopping centres and airports, where the high traffic requires a more demanding operation compared to other locations.

**Self-adjustment of the door opening**

In high pedestrian traffic areas, Ditec Valor increases the automatic opening time, whilst the transit opening can be partly opened if the number of people going through the door is not very high.

**Product range**

	Capacity
Valor L and redundant	up to 180 kg
Valor P	up to 220 kg
Valor N and redundant	up to 300 kg
Valor T and redundant	up to 260 kg
Valor HS	up to 500 kg



## Comprehensive, solid, versatile and quiet

### A wide array of functions

Designed to offer a versatile and comprehensive product, it features a range of exclusive, major features which make it suitable for the most diverse operating conditions:

- **Advanced electronics**, thanks to the electronic panel with all on-board basic settings and to the built-in photocell amplifier
- **Automatic opening time auto set-up**. With high pedestrian traffic, the automation automatically increases the opening time
- **Transit opening auto set-up**. With high pedestrian traffic, the automation automatically switches from partly to fully opened
- **Built-in safety sensors**. In all models, all sensors may be fitted under the guard, with clear aesthetic benefits
- **MP1 electronic PCB**, added to extend the control functions available
- **Quiet operation**. Thanks to the vibration proof seal located under the sliding guide, on all models the Ditec Valor range ensures a smoother operation
- **Self supporting facility** on all models (excluding Ditec Valor L and P)
- **Equipped with a wide range of accessories**. Batteries with emergency or UPS facility can be selected, as well as a release system built in the automation
- **Operating unit**. Monobloc control/drive system with direct current gear motor with encoder, control and monitoring panel, with new generation microprocessor based logic, which allows to remotely set up and control the automation from the display or a computer
- **On-board or remote control**. As well as being easily monitored by means of a remote monitoring system **DMCS** (Door Monitoring & Controlling System), the Ditec Valor control panel is connected to a **MD1 display** built in the head or wall mounted, to monitor and set up the following functions: diagnostics, maintenance alarm, opening setting, control panel function display
- **Dedicated frames**. Every Ditec Valor automation has been designed to match the **Ditec PAM** and **ALU48** profile series, but can also be used with commercially available profiles.

#### MD1 DISPLAY MODULE

Using the controls from the electronic panel

Password management

Electronic panel firmware version display

MP1, MD1 firmware version display

Total/partial operations display

Maintenance alarm setting

Safety, alarm and fault display

Automation status display

Automatic closing time and access opening auto set-up

Partial to total opening automatic switching

#### PLUS MP1 MODULE

Accessory dedicated electrical connections

Manual closing control

Contact for opening key

Contact for closing key

Contact for people access visual/audio indicators

Dedicated connection for safety sensors equipped with safety test monitoring facility

General Purpose outputs

Output for spot light; Air blade power supply

Battery status monitoring facility with advanced test, to allow emergency opening

#### Emergency-Exit Systems: when every second counts

Ditec Valor provides reliable opening and closing also along escape routes: two types of solution are available: **anti-panic breakout systems** and **redundant systems**.

The anti-panic breakout door has all the same features as a standard automatic door. However, in case of an emergency, the users can manually open the wings of the door and, where applicable, also the semi-fixed side wings in the same direction as flight: with this system the wings open like a swing door guaranteeing generous passing space, almost equal to the width of the entire door.

The second type of system uses the principle of redundancy of the electrical and electromechanical components performing periodic checks of the operation of the complete system.

The operating unit and all accessories have been designed to guarantee that the door opens in the event of:

- emergency
- loss of power
- partial or complete system breakdown or malfunction.



TÜV Certified Anti-Panic Features for Escape Routes




# Ditec Valor

## Technical specifications

	Valor L and redundant	Valor P	Valor N and redundant	Valor T and redundant	Valor HS
Description	automation for sliding doors	automation for sliding doors	automation for sliding doors	automation for telescopic sliding doors	automation for heavy sliding doors
Special uses	emergency breakout and redundant exit	emergency breakout and redundant exit	emergency breakout and redundant exit	redundant emergency system	
Stroke control	encoder	encoder	encoder	encoder	encoder
Capacity	100 kg (1 wing) 180 kg (2 wings)  220 kg (2 wings) - redundant	120 kg (1 wing) 220 kg (2 wings) 100 kg (1 breakaway wing) 180 kg (2 breakaway wings)	120 kg (1 wing) 240 kg (2 wings)	200 kg (2 wings) 260 kg (4 wings)	class 4: 200 kg (1 wing) 340 kg (2 wings)  class 5: 170 kg (1 wing) 300 kg (2 wings)
Capacity with reinforced wheels			150 kg (1 wing) 300 kg (2 wings)		
Capacity with 2 wheels for runner					class 5: 300 kg (1 wing) 360 kg (2 wings)  class 6: 220 kg (1 wing) 300 kg (2 wings)
Capacity with 2 wheels for runner and 3rd runner					class 4: 450 kg (1 wing) 500 kg (2 wings)  class 5: 350 kg (1 wing) 400 kg (2 wings)
Duration test	1,000,000 door cycles	1,000,000 door cycles	1,000,000 door cycles	1,000,000 door cycles	
Power supply	230 V AC / 50-60 Hz	230 V AC / 50-60 Hz	230 V AC / 50-60 Hz	230 V AC / 50-60 Hz	230 V AC / 50-60 Hz
Power input	1 A	1 A (1.6 A with weight > 200 kg)	1 A (1.6 A with weight > 200 kg)	1 A	1 A
Maximum opening and closing speed	0.8 m/s (1 wing) 1.6 m/s (2 wings)	0.8 m/s (1 wing)  1.6 m/s (2 wings) (1.2 m/s 2 wings with weight > 200 kg)	0.8 m/s (1 wing)  1.6 m/s (2 wings) (1.2 m/s 2 wings with weight > 200 kg)	0.8 m/s (2 wings) 1.6 m/s (4 wings)	0.5 m/s (1 wing) 1.0 m/s (2 wings)
Release system for manual opening	built-in handle	built-in handle	built-in handle	handle	handle
Operating temperature	-20°C / +55°C (-10°C / +50°C batteries)	-20°C / +55°C (-10°C / +50°C batteries)	-20°C / +55°C (-10°C / +50°C batteries)	-20°C / +55°C (-10°C / +50°C batteries)	-20°C / +55°C (-10°C / +50°C batteries)
Protection rating	IP 20	IP 20	IP 20	IP 20	IP 20
Product dimensions (mm)	145 x 175 x L	145 x 175 x L	145 x 175 x L	145 x 255 x L	300 x 150 x L
Approvals	TÜV	TÜV	TÜV	TÜV	

## Main system functions

	Valor L - Valor P - Valor N - Valor T	Valor HS
Mains power supply	230 V AC / 50-60 Hz	230 V AC / 50-60 Hz
Batteries	■ (optional)	■ (optional)
 Energy saving	reduced consumption when in use	reduced consumption when in use
Motor power supply	24 V DC / 10 A	24 V DC / 15 A
Accessories power supply	24 V DC / 0.5 A	24 V DC / 0.5 A
Electrically operated lock	24 V DC / 1 A	24 V DC / 1 A
Kinematic management with Encoder	■	■
Push adjustment	■ (optional with MD1)	■ (optional with MD1)
Obstacle detection with sensitivity adjustment (causes stop when opening or reverse when closing)	■	■
Opening and closing speed adjustment	■	■
Independent opening control	■	■
Independent partial-opening control	■	■
Independent closing control	■ (optional with MP1)	■ (optional with MP1)
Timer-controlled automatic closing (adjustable)	0 - 30 s	0 - 30 s
Automatic closing time self-adjustment (depending on the flow of people)	■	■
Safety during opening (slowdown speed)	■	■
Emergency reverse with presence sensor	■ (EN 16005 compliant)	■ (EN 16005 compliant)
Safety-test and safety-monitoring	■ (EN 16005 compliant)	■ (EN 16005 compliant)
Built-in photocell amplifier	■	■



## Relevant Directives and Standards

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User Safety Standard

# Accessories

**Each automation system should be completed with control and safety devices compatible with all the components of the automation and complying with regulations in force**

## Rotary function selectors

Widely used in a full range of environments, the rotary function selectors have a mechanical movement and are available with knob selector and key selector. There are also wireless radio selectors in the Ditec range which have up to 8 different operating modes.



## Electronic function selectors

The electronic function selectors, equipped with micro-controller and front keypad with LED lights, are the digital version of the Ditec selectors.



## Microwave sensors

Based on the Doppler effect, these are electronic systems that detect the presence and passage of people and objects in the specific area being monitored. They provide the ability to control the opening of the door and are able to detect the direction of motion, avoiding activation if a person is moving away (mono-directional sensors).



## Active infra-red sensors

Active infra-red sensors are able to detect static presence in the area monitored: these are fundamental also for guaranteeing safety on the sides of sliding-door automation systems and can be installed either externally or built into the automation-system cover.



## Active infra-red dual-function sensors

Active infra-red dual-function sensors make it possible to detect both static presence and the movement of people and objects and comply with standard EN 16005.



## Dual-technology sensors

These incorporate detection of presence and movement of people in both directions for the monitored area, in a single product. Thanks to the microwave technology, they are available in versions with monodirectional detection, useful for the rapid closure of the door after passage which allows reduced air and heat exchange between environments.





## Ditec offers premium quality products and accessories, which satisfy any requirement

### Control pushbuttons

They are available in medium and large sizes, in plastic or stainless steel, and are used particularly in hospital environments as they can be operated by elbow or used by disabled individuals, operating the door simply by pressing them.

Thanks to the wall and recessed versions, they are adaptable to any type of environment.



### No-touch button

The door is operated by passing the hand over the device, without exercising any pressure: the lack of contact makes it possible to maintain a higher level of hygiene.



### Transponder reader

In this case as well, the device reads a user transponder and operates the door, without any contact between the parts: the reading of the transponder, duly distributed only to authorised personnel, is a guarantee of safety and hygiene.



### Digital selectors and keypads

A key and digital keypad combination protects the controller and guarantees reserved access.

Keypad also available in four-channel radio version.



### Remote control

Thanks to the radio card and the remote controls which can be associated with it, automatic Ditec doors can be operated directly by pressing a button on your remote control: a key feature for use by individuals with reduced motor abilities.



When building the system, only use Ditec accessories and safety devices.

Every Ditec automation features CE marking and is designed and built in compliance with the safety requirements of the Machinery Directive (2006/42/EC), of the Electromagnetic Compatibility Directive (2004/108/EC) and of the Low Voltage Directive (2006/95/EC) and of other Directives, laws, specific standards for special products and situations.

The Company reserves the right to make changes which may improve the products.

For this reason, the technical details given are not binding.

Pictures were taken with the consent of those concerned or in public locations.

Further information can be found in the Technical Manuals available at the website: [www.ditecentrematic.com](http://www.ditecentrematic.com)

# ENTRE//MATIC



**Entrematic Italy S.p.A.**

Via Mons. Banfi, 3 • 21042 Caronno P.lla (VA) • Italy

Tel +39 02 963911 • Fax: +39 02 9650314

[ditec@entrematic.com](mailto:ditec@entrematic.com)

[www.ditecentrematic.com](http://www.ditecentrematic.com) • [www.entrematic.com](http://www.entrematic.com)

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