

# Ten

automation for  
sliding doors



## ▶ Ten Automatic architecture

The impressive technological development in the glass industry and in the metal components industry used in the building sector have allowed designers and architects to discover new and, up to now unimaginable, applications.

Nowadays, planning buildings with technological facades has become a common reality.

Automatic doors, which are the best solution whenever access control and climatic influence regulation are needed, must surely conform to this new reality in aesthetic terms, so as to be perfectly integrated in the technological structure, as well as in qualitative terms.

Ten is the new DITEC automation specifically engineered to satisfy the new architectural and application requirements.

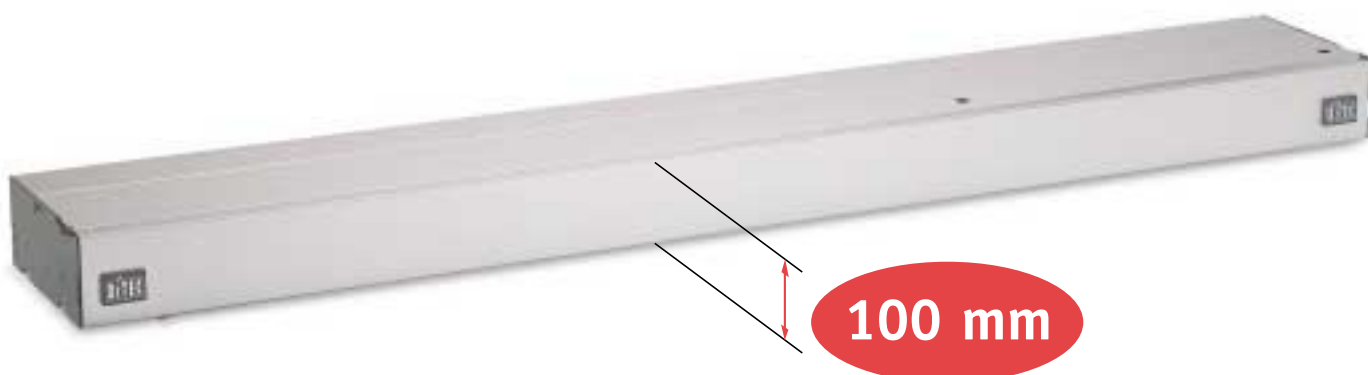
## ▶ Functionality

Modern and technological, Ten is characterised by four major, general features:

- ▶ Its casing is only 100 mm high
- ▶ It can be adjusted vertically up to 15 mm
- ▶ Its casing can be assembled in two separate parts to be joined

## ▶ Geometry and neat appearance

The automation is enclosed in a functional, elegant and simple aluminium casing, only 100 mm high, which perfectly and almost invisibly combines with the structural system of the building components.



## ▶ Practicality and quick installation

The new architecture requires more than beauty. In fact, as a consequence of technological innovation, not only has the building of dwelling houses completely changed but the building yards themselves have become a place where products are not only manufactured, but also assembled and finished.

All of this has resulted in a growing demand for quality products and easiness of application.

Ten satisfies these requirements thanks to its innovative features.

## ▶ Structural imperfections? No problem thanks to its vertical adjustment.

Ten can be vertically adjusted up to 15 mm, thanks to its special and, at the same time, easy internal translation components.

This gives Ten a very important advantage, that of making up for floor unevenness and thermal expansion typical of building, metal, structural components thus resulting in easier and more flexible installation.

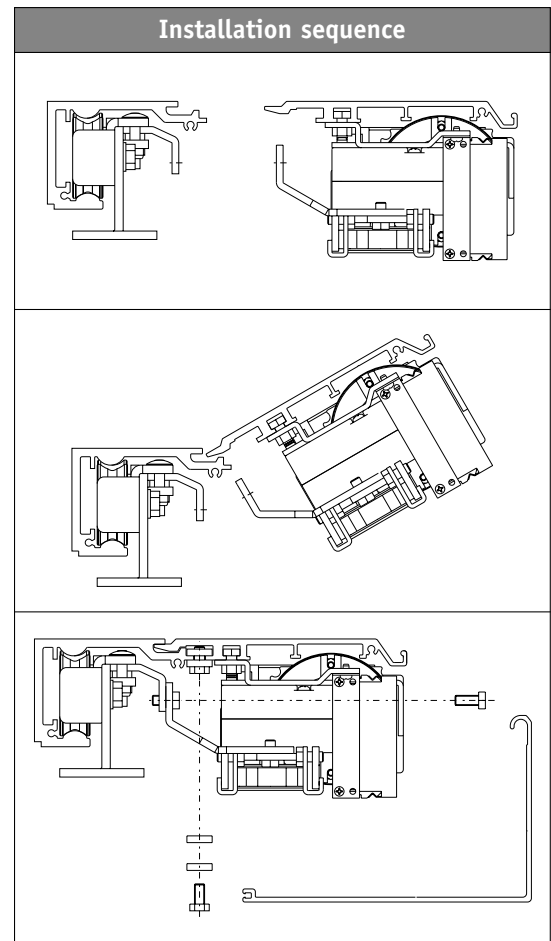
## **Two-part casing simple to join. Difficult to be easier.**

The elegant casing is divided into two anodized aluminium profiles to be joined in sequence thanks to a very simple coupling.

Trolleys and wheels are set up in the first profile and the door mobile leaves are attached to them. This allows easy installation and adjustment of the leaves as there are no hindrances typical of very low automations.

The drive unit - which consists of the gearmotor, the electronic board and the transformer mounted onto a single bracket to facilitate installation - is set up in the second profile. Wiring is orderly enclosed in a raceway obtained in the aluminium extrusion.

Ten automation has been engineered to facilitate installation and to enable installers to work without any difficulty.



## **Tested and reliable**

Primary components are the same as those already used for the other DITEC Bis automations.



The redundant version, tested and approved for installation on escape routes, is available.



## **Invisible**

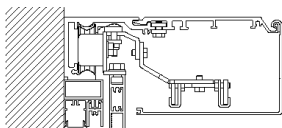
Ten perfectly combines with all door profiles of the DITEC line, particularly with PAM 30 profiles, which have been designed for the demanding and professional European market.

In order to have the door panel clean and free, the upper profiles have been designed to fit inside the automation, emphasizing its small dimensions - just 100 mm - and making the automation an integral part of the door frame.

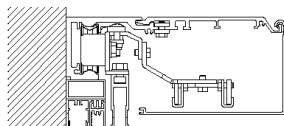


**Ten** automation for sliding doors

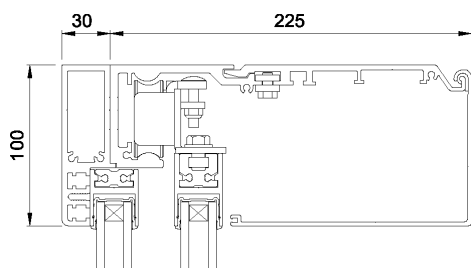
## Door profiles combining



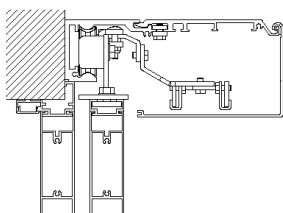
**PAM16 AI series**



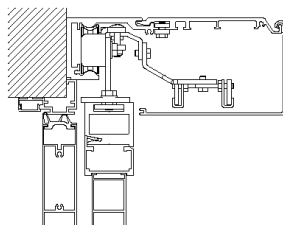
**PAM16 AC series**



**PAM30 series**

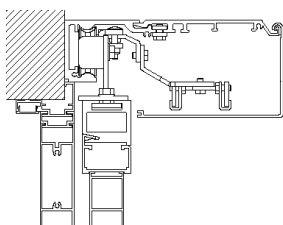


**PAM35 series**



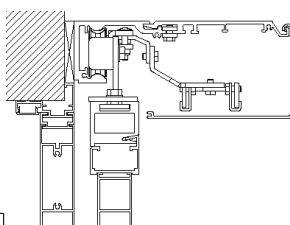
**AST series**

Antipanic with total break-out device



**ASMI series**

Antipanic with break-out device for internal sliding leaves



**ASME series**

Antipanic with break-out device for external sliding leaves

## Specifications

Duty	heavy
Capacity	100 kg (1 leaf) 200 kg (2 leaves)
Capacity with strengthened wheels	120 kg (1 leaf) 200 kg (2 leaves)
Sliding	on nylon wheels
Traction	by toothed belt
Casing - min. length	2,000 mm (TEN2) 1,400 mm (TEN1SX) 1,200 mm (TEN1DX)
Casing - max. length	6,600 mm
Power supply	230 V AC - 50 Hz
Insulation class	class 1
Current absorption	1 A
Opening speed	0.8 mt/sec (1 leaf) 1.6 mt/sec (2 leaves)
Closing speed	0.8 mt/sec (1 leaf) 1.6 mt/sec (2 leaves)
Acquisition speed	0.1 mt/sec (1 leaf) 0.2 mt/sec (2 leaves)
Max. door opening	3,200 mm
Special uses	escape routes (with break-out device or redundant system)
Intermittence	S3 = 100%
Temperature	-15°C / +50°C
Protection degree	IP20
Control panel	control panel 94 with microprocessor logic
Motor power supply	24 V AC
Motors output	24 V DC / 8 A
Accessories output	24 V = 0.3 A (nom.) 0.5 A (peak)
Electric lock output	24 V DC / 1 A max



## Functions

Manual lock release	✓
Power adjustment	✓
Obstacle detection	✓
Opening speed adjustment	✓
Partial opening speed adjustment	✓
Closing speed adjustment	✓
Slow down effect	(automatic by software)
Encoder	✓
Operation time	(automatic by software)
Opening control	✓
Partial opening control	✓
Closing control	✓
Automatic closing	✓
Stop safety	✓
Reverse safety	✓
Parallel connection of 2 automations	✓

## ▶ Accessories

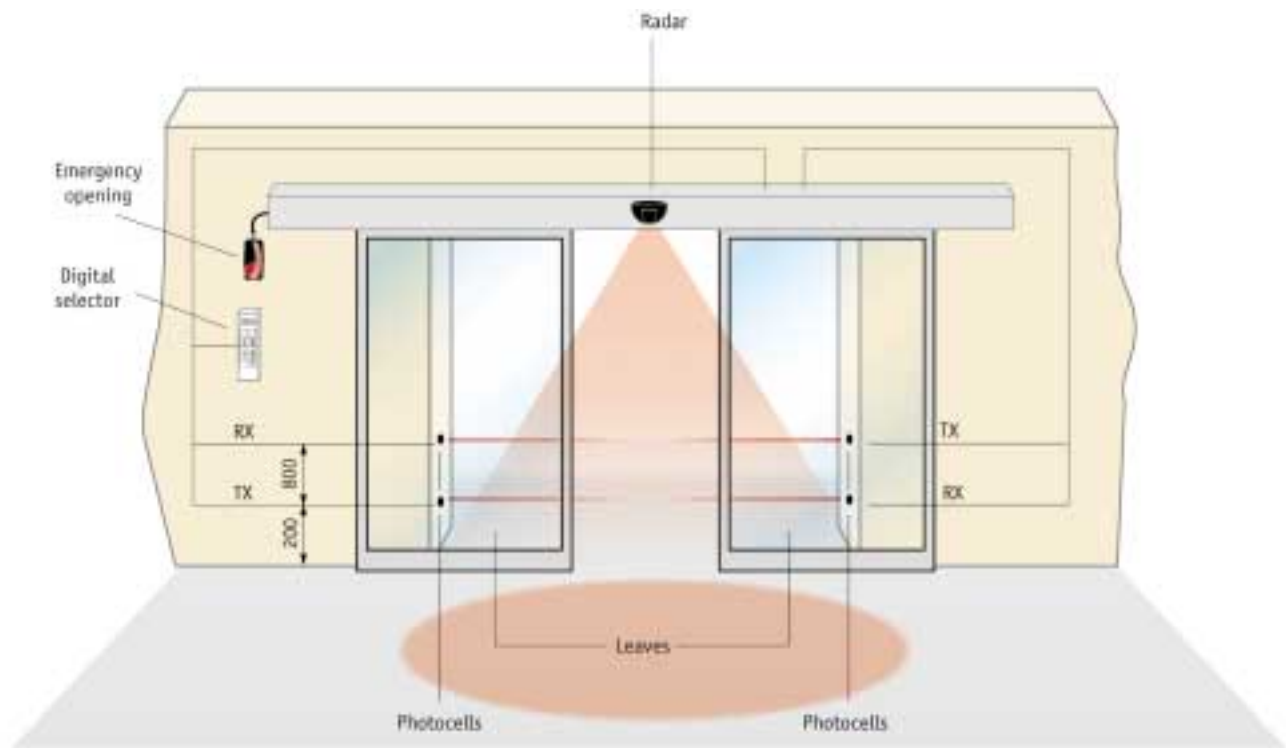
DITEC wide range of accessories offers access systems with several operation and control alternatives.

- ▶ photocells and volumetric sensors
- ▶ push buttons and push-button stations
- ▶ program selectors
- ▶ sensitive mats

### Specific accessories

- ▶ leaf lock device
- ▶ manual lock release devices
- ▶ antipanic system with mobile leaves break-out
- ▶ antipanic system with integral break-out or redundant system

Detailed information can be found in the Technical Manuals available on the website [www.ditec.it](http://www.ditec.it) or in price lists.



## Regulations

Use only DITEC accessories and safety devices for automation system installation.

DITEC actuators are designed and built in compliance with the safety requirements defined in the Machinery Directive (98/37/CE), Electromagnetic Compatibility Directive (89/336/CEE) and Low-Voltage Directive (73/23/CEE).

Ditec products are constantly improved. As a consequence technical data as listed in this leaflet are not to be considered binding. Further information can be found in technical manuals available on the website [www.ditec.it](http://www.ditec.it)



**DITEC S.p.A.**

Via Mons. Banfi, 3 - 21042 Caronno Pertusella (VA) - ITALY

Tel. +39 02 963911 - Fax +39 02 9650314

[www.ditec.it](http://www.ditec.it) - [ditec@ditecva.com](mailto:ditec@ditecva.com)



ISO 9001  
Cert. n° 0957/1

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PALAISEAU  
OBERURSEL  
MENDRISIO  
FT. LAUDERDALE USA

Tel. +33 1 64532860  
Tel. +49 6171914150  
Tel. +41 91 6463339  
Tel. +1 954 9624505

Fax +33 1 64532861  
Fax +49 61719141555  
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