Entrance Control

Elevating Speedgate Security: Scalable Solutions for Every Situation

A white paper exploring the options available to make your speedgate more secure dependent on the risk.

Maximising Speedgate Security Levels

Introduction

Speedgates are an essential feature in modern office buildings, particularly in corporate and government facilities. As the focus on ensuring the safety of people and assets grows, speedgates play a vital role in enhancing overall building security. Acting as the first line of defence, speedgates provide critical access control for both employees and visitors. By maximising lobby security, organisations can significantly reduce the risk of security breaches and foster a safer environment for all occupants.

However, customisation of speedgates often receives insufficient attention. Options are frequently selected based on aesthetics and barrier height, rather than a thorough understanding of a facility's specific risks. By assessing these risks, speedgates can be tailored to address and mitigate threats effectively.

Standard EasyGate SPT

The EasyGate SPT from Entrance Control is a leading example of a high-security speedgate that can be customised in a variety of ways. Options include:

- **Barrier Height**: Up to 1,800mm to deter climb-over attempts.
- **Minimal Gap**: Only a 230mm gap at the bottom of the glass to prevent crawl-under attempts.
- **Advanced Detection System**:
    - 36 high-resolution infrared (IR) sensors to detect tailgaters as close as 5mm apart.
    - Ability to differentiate between body mass and smaller objects.
    - Automatic lane closure when someone exits the IR matrix.
    - Monitoring of lane occupancy before closing the barrier, enhancing safety.
- **Premium Magnetic Drive Motor**:
    - Opens and closes the lane in under 0.5 seconds.
    - Efficiently moves heavy 1,800mm glass panels at DDA widths.
    - Features a 10,000,000 mean cycles between failures (MCBF) rate.
    - Operates quietly.
- **External Tooth Brake**: Locks the barrier securely in its home position.
- **Custom Security Levels**: Offers five safety/security settings to tailor the gate's security according to site requirements.

Available Customisations to Address Various Risks

A range of optional extras can be implemented to combat specific security challenges:

Climb Over Attempts

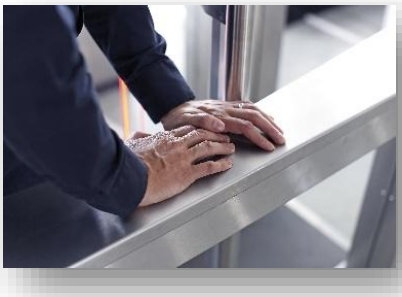
Barrier Height:

The EasyGate SPT barrier can be increased to 2,200mm in certain applications, supplemented by IR sensors above the barrier height or horizontal infill barriers to minimise climb-over risks.

Flag Design Barriers:

The glass barriers can be customised with a flag-shaped design that extends above the pedestal to enhance security when closed.

Pressure-sensing Tops:



Adding pressure-sensing tops to the pedestals can detect attempts to climb over the barriers. This intrusion detection integrates with the access-control system and can filter out false alarms from lightweight items like handbags.

Attack

Heavy-duty Wings:

The barriers can be reinforced with heavy-duty wings designed to withstand up to 1,050 newton metres of force for better intrusion resistance.

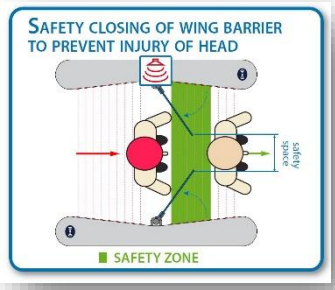
Push-through Feature:

The EasyGate SPT can be equipped with a directional push-through feature, which prevents unauthorised entry while allowing safe evacuation during emergencies. It can be programmed for various levels of force (4, 5, 6, 9 or 11 Nm) to facilitate this.

Glass Options: The standard gate includes toughened safety glass, with an optional laminated version available for additional protection against shattering.

Tailgating

Security Settings:



The EasyGate SPT features five defined security/safety settings that range from maximum safety to maximum security. These settings determine which IR sensors serve as safety sensors to keep barriers open if obstructed. To maintain safety, higher security settings can also configure the barriers to close at a 45-degree angle during an alarm event, thereby reducing the risk of trapping individuals.

EasyGate HS Interlock

EasyGate HS Interlock is based on the EasyGate SPT, but it features a 2nd barrier to further protect against tailgaters. The function of the EasyGate HS Interlock is that user scans at the first barrier, this opens and then the person approaches the closed 2nd barrier. The 1st barrier will only close behind them if the gate hasn't seen tailgater. Once the 1st barrier is closed the 2nd barrier opens to let the person in to the secure area. If the gate sees a tailgater it leaves the 1st barrier open to let people out back into the unsecure area. The EasyGate HS Interlock provides similar functionality to a security portal/door interlock but with much faster throughput

Integration With Access Control Systems

The EasyGate SPT can communicate alarm events to the access control system, enabling tailored responses based on the threat level. Standard alarms include:

- General Alarm
- Tailgating
- Crossover
- Climb-over (requires climb-detection tops)

Additional breach alarms and warnings can also be programmed, including:

- Jump-over
- Crawl-under
- Intrusion
- Timeout
- Various Obstruction Alarms

For more detailed definitions, please refer to the table below.

Standard Outputs		
	Output name	**Description**
	Busy	Lane in use
	ROT L	Confirmed entry *left* direction
	ROT R	Confirmed entry *right* direction
Alarm Event Outputs		
Package	**Output name**	**Description**
Standard Alarms	General Alarm	Entry into lane without card
	Tailgating	Unauthorised person following an authorised person
	Crossover	An unauthorised person tries to go in the opposite direction to an authorised person
	Pressure Sensor	The pressure sensor is an optional extra to detect someone climbing on top of the cabinet*
Breach Alarms *	Jump Over	Triggered by breaking IR sensors in the top row whilst trying to jump over the barriers
	Crawl Under	Triggered by breaking IR sensors in the bottom row whilst trying to slide under the closed barrier
	Intrusion	Pushing on the barriers to try to gain entry
Warning Alarms *	Timeout	A person scans their card but does not enter
	Object in passage sector	A person enters the lane without presenting a card (2 outputs one for entry side and one for exit side)
	Object left in passage sensors	An obstruction alarm

*** extra package to be ordered if required**