



Speed Gates

ES3100

Intelligent Speed Gates

Speed Gates is an intelligent entrance control equipment with contactless entrance inspection and control. The latest mechatronics control and drive technology is used in this equipment. The entrance is controlled by multigroup sensors granting access through our unique retractable transparent gateway. The authorised passage will be allowed, while the unauthorised passage will be straightly prohibited.



railway/subway/ bus stations



parks , scenic spots



office buildings and industrial plants



arts, movie theatres ,exhibition centers

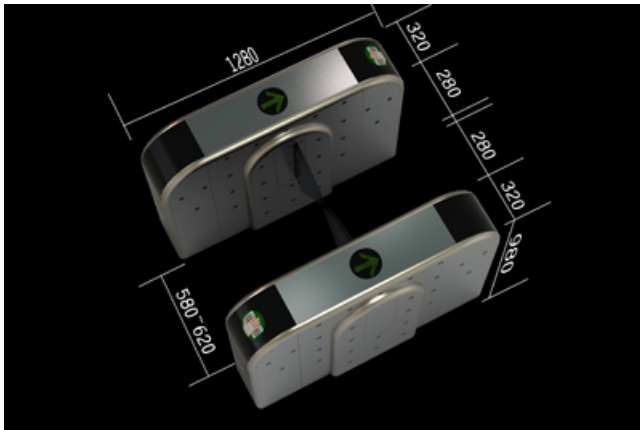


import and export ports, quays

ES3100 Intelligent Speed Gates

Technical Specifications

Physical dimension (mm) and Weight (kg)



Length: 1280mm(50.394 inches)
Width: 320mm(10.499 inches)
Height: 980mm(38.583 inches)
Weight: 100kg(220.462 pounds)
Packaging: length(1400mm),width(400mm),height(1200mm)

Main materials

Housing: 1.5mm thick SUS304 Grade Brush stainless steel
Framework: 2.0mm SUS304 stainless steel
Electromechanical unit: 45# steel with Zinc plated
Leaves: PMMA

Electromechanical unit performance

Transmission mode: servo-position drive
Safe mode: free passage in case of power failure
Power-assist drive: DC brushless motor
Gate opening mode: side by side combination
Opening/closing time: 0.4~0.8s(adjustable)
Passage width: 580--620mm
Gate travel distance: 278mm(for single gate)
Noise: ≤ 52 db; gate opening and closing: ≤ 55 db
Passthrough rate: 35 passages /minute in normally closed mode; 60 passages/minute in normally open mode
Driver life: 5 million times

Features

- Multigroup photoelectric sensors in real-time monitoring the entrance status; precise logical identification; accessible authorized passage
- 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.

- Digital-controlled (CNC) processing technology, fine surface treatment and corrosion resistance.
- Easy passage, even with bags or luggage
- Anti-trailing: security level 2 (See Remarks)
- Passthrough modes: one or both directions(optional); adjustable passthrough rate; optional operation modes.
- Orientation pictogram: passage direction indicator
- Lightning protection and leakage protection
- Protection functions: anti-pinch, anticollision, antistall, over voltage and over current and powersurge
- Preventing and warning the illegal operations
- Standard external electric interface with photoelectric isolation enhance incorporate all kinds of control equipments thus extremely convenient for system integration
- Remote control and setup

Electrical and operating requirements

- Power supply:100V to 240V AC
- Frequency range:single-phase 50Hz to 60Hz
- Operating voltage:DC 24V
- Current: 300mA in standby condition; 4A(maximum operating current)in working condition
- Operating temperature: -20 to 70°C(-4 to 158°F)
- Storage temperature: -40 to 80°C(-40 to 176°F)
- Relative humidity: 5% to 95%RH

Communication

Standard RS232 port
Digital I/O
Industrial RS485/CAN BUS (optional)

Operation instructions(user's choice)

Orientation pictogram



Status LED

Indicator LED

Operation interface (user's choice for expansion)

Available in the installation environment for card reader
Available in the installation environment for LED or LCD monitor
Available in the installation environment for other user control equipments

Installation

Single-phase power supply 3A 110 to 220V AC+ground(earth)
Connecting electrical wiring to the control equipments
Slab to be drilled on Structural Slab Level and dowelled on Finished Floor Level to secure in position
Please refer to ES3100 Installation Drawing

Remarks:

Security level 1: Provide basic anti-trailing system; relatively short equipment; basic level of single passage regulation in both directions;
Security level 2: Provide the best length and structure for anti-trailing identification system; basic level of single passage regulation in both directions and identification to child and trolley;
Security level 3: This equipment is equipped with mechanical device and sensors to identify bi-direction passage and prevent trailing.