ACCESSCO

Total Integration In Entrance Solutions

Automatic Sliding Operator EZ-SL

Technical Product Brochure

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Building and Construction Authority

bizSAFE 4

Product Overview

The key characteristics of the EZ-SL are its reliability and efficiency. It incorporates advanced door technology and sophisticated components to deliver a state-of-the-art automatic sliding door system.

EZ-SL operates electro-mechanically, comprising a control unit, motor unit, transmission system, emergency unit, as well as either an electrical locking device (fail-secure) or an electro-mechanical motor brake (fail-safe). All components are fully assembled within the mounting profile, with an optional integrated cover for a clean and compact installation. The motor unit features a low-gear, high-performance DC motor equipped with a precision gearbox and micro-digital encoder to ensure smooth, stable, and accurate operation.

EZ-SL is capable of handling single-leaf, bi-parting, and telescopic door configurations, and is designed to suit a wide range of entrance types. It is adaptable to various door leaf materials, including full-frame doors, timber doors, steel doors, aluminium doors, and transparent glass doors.

EZ-SL operates with high accuracy and performance. By precisely monitoring the direction of movement and the door position, the system delivers accurate control at every stage to ensure maximum safety. To minimise the risk of users being struck by closing doors, the system is equipped with safety devices that automatically reverse the door to its open position upon detecting resistance. If any obstruction is detected between open door panels, the system will stop immediately and resume closing only after a preset time delay.

EZ-SL can be integrated with an emergency unit that will automatically open or close the door in the event of a power failure. It can also be interfaced with a building fire alarm system or smoke detector for enhanced safety compliance.

Industry Applications

ACCESSCO delivers reliable automatic door solutions across a wide range of industries, designed for safety, accessibility, and operational efficiency.

Healthcare


Food & Beverage


Education


Hospitality & Lifestyle


Retail


Commercial

Technical Specifications

Summary of Technical Specifications	
Operator Dimension	Height 100mm x Width 160mm
Main Power Supply	Auto Switch 90~250V +/- 50/60 Hz
Power Consumption	max 180w
Auxiliary Voltage	24V DC
Drive Unit	40V 100MW Made in Germany
Max Door Weight	Single - 150kg upgrade ~200kg Bi-parting 240kg upgrade ~360kg
Max Opening Speed	up to 1400mm/sec (Bi-parting)
Max Closing Speed	up to 1000mm/sec (Bi-parting)
Hold Open Time	0 ~ 60sec
Max Opening Width	Single - 800~2500mm Bi-Parting - 800~3200mm
Ambient Temperature	-15°C to +50°C
Humidity Range	up to 85%
Intelligent Processor	Self Learning & Auto Error Detection
Safety Compliance	DIN18650–1 : 2010 EN16005–1 : 2010/AC:2010
Mechanical Performance & Durability Test	Test 1 = 1,000,000 Cycle Test 2 = 2,000,000 Cycle

Drive Unit & Motor System

✓ Durable and reliable high-capacity DC drive unit (DC40V, 100W), manufactured in Germany, equipped with a built-in motor lock (not utilising DC current pressure or electromagnetic holder as a locking mechanism) and precision digital encoder to ensure superior accuracy and performance.

✓ Locking device of failsafe type, made in Germany with integrated motor lock. Alternatively, a fail-secure electro-mechanical locking option is available upon requirement.

Power Transmission System

✓ Power transmission is driven by a high-quality polyurethane toothed belt reinforced with steel threads, manufactured in Italy to prevent belt over-stretching and shredding. It is highly suitable for clean environment applications. The tensile strength has been tested and certified by TÜV PSB.

Intelligent Control System

✓ Equipped with a self-learning intelligent control unit designed for true plug-and-play operation, eliminating complicated initialisation procedures and the need for any handheld controller.

✓ The system features permanent door position sensing through a non-contact distance measuring system, ensuring precise and reliable operation at all times.

✓ An intelligent automatic error detection and indication system with integrated display panel enables fast, convenient, and time-saving diagnostics.

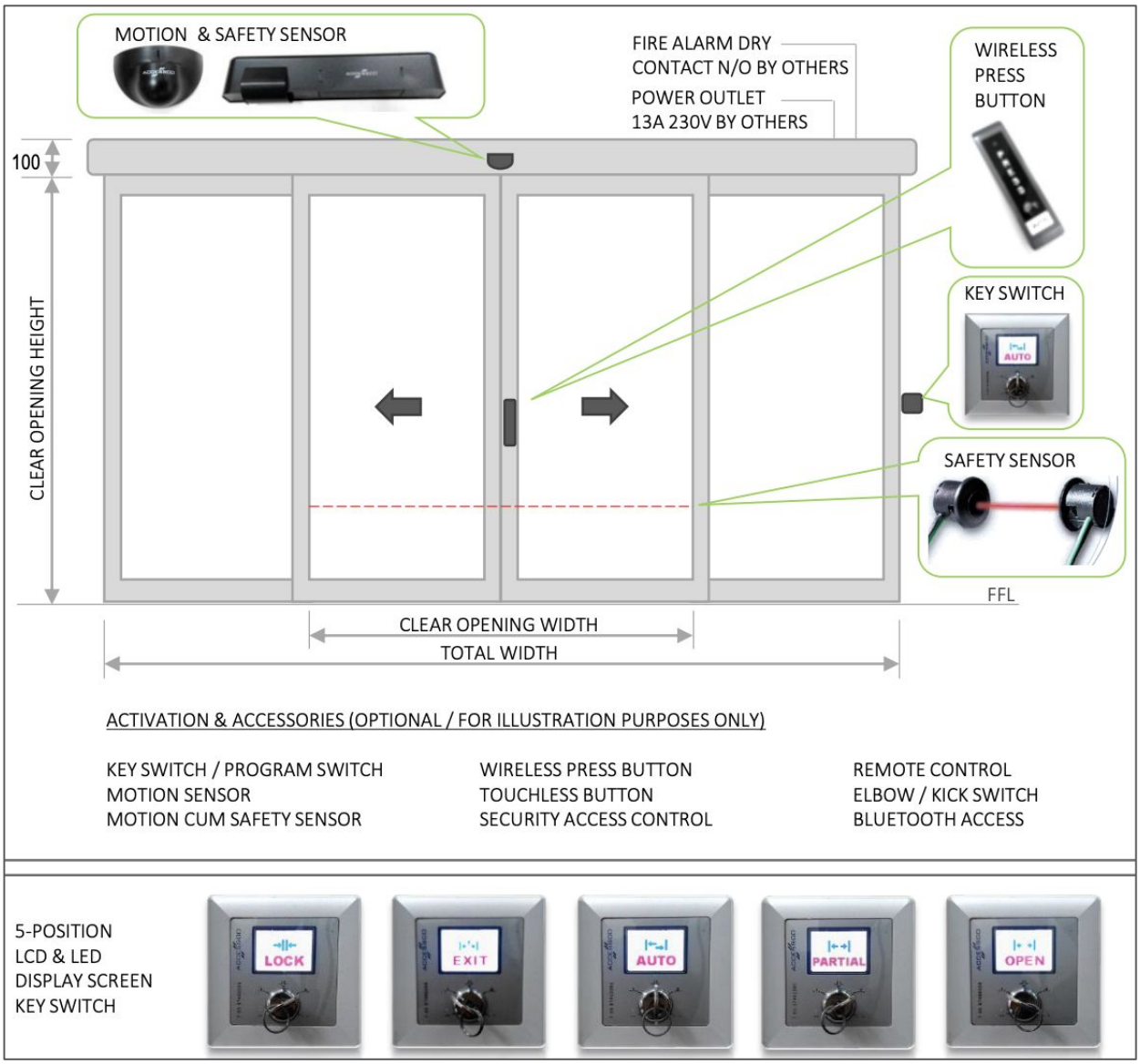
✓ A master program switch is included to facilitate centralised control of multiple doors.

Safety Features

✓ The safety auto-reverse closing function ensures that the door will immediately re-open upon encountering resistance during closing. The sensitivity can be adjusted to a feather-touch setting of less than 150N for enhanced user safety.

✓ The safety auto-reverse opening function ensures that if resistance is detected during opening, the door will stop and gently reverse back towards the closing direction to prevent injury or damage.

Technical Specifications



User Interface & Control Modes

- ✓ The key switch is equipped with an LCD display panel for clear identification of the selected operating function.
- ✓ The system features a 5–way selection mode, comprising: LOCK, EXIT, AUTO, PARTIAL, and OPEN.

Power Failure & Emergency Operation

- ✓ In the event of a power failure, the emergency back-up unit will automatically open the door and maintain it in the open position in compliance with BCA requirements.
- ✓ Alternatively, during power failure, the door can operate in standby mode for approximately 5 hours. With the emergency back-up unit (UPS recommended), the door can continue automatic operation for approximately one hour.
- ✓ When the power level of the emergency back-up unit becomes low, the final door position can be configured to remain either open or closed.
- ✓ The system will automatically resume normal operation once the main power supply is restored.
- ✓ During fire alarm activation, the door will automatically open and remain in the open position until the fire alarm is deactivated.

Technical Specifications

Operational Performance

- ✓ Designed for extremely sleek and silent operation, the system is capable of handling continuous opening and closing cycles with ease, even in high-traffic environments.
- ✓ The Push & Go function allows the door to be manually activated without the need for sensors, enhancing user convenience and flexibility.
- ✓ The One-Pulse Open / One-Pulse Close function enables simple and efficient control operation.
- ✓ A precisely adjustable partial opening function allows the door to open to an exact required width, optimising energy efficiency and traffic flow.
- ✓ During partial opening mode, if traffic becomes continuous, the intelligent processor automatically detects heavy traffic conditions and switches to full opening mode, remaining fully open to manage flow efficiently. Once traffic normalises, the system automatically resumes standard partial opening operation.

Door Carriage & Mechanical Structure

- ✓ The door-leaf weight is evenly distributed across two roller carriages to ensure stable and balanced operation. Each carriage is equipped with two heavy-duty high-tension N6 wheels for smooth, silent, and long-lasting performance, along with a de-railing roller guide to prevent the door leaf from disengaging from the track in the event of accidental impact.

System Integration & Interfacing

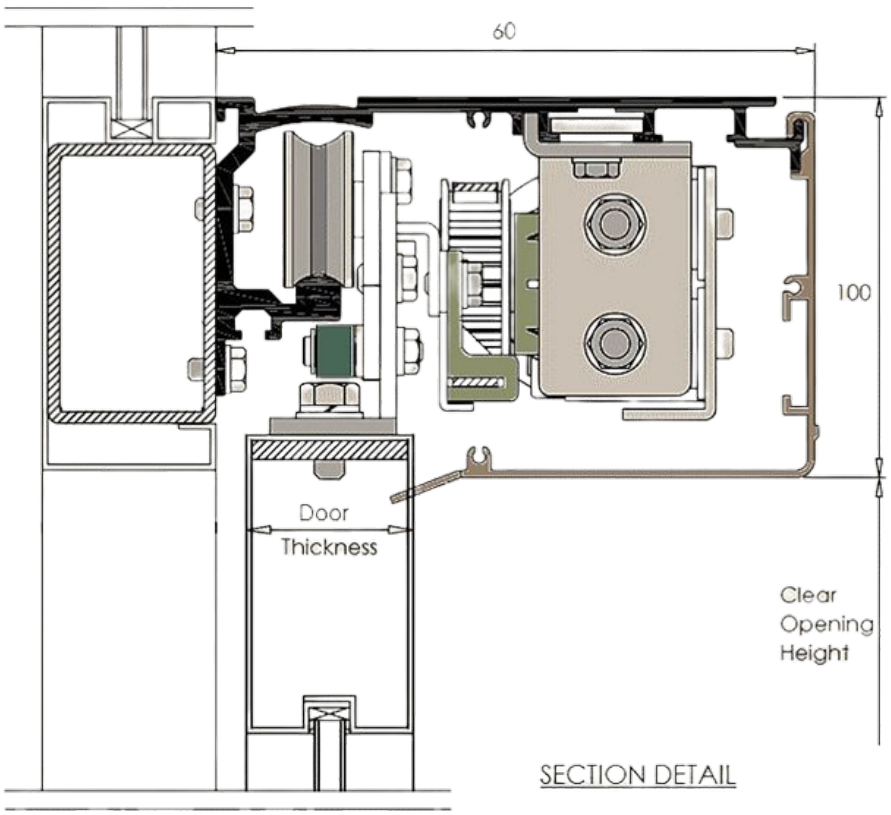
- ✓ The system supports interfacing via RS485 for seamless integration with building management and access control systems.
- ✓ It is adaptable to both Normally Open (NO) and Normally Closed (NC) signal configurations, providing flexibility for various control requirements.
- ✓ A built-in two-door interlocking function is included as standard, with the option to expand to multiple doors when required.

Compliance & Certifications

- ✓ Compliance To DIN 18650 Safety Requirements
- ✓ Compliance To EN 16005 Safety Requirements
- ✓ CE Compliance To EC Directive 2014/35/EU LVD
- ✓ CE Compliance To DIN Directive DIN EN 60034–1:2010/AC:2010

Load Capacity

- ✓ The standard weight loading capacity is rated at:
  - ○ Single-leaf: 150kg
  - ○ Double-leaf:240kg
- ✓ The system is upgradeable to accommodate higher load requirements of:
  - ○ Single-leaf: 200kg
  - ○ Double-leaf: 360kg



SECTION DETAIL

Inspection and Maintenance Services

IMPORTANT : To ensure maximum safety and optimal performance, the operator must be regularly serviced and maintained by authorised personnel. Approved safety devices must be installed and properly maintained at all times.

The European Union has introduced EN 16005, a regulation governing pedestrian safety in the use of power-operated doors. This standard establishes a uniform level of pedestrian protection across the entire European region for all new installations.

As the standard identifies all parts of powered entrances as potential hazard zones during both opening and closing, **the ACCESSCO Automatic Door Operators is equipped with the necessary components, activation devices, and safety sensors to minimise risks and prevent accidents, while optimising traffic flow**. Safety is further enhanced through our soft-closing feature, ensuring smooth and controlled operation.

ACCESSCO's technical division is specially trained to manage new installations, as well as renovation and retrofitting projects, by advising customers on appropriate system upgrades. Our dedicated maintenance team supports ongoing servicing to ensure safe, reliable operation and to maximise the lifespan of your automatic door system. By using only genuine ACCESSCO spare parts, customers benefit from peace of mind and cost-effective long-term performance. The ACCESSCO Automatic Door Operator is continuously enhanced and rigorously tested to meet day-to-day operational demands while prioritising user safety.

The ACCESSCO Automatic Door Operator complies with current European and American standards and directives, including EN 16005, DIN 18650, CE requirements, and ANSI A156.10.

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