



## ES T-7

### Electromechanical Unit for Swing Gates

It is the core unit for pedestrian access control equipment used for passage management in public places. It is a high-class mechatronics device with electromagnetic clutch, DC power-assisted drive and anti-panic design.



railway/subway/ bus stations



parks , scenic spots



office buildings and industrial plants



ns, movie theatres ,exhibition centers



import and export ports, quays

## Specification

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### Physical dimension (mm) and Weight (kg)

Length: 125mm (4.92 inches)

Width: 87mm (3.43 inches)

Height: 790mm (31.10 inches)

Weight: 10kgs( 22.05 pounds)

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### Main materials

Frame work: 2.0mm SUS304 stainless steel

Electromechanical Unit Base: 45 steel with Zinc plated

Leaf: PMMA/flame retardant PU(optional)/toughened glass(optional)

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### Performance

Transmission mode: servo-position drive

Safe mode: the arm dropping function provides free and unobstructed safe passage for users in case of power failure

Power-assist drive: DC brushless motor

Gate opening mode: side by side swing for 90°

Opening/closing time: 0.4~0.8s(adjustable)

Passage width: 600~980mm(900mm above for special needs)

Gate travel angle: 90°or 180°

Gate dimension: 278~480mm (customizable); Standard: 278mm

Noise: standby status: ≤40db; working status: ≤52db

Passthrough rate: 40 passages /minute in normally closed mode; 60 passages/minute in normally open mode

Driver life: >5 million times

MCBF>2 million times

MTTR≤10 minutes

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### Features

- Mechanical device, rational gates position, current detection and entrance sensor regulate and protect user from being trapped.
- The system is equipped with stepless position device and the operation process is controlled by sensors without mechanical impact.
- The default single passage is composed of two single-units; Multi passages are composed of two single-units and multi double-units.
- Gate operation mode: normally closed or normally open(optional).
- Swing angle: 90 for one direction passing / ±90°for bi-direction passing

- Speed: 5 levels (adjustable).
  - Starting torque and brake torque of motor are adjustable.
  - Motor combined rotary encoder provides steady operation; gates status is checked when working.
  - Anti compact: gates cannot be opened in closed status by external force thanks to its special mechanical structure.
  - Contact force between gates and human body is controlled and checked by Hall sensor and electro-optic rotary encoder. If the force is more than 2 kg (default and adjustable), gates will open automatically and it stops working until user leaves.
  - Protection functions: anticollision, antistall, antideadlock, over voltage, over current and power surge.
  - Preventing and warning the illegal operations.
  - Auto gates opening in case of power failure or other extraordinary situation.
  - Standard external electric interface with photoelectric isolation enhance incorporate all kinds of control equipments thus extremely convenient for system integration.
  - Special ITE is convenient for test. The default factory parameters can be changed.
  - Remote control and setup.
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### Electrical and operating requirements

Control unit: electromechanical unit controller and passage controller

Operating voltage: DC24V

Starting power: 95W for single unit; 150W for a passage

Averager power: 30W for single unit; 60W for a passage

Max power: 40W for single unit; 80W for a passage

Operating temperature: -20 to 70°C(-4 to 158°F)

Storage temperature: -40 to 80°C(-40 to 176°F)

Relative humidity: 0 to 95%RH

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### Communication

Standard RS232 port

Digital I/O

Industrial RS485/CAN BUS (optional)

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### Operation interface

ITE, please refer to its manual

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### Installation

Power line grounded well

Please refer to ES T-7 installation drawing