



EASY 150

AUTOMATIC MAGNETIC SYSTEM
FOR SLIDING DOORS

BY DIGISONIC SRL

www.digisonic.it

 **DigiSonic**
ELECTRONIC DEVICES

ENG

EASY 150



Accessibility and ease of installation make EASY 150 the most effective solution available on the market today. Thanks to the automatic movement using magnetic levitation, it has been possible to design an innovative and technological sliding rail for doors, opening new scenarios in the field of door automation equipped with sliding rails.

MINIMAL & ELEGANT

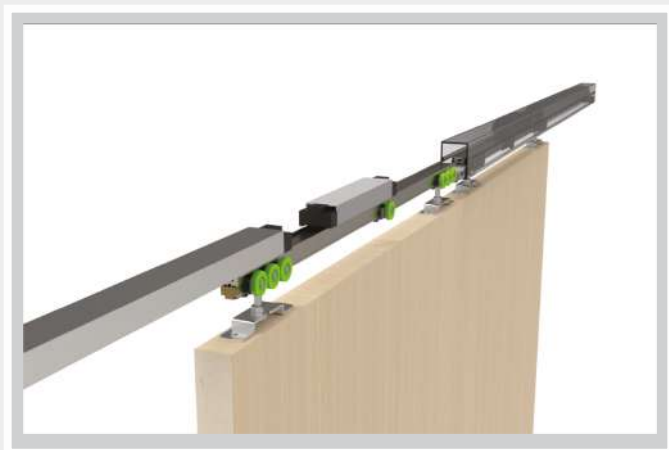
EASY 150 by Digisonic is the smallest and most innovative mechanism for next-generation sliding doors. Designed for a wide variety of interior spaces, it is made of durable anodized aluminum. Highly resistant to oxidation and mechanical stress, it is extremely lightweight and compact. It fits into tight spaces (63 x 48 mm) and enhances the aesthetics of interiors.



FUNCTION

for magnetic levitation sliding doors

Easy 150 abandons traditional components such as electric motors, belts, and pulleys for a noise-free experience. Its sliding trolley is powered by a static motor that glides smoothly on wheels without direct contact. Inside, the components include a magnetic motor, a power supply, a sliding trolley with permanent magnets, and a control circuit. The permanent magnets are attracted by the motor's field, but with an electrical impulse, the coil's polarity changes, alternating attraction and repulsion, thus guiding the trolley's movement. The innovation of magnetic levitation in Easy 150 offers a compact, durable, and ultra-quiet design. It perfectly fits the door's dimensions, supporting up to 150 kg.



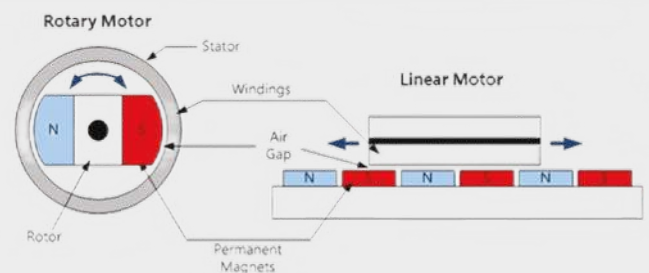
OPERATING PRINCIPLES

MAGNETIC LEVITATION MOTOR

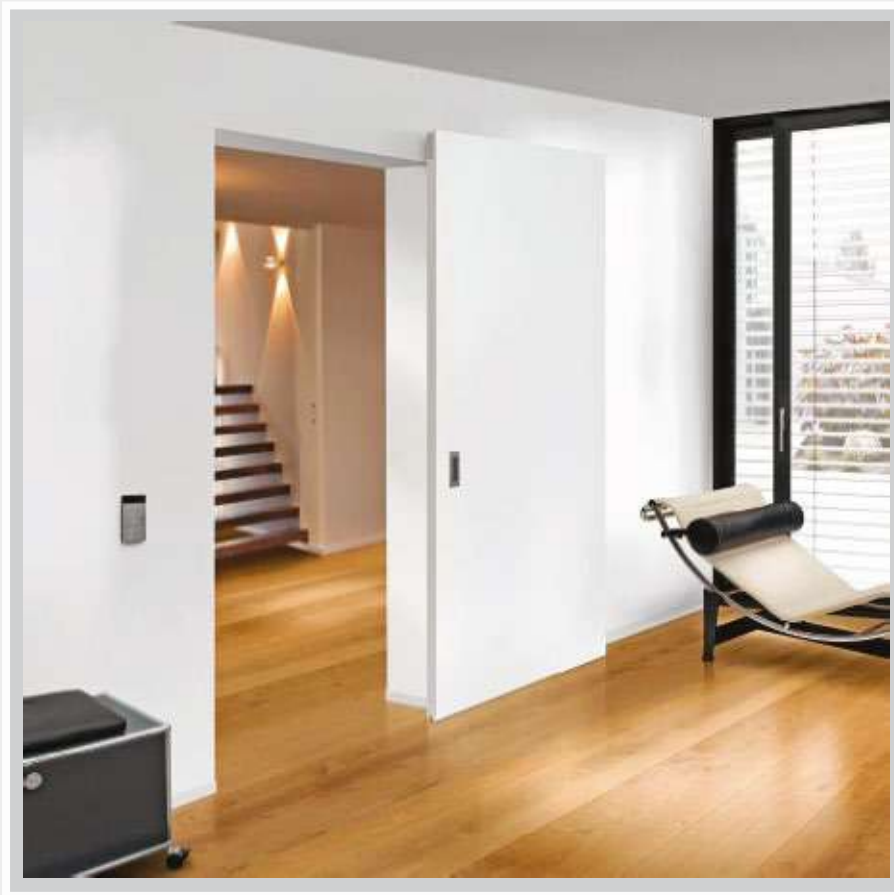
The technology of magnetic levitation (Maglev) offers applications ranging from high-speed trains to escalators. Its principle is based on the repulsion of magnetic poles to create levitation. There are various Maglev systems, including electromagnetic suspension and electrodynamic suspension. Despite challenges such as high costs and safety concerns, the future of Maglev is promising due to its efficiency and environmental benefits.

CURIOSITY

The Maglev, or bullet train, operates on magnetic levitation, rising above the tracks without contact. The electromagnetic suspension system, with magnets on both the train and the tracks, allows for frictionless movement. It is the fastest train in the world and provides a comfortable and quiet environment.

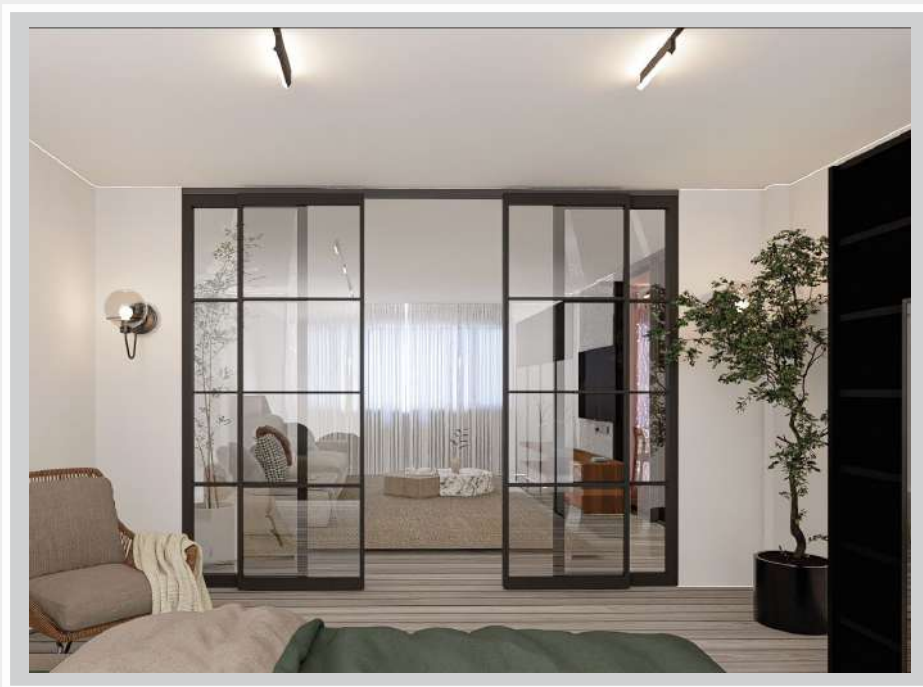


FLEXIBILITY & CUSTOMIZATION



The Easy 150 operator is customized for each door, meaning that during the construction and design phase, Digisonic takes into account the requests and needs of our customers to achieve the best results with maximum satisfaction. The operation of Easy 150 can be activated through the use of buttons, radar sensors, numeric keypads, and fingerprint readers, thus providing the option to choose and optimize the system's operation.

SECURITY



Unlike traditional transmission units, Easy 150 has no motors, flaps, belts, arms, or other mechanical elements that can cause noise. The sliding trolley glides without any contact, propelled like a feather by a high-energy static motor. The low energy consumption, achieved through new technologies, allows for savings of over 50% compared to other conventional solutions.

ATTENTION AND SAFETY

In Low Energy mode, when people or obstacles hit the door, a reverse movement is activated. It's super safe for children and the elderly (in full energy mode, safety sensors must be installed). In case of a power outage, the door can be opened manually without any resistance.

INNOVATION



YOU CAN MANAGE EVERYTHING WITH JUST ONE CLICK

The innovative magnetic levitation of Easy 150, thanks to its compactness and silence, opens up a wide range of uses beyond just sliding door operators. Its versatility, the ability to customize applications, and adaptability in size make Easy 150 the ideal solution for moving elements such as blinds, curtains, sliding and concealed doors for kitchens, as well as cabinet and furniture doors. It offers a high-tech alternative to remote controls in both residential and marine sectors.

EFFICIENCY

By not using mechanical components, the system is silent and maintenance-free, energy-efficient, and powered by 24 V low voltage.

COMFORT & FUNCTIONALITY

MANUAL ACTIVATION

By gently pushing the door in the "open" direction by 2 cm, it will open softly and silently. Ideal for home and healthcare applications.

LOW ENERGY MODE

The DIGISONIC Easy 150 operator features two operating modes. In Low Energy mode, as soon as a person or obstacle hits the door, the operator reverses its movement, preventing potential hazards and ensuring total safety, especially for children and the elderly.

IN CASE OF EMERGENCY

In case of a power outage, continuity of operation is ensured by Digisonic through the installation of backup batteries that activate until power is fully restored. In any situation, even during a total blackout, manual intervention for opening/closing the door is still possible.

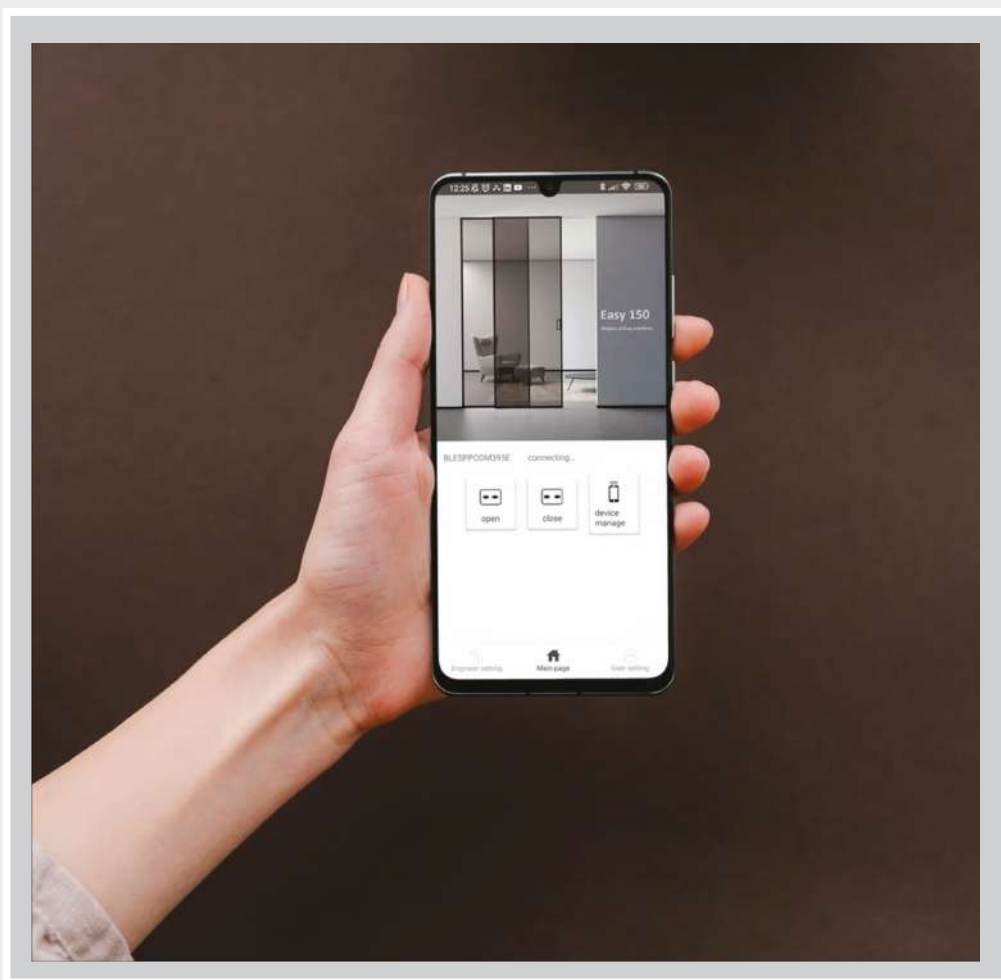
COMPLIANT WITH ADA REGULATIONS

To allow free access for individuals with mobility disabilities, Easy 150 is equipped with all ADA requirements, ensuring a barrier-free passage.

TOTAL OPENING

With the door fully open, if held with your hand for about 3 seconds, it will stay open. The automatic mode activates when the door is closed manually

EASY App

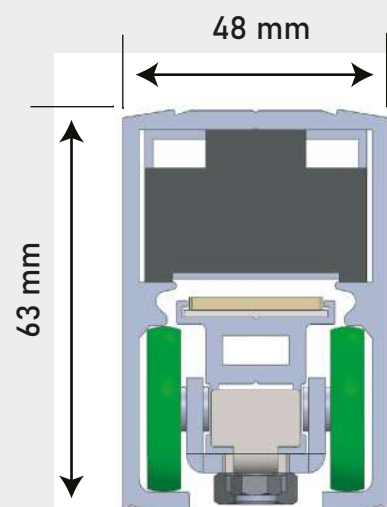


With our Android app, you can easily configure and manage all the settings of the sliding door, from opening/closing to touch sensitivity, for maximum convenience. You can choose between Easy 75 and Easy 150 based on the load capacity, up to 75 kg or 150 kg per panel. It is advisable to adjust the maximum push via the app to avoid restarts due to insufficient power, according to the load capacity

SINGLE, DOUBLE or TELESCOPIC

THE RIGHT SOLUTION FOR YOU

All models in the Digisonic Easy line can be customized for single or double door solutions. We start with the selection of doors and design a tailored solution, avoiding modifications to fit them to our tracks. The choice of model depends on the load capacity, up to a maximum of 150 kg, and the width of the panel, which can reach up to 150 cm



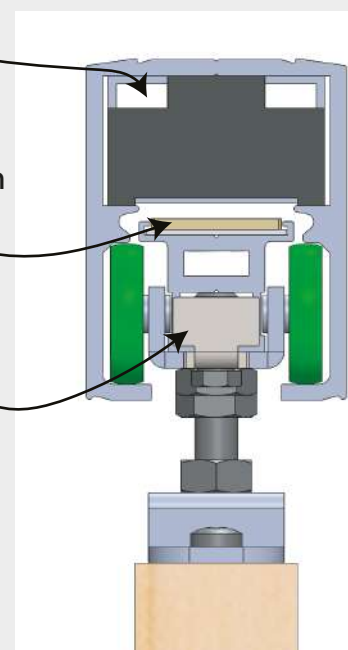
TECHNICAL INFORMATION

Weight Door Panel	20 - 150 Kg
Opening Velocity	0.2 - 0.6 m/s
Closing Velocity	0.2 - 0.6 m/s
Full Stop time	0 - 30 s
Temperature	-40 °C - +°60 C
Power	120 W
Manual Opening Power	Less Than 10 N
Length of rail	6000 mm (MAX)

Linear
Motor

Neodymium
Magnets

Sliding
trolleys



SINGLE DOOR LEAF



SINGLE DOOR LEAF

A standard solution for everyone, starting from a width of 80 cm up to a maximum of 150 cm per door. The length of the track will match the width of the door and can be installed either flush or on the wall using the included support brackets

Model	Width of the Door leaf	Length of the Rail
Easy 150/80	80 cm	160 cm
Easy 150/90	90 cm	180 cm
Easy 150/100	100 cm	200 cm
Easy 150/110	110 cm	220 cm
Easy 150/120	120 cm	240 cm
Easy 150/130	130 cm	260 cm
Easy 150/140	140 cm	280 cm
Easy 150/150	150 cm	300 cm

DOUBLE DOOR LEAF



DOUBLE DOOR LEAF

Through a synchronization cable, it is possible to connect two tracks for the simultaneous opening and closing of two doors. The double-leaf version of a sliding door provides very wide openings, and when paired with a glass door, it ensures brightness.

Model	Width of the Door leaf	Length of the Rail
Easy 150/80S	80 + 80 cm	160 + 160 cm
Easy 150/90S	90 + 90 cm	180 + 180 cm
Easy 150/100S	100 + 100 cm	200 + 200 cm
Easy 150/110S	110 + 110 cm	220 + 220 cm
Easy 150/120S	120 + 120 cm	240 + 240 cm
Easy 150/130S	130 + 130 cm	260 + 260 cm
Easy 150/140S	140 + 140 cm	280 + 280 cm
Easy 150/150S	150 + 150 cm	300 + 300 cm

TELESCOPIC



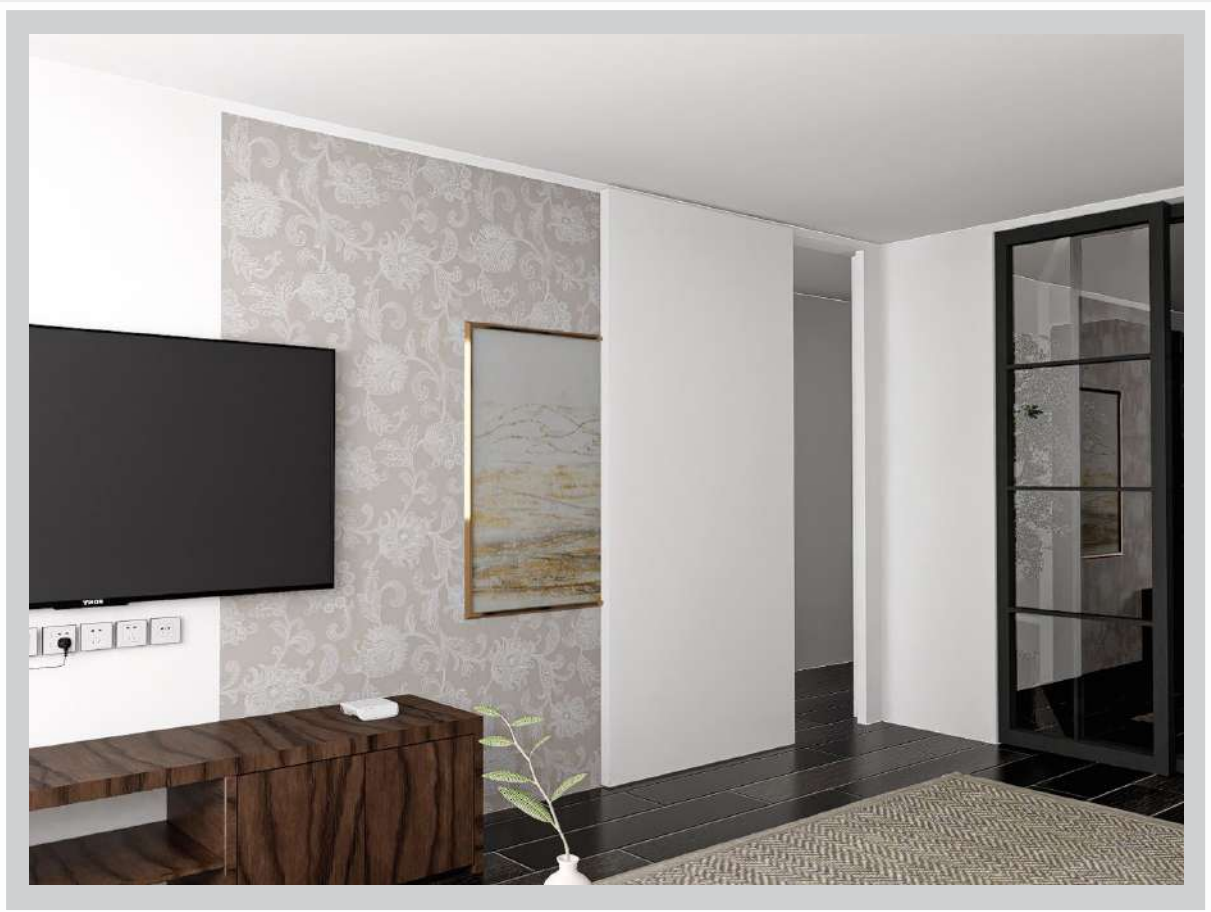
SPACIOUS OPENINGS AND WIDE PASSAGES

With the new telescopic system, we can now control multiple doors, widen passages, and create more space between rooms, all using magnetic technology.

WELL-DISTRIBUTED AND CONNECTED SPACES

With Digisonic Easy Collect, it is possible to control the representation of open spaces using a new management concept, featuring presence sensors and silent door opening. The Easy 150 app for iOS/Android allows for customization, including fully opening doors for open spaces, closing for free division, or normal automatic operation.

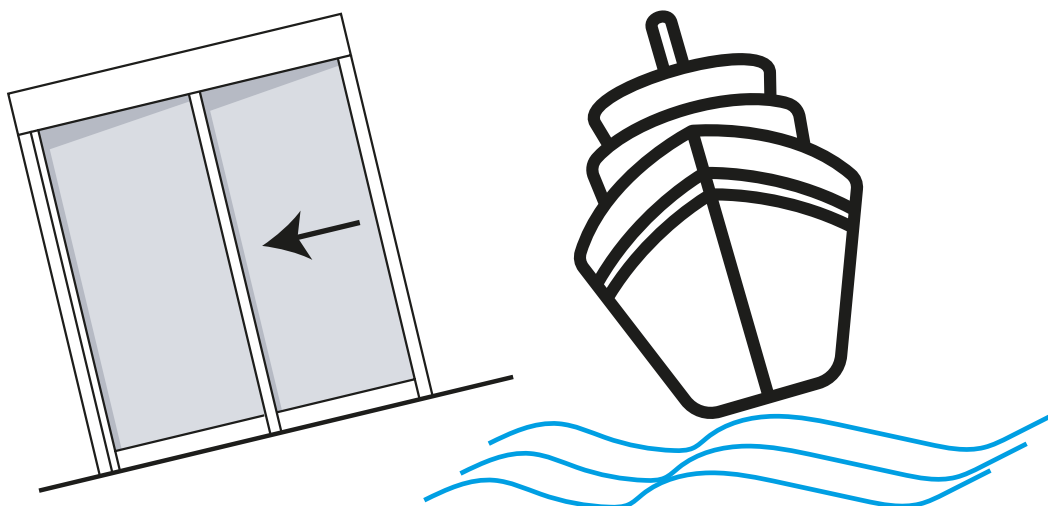
EASY INVISIBLE



DISAPPEARING SOLUTION

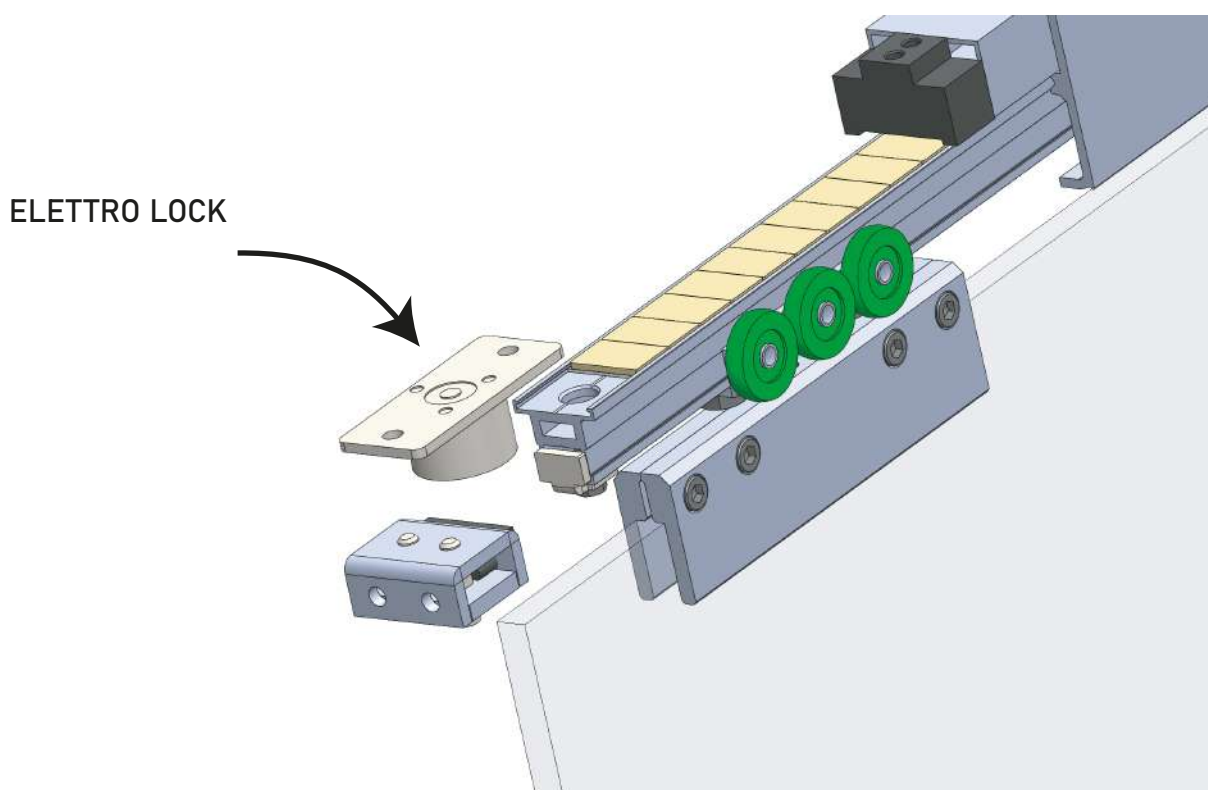
Digisonic offers the most aesthetic and elegant solution for automatic doors and wardrobe doors, which remain flush with the wall, creating an attractive play of geometric shapes ideal for a minimal and modern style. The magnetic trolley is attached to the back of the door, while the motor and power supply are wall-mounted in line with the wall.

EASY 150 MAR



EASY MAR

specifically designed for nautical use, addresses the issue of boat rolling. Two electrolocks mounted at the ends of the track and dedicated software ensure secure closing and opening in all adverse conditions.



PRIVACY

Digisonic Easy 150 ensures maximum privacy in private and public bathrooms, secret rooms, and changing areas. Simply press a button to activate an electric lock that guarantees exclusive access once inside. An intelligent LED button system outside the bathrooms indicates whether they are free or occupied. Inside, two buttons allow for easy opening and closing, with a red LED indicating the lock status. In case of emergency, a call button alerts authorized personnel for assistance. Even with the lock activated, manual opening is possible by cutting off the power if necessary.



CURIOSITY

Electromagnetic or ferromagnetic bolts?

The difference lies in their operation: electromagnetic locks use a coil placed on a soft magnetic plate to create a magnetic field when powered, while attractive ferromagnetic locks add a permanent magnet to ensure continuous attraction. Applying current to the coil neutralizes the magnetic field, releasing the ferromagnetic disc and allowing the door to open.

THE ADVANTAGES OF EASY 150 PRIVACY

1. Power outage? No problem! The technology of our motherboard ensures uninterrupted service thanks to backup batteries.
2. Keep your valuables safe with Digisonic's innovative battery backup system.
3. The development of our motherboard means peace of mind for your security needs.
4. Protect your important documents and valuables with our uninterruptible power system.
5. Experience the stability and reliability of Digisonic with our advanced systems.



AVAILABLE IN DIFFERENT COLORS

Customize your Easy 150 with vibrant colors! Experience the modern elegance of metallic silver doors. Discover the versatility of magnetic doors in various appealing shades. Explore the spectrum of colors for magnetic doors to find your perfect match.



ACCESSORIES

ACCESSORIES

DOOR OPENING/CLOSING DEVICES

Digisonic Easy 150 is compatible with buttons, radar sensors, digital keypads, and a wide range of components available on the market. Our selection of opening accessories can be tailored to meet individual customer needs



DG420 RADAR

The DG420 sensor integrates seamlessly into the decor, positioning itself behind non-metallic panels. Thanks to its compact size, this sensor eliminates the need for manual devices, adding elegance and modernity to your home. Perfect for access to the kitchen and cabinets, it is ideal for situations where your hands are full.



PS SERIES

They are push buttons, with or without LED. They are installed next to the door, and a light press activates the door opening mechanism

ACCESSORIES



CONTACTLESS PS100

The PS100 is a microwave and contactless sensor, ideal for environments that prioritize hygiene, such as hospitals or clean rooms. It can be activated by foot movement and can be perfectly integrated into furniture behind non-metallic panels for a discreet solution.



KEYPAD

The device is part of the new generation of multi-functional remote access controls, powered by a 32-bit AMR core microprocessor in 'Reader' mode. It is suitable for offices, residences, communities, banks, and hotels. Access options include fingerprint, magnetic card, or PIN code, all managed through device registration and user manual instructions. Parameter settings are accessible via an Android/iOS application.



CONTROLBOARD EASY 150

This is a control unit with an integrated backup battery designed to offer enhanced functionality and safety. The Easy 150 system operates without interruptions, thanks to the battery that ensures continuous operation until power is restored. In case of an emergency, it opens and keeps the door open.

ACCESSORIES



D- 218

SAFETY BEAM SENSOR

This is a double-beam infrared safety sensor that will be installed on both sides of the automatic door as an anti-pinch feature. Widely used in automatic doors as an auxiliary safety presence function, it can perform detection accurately and reliably. By detecting people or objects, it provides the signal to open the automatic door, helping to avoid hidden dangers.



M-234

SIDE PRESENCE SENSOR

It features a single group or two groups of split lens connected transceiver input, with good



M-531

MINI MICROWAVE SENSOR

The microwave sensor, also known as a radar sensor, RF, or Doppler sensor, is commonly used in automatic door systems or other electronic devices to detect pedestrian movement using electromagnetic radiation. It can detect motion by applying the Doppler effect and projecting microwaves that bounce off surfaces and return to the sensor. It measures and detects the amount of time the signal takes to be reflected back to the sensor, known as echo time. It signals the control unit to open the door.

INOX



ELECTRIC SECURITY LOCK

Dimensions of electric lock	170Lx26Wx39.5H (mm)
Dimensions of mechanical hook	170Lx26Wx93H (mm)
Voltage	DC24V (Order)
Current	NO:120mA±10%
Signal Output	Door Status Signal Output (NO/NC/COM)
Feature	Fail Secure (NO)
Retaining Force	Circa 300 kg
Waterproof Rating	IP 65
Operating Temperature	-20°C~+60°C
Humidity Level	0~95% (non-condensing)
Material	Su304 Stainless Steel
Weight	1.5 kg

INOX



Dimensions of electric lock	150Lx25Wx38H (mm)
Dimensions of mechanical hook	150Lx25Wx53H (mm)
Voltage	DC24V (Oder)
Current	NO:850mA±10%
Signal Output	Door Statur's Signal Output (NO/NC/COM)
Feature	Fail Secure
Retaining Force	Circa 300 kg
Waterproof Rating	IP 65
Operating Temperature	-20°C~+50°C
Umidity Level	0~95% (non-condensing)
Material	Su304 Stainless Steel
Weight	1.5 kg

  MARKING ELECTROMAGNETIC COMPATIBILITY ELECTRICAL SAFETY LASER SPECTROSCOPY ENVIRONMENTAL PHYSICS		G.S.D. S.r.l. Certified in accordance with UNI EN ISO 9001:2015 by TÜV Rheinland Italia S.r.l. Certificate N. 39 00 1850509
G.S.D. Srl PISA - Italy	Test Report n. 21489	Rev. 00.DRAFT00
Manufacturer		
Digisonic S.r.l.		
Address		
Via Libeccio, 39/2 55049 Viareggio (LU) Italy		
Test Item Name		
EASY 150		
Testing Laboratory Name		
G.S.D. S.r.l.		
Address		
Via Marmiceto, 8 56121 Pisa (PI) Italy		
Tel/Fax		
+39 050 984254 / +39 050 984262		
P.IVA/VAT		
01343950505		
http – e-mail		
www.gsd.it - info@gsd.it		
Location and Date of Issue		
Pisa, 2022 January, 18		
G.S.D. s.r.l. Via Marmiceto, 8 56121 OSPEDALETTO - PISA Tel. 050.984254 - Fax 050.984262 P. IVA 01343950505 SENIOR EMC TEST MANAGER Dr. Gian Luca Genovesi  QUALITY MANAGER Dr. David Pelliccia 		

EASY 150

BY DIGISONIC SRL

ADDRESS

Via Libeccio 39/2 55049 Viareggio (LU)

TELEPHONE

+39 0584 383530

EMAIL

info@digisonic.it

WEB

digisonic.it



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www.digisonic.it

