



AUTOMATIC ENTRANCE SPECIALISTS

Transit, Supertransit and Sprint
Automatic systems for swing doors

CE



Automatic pedestrian doors

Transit, Supertransit and Sprint Automatic systems for swing doors

Significant features

- Sturdy anodized aluminium box of exclusive and elegant design with plastic side panels (except in Sprint).
- Microprocessor logic electronic control board for "intelligent" control of all automatic functions. Can handle a large number of complex operations.
- Automatic limit switch with encoder
- Superior accident-prevention system thanks to an intrinsic-safety anticrush device built into the electronic control board and very gentle thrust in opening and closing.
- Articulated and sliding arms for wing push and pull movements, also available in the antipanic version.
- Possibility of installing: full range of common accessories such as control, safety and security devices, photocells, floor mats, control buttons, electronic programmers for access control and functions, function selectors, etc.
- A large number of components common to Transit and Supertransit models for expeditious servicing.

The range

Even though all doors to be automated may seem the same, to be sure to satisfy all requirements. DITEC offers seven models in three basic versions and four variants each of which grouped in two operation typologies:

- motor-driven opening and spring-operated closing;
- motor-driven opening and closing.

Motor-driven opening and spring-operated closing

This type of operator is the ideal choice whenever door closing is to be ensured even in case of power failure. With this set-up the door can be opened manually, thus loading a spring which comes into operation upon reclosing just like an ordinary door-closer.

This type of operation is featured by:

- **Supertransit 95C**
- **Supertransit 95L**

Ideal for intensive use and for even very heavy doors, Supertransit 95 is the top-of-the-range in spring-operated automatic doors. Pleasant in appearance, sturdy in construction and highly adaptable, this type of door operator is the right choice for satisfying a wide range of requirements including those dictated by the regulations in force in a number of countries in relation to fire-barrier doors.

- **Transit UE**

Especially suited for installations not requiring great force and power but rather gentle and easy movements. Ideal for indoor installations particularly where people with deambulating difficulties are frequent users.

Motor-driven opening and closing

This type of operator is chosen in all situations not requiring the spring-operated version. It comes into its own particularly for outdoor installations in conditions of strong wind blowing in the opposite direction to that of door closing.



In fact, a spring-operated operator would not permit the door to be so easily closed or kept closed under such conditions, thus causing considerable inconvenience. This type of operation is featured by:

- **Transit 97C**
- **Transit 97L**

Wherever intensive or heavy-duty conditions prevail and where a door which can be opened easily and gently is required, Transit 97 is the best and most reliable solution adaptable to a wide range of situations.

- **Sprint**

A new entry and, as such, featuring the most advanced technology currently available in this sector.

Applicable in situations similar to those for which Transit 97 is recommended. The size, weight and price of this automatic system are the first to be very close to those of a good quality manual door-closer.

It is an operator which will undoubtedly become a reference in its sector world-wide.

Automatic systems with motor-driven opening and spring-operated closing

Supertransit 95

An extremely versatile automatic operator suitable for a wide range of applications in both new and existing doors.

Easy and quick to mount, Supertransit 95 is reliability at its best and is ideal for many applications.

Of very sturdy construction and requiring no special maintenance, Supertransit 95 incorporates a technology which has become a reference in the sector.

Also available with built-in continuity battery (**Supertransit 95L**), **Supertransit 95** can also be supplied in the assembly kit version for professional installers.

Supertransit 95 is moreover available in an approved fire-proof version featuring a special articulated arm for specific installation requirements (model 95 W with TBAW arm).
N.B. For some countries only.

Geared motor with encoder

Electronic control board with microprocessor



Supertransit 95C (without battery)

Emergency battery



Supertransit 95L (with battery)

Transit UE

Transit EU has been especially designed for installations where Supertransit would be oversized.

Its movement system is such as to exert a controlled thrust both in opening and closing which makes **Transit EU** extremely safe and reliable.

The low force of the geared motor is always kept under control so that the anticrush function is truly intrinsic, thus making for maximum safety.

Thanks to these features, this operator is ideal for hospitals, wards, and wherever there are people with deambulating difficulties.



Examples of installation **Transit**.

Geared motor

Electronic control board with micropr.



Transit UE

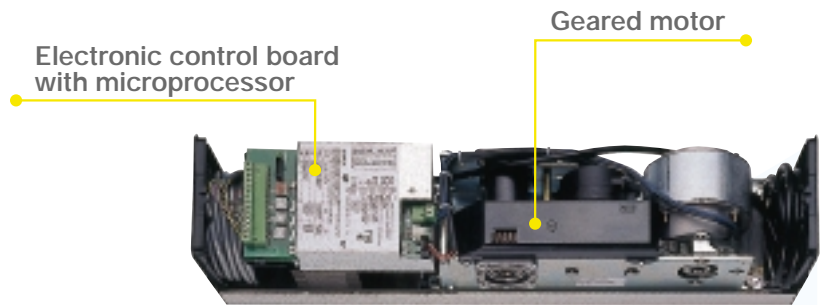
Automatic systems with motorized opening and closing

Transit 97

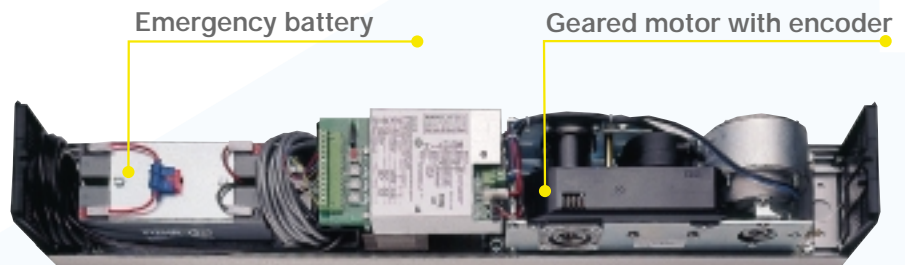
Powerful and versatile, **Transit 97** has been especially designed to operate swing doors under intensive and heavy duty conditions well beyond the limits of other operators. This is made possible by the fact that both opening and closing are driven by the geared motor and that all operations are handled by an extremely reliable microprocessor-controlled electronic logic.

Wherever intensive, heavy duty and extreme weather (winds, storms, etc.) conditions prevail, **Transit 97** is sure to meet the challenge.

Available either with or without built-in continuity battery as well as in the assembly kit for professional installers.



Transit 97C (without battery)



Transit 97L (with battery)

Sprint

A truly innovative operator for swing doors, **Sprint** features:

- compact design and lightweight construction
- a standard built-in battery
- an easily accessible **on-off switch**
- the possibility of selecting the **Push and Go** or **Low Energy** operating mode

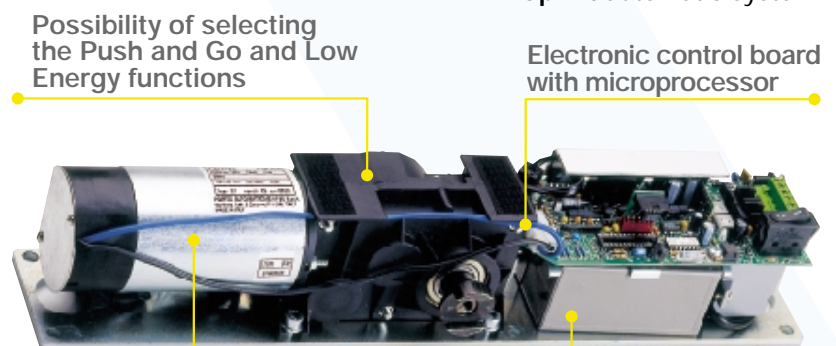
The possibility of selecting the **Low Energy** operating mode simply at the click of a dip switch makes **Sprint** particularly suited for applications where persons with deambulating difficulties are frequent users.

The **Push and Go** mode, also selected via a dip switch, is indispensable in situations where the installation of detection devices for controlling the door is not recommendable.

Thanks to these and other special features, **Sprint** can be considered to be an operator at the top of its range world-wide.



Sprint automatic system



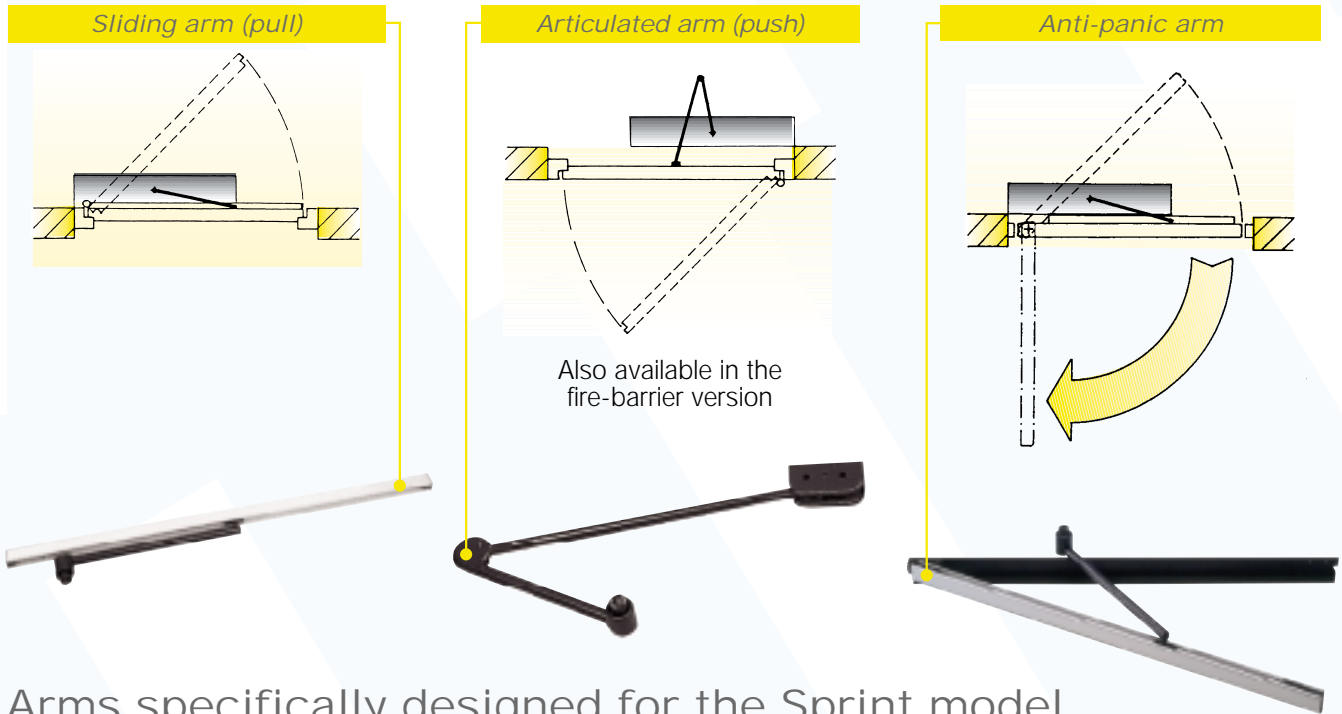
Geared motor with encoder

Battery

Sprint

Types of actuating arms

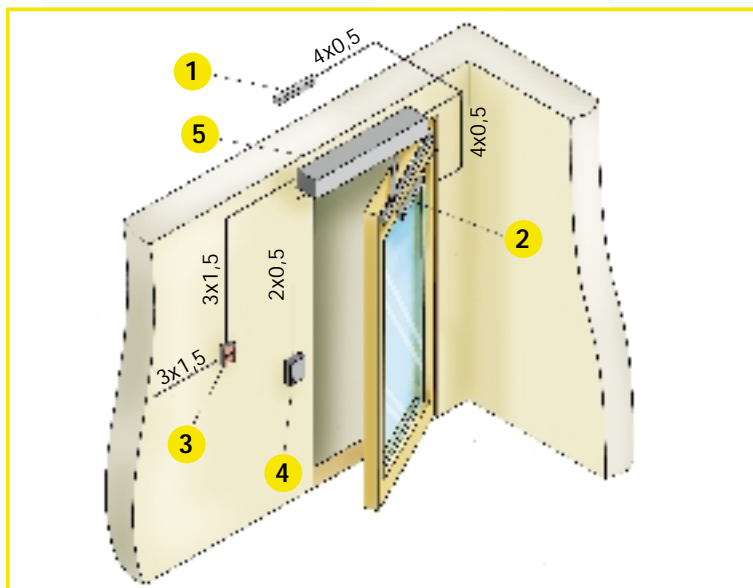
Arms common to all Transit and Supertransit models



Arms specifically designed for the Sprint model



Wiring diagram



Legend

- 1** Radar
- 2** Presence detector
- 3** Switch/isolator
- 4** Selector/pushbutton
- 5** Operator

Devices and accessories

Miniaturized photocells: amplifier, projector, receiver, 7m range.

Key, pull, emergency, and mechanical/pneumatic elbow pushbuttons.

Mechanical function programmers with and without key lock.

Electronic multi-function programmer with extra security functions for access control.

One- and two-way microwave **detector**.

Active and passive infrared beam **detector**.

Floor mats in various sizes.

Table-top and flush-mounting push-button panel.



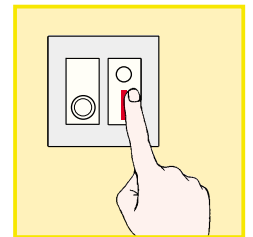
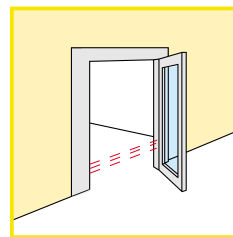
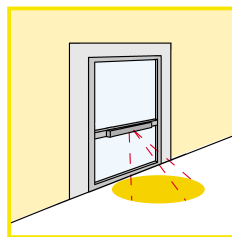
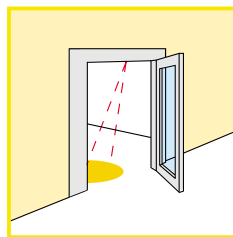
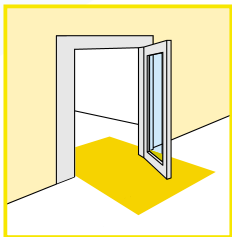
Floor mats

Opening detector

Safety detector

Photocells

Pushbutton panels



Example of specifications for swing door operators

Electromechanical operator series _____ for automatic wing doors manufactured by the Automatic Door Division of DITEC S.p.A. The motor must be set up and wired so as to be able to operate from either 230Vdc or 24Vdc. The automatic electronic control board must be endowed with a microprocessor logic and the limit switch system must be

of the automatic type with encoder for the "intelligent" management of all door movements. The actuator must be set up with an intrinsic-safety device so as to avoid risk of crushing any obstacle eventually encountered during door movement. The box for housing the automatic system should have the following dimensions: _____.

In case of power failure, the operator must be so set up as to allow the manual opening and closing of the door. The operator must be exclusively made up of electromechanical components, that is it must not be fitted with any partially or fully hydraulic or pneumatic systems.

Technical features

| Series | Supertransit 95 | | Transit UE | Transit 97 | | Sprint |
|--|--|-------------|--|--|-------------|--|
| | 95C | 95L | | 97C | 97L | |
| Dimensions (mm) | 116x127x560 | 116x127x800 | 116x127x560 | 116x127x560 | 116x127x800 | 450x80x90 |
| Maximum range (with 1000mm-long wing) | 250 kg | | 100 kg | 250 kg | | 100 kg |
| Operation | Continuous duty | | | | | |
| Box/Housing | Box in extruded aluminium with side panels in plastic material | | | | | Carter in ABS |
| Opening system | Motor-driven | | | | | |
| Closing system | By spring | | | By motor | | |
| Opening speed | 3 to 5 secs | | | 2 to 5 secs | | 1,5 to 3 secs |
| Closing speed | Set at about 70% of full speed for opening | | 4 to 8 secs (adjustable) | Set at about 70% of full speed for opening | | |
| Power supply | 230 V =/50Hz | | | | | |
| Power input | 1 A max | | | | | 0,2 A max |
| Motor | 24 V= | | | | | 12 V= |
| Emergency power supply | — | yes | — | yes | | |
| Electric lock power supply | 1,2 A | | | | | |
| Anti-crush device | Standard | | Intrinsic-safety thanks to very gentle push during opening and closing | Standard | | |
| Limit-switch system | Automatic with encoder | | During opening | Automatic with encoder | | |
| Adjustments | Automatic closing Force adjustment Speed of movement | | Automatic closing Opening speed Closing speed | Automatic closing Force adjustment Speed of movement | | Automatic closing Speed of movement |
| Power supply for accessories | 24 V =/ 0,5 A max | | | | | 24 V = /0,15 A max |
| Controls | Enabling of automatic closing, opening, closing, safety reverse, stop, reset Possibility of using the R6/RK6 selector | | Opening | Enabling of automatic closing, opening, closing, safety reverse, stop, reset Possibility of using the R6/RK6 selector | | Enabling of automatic closing, opening, closing, safety reverse, stop, reset Possibility of using the R6/RK6 selector |
| Push & Go | Can be selected with the dip switch | | NO | Can be selected with the dip switch | | |
| Low Energy | NO | | | | | Can be selected with the dip switch |

Standards: DITEC automatic systems are all CE-listed, and designed and built in compliance with applicable safety requirements as set out in Machinery Directive 89/392/CEE, Electromagnetic Compatibility Directive 89/336/CEE and Low-Tension Directive 73/23/CEE.

DITEC S.p.A. reserves the right to make any modifications it deems fit and opportune for product improvement without prior notice.



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Cert. n° 0957/0

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