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PRODUCT CATALOG
2026 EDITION

PEDESTRIAN ACCESS CONTROL

Swing & Flap Barriers
with Face Recognition

Multi-lane, bi-directional speed gates in SUS 304 stainless steel, paired with a face + fingerprint + card reader on a stainless steel pole. Supplied, installed and maintained by SIE.



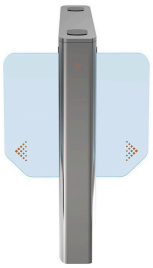
50/min
SWING PASS RATE

<0.35 s
FACE VERIFY

SUS 304
STAINLESS BODY



SWING BARRIER



CENTRE UNIT



FLAP BARRIER



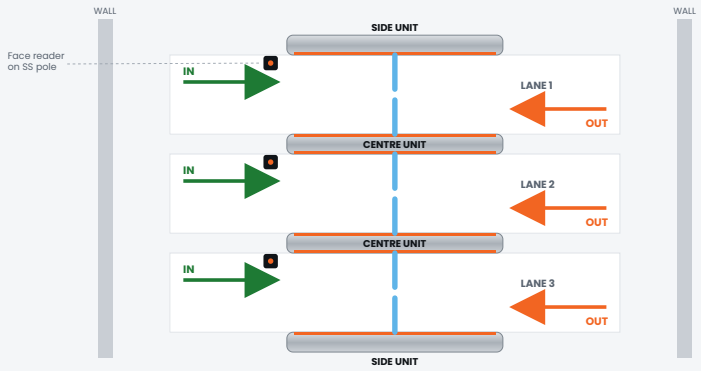
FACE READER + POLE

1 to 4+ lanes • **Bi-directional** • **Face / Finger / Card** • **Fire-safe** free exit on power cut • **Installed** by SIE

SIDE UNITS AT THE WALLS · CENTRE UNITS BETWEEN LANES — Add a lane by adding one centre unit

1.1 Typical 3-Lane Layout

top view, not to scale



1.2 Lane Configuration Guide

overall width of the barrier line

LANES	SIDE UNITS	CENTRE UNITS	SWING · 900 mm LANES	FLAP · 550 mm LANES
1 lane	2	–	1,220 mm · 4.0 ft	1,110 mm · 3.6 ft
2 lanes	2	1	2,280 mm · 7.5 ft	1,940 mm · 6.4 ft
3 lanes	2	2	3,340 mm · 11.0 ft	2,770 mm · 9.1 ft
4 lanes	2	3	4,400 mm · 14.4 ft	3,600 mm · 11.8 ft

Swing lanes can be set anywhere from 600 to 900 mm. Example: a **12 ft (3,658 mm)** opening takes 3 swing lanes or 4 flap lanes. Send us the opening width and we will plan the lanes.

1.3 How a Passage Works

1 — Identify
Person presents face, finger or card at the reader on the pole.

2 — Verify
Reader verifies in under 0.35 s and sends the open signal by dry contact or Wiegand.

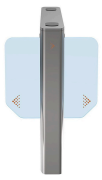
3 — Open & Guide
Brushless drive opens the wing in 0.5–1.5 s; three-colour LEDs show the lane is free.

4 — Pass & Reset
Infrared sensors track the person through, then the wing closes; the log is pushed to software.

1.4 System Components



SIE-SW21S / FL31S
Side Unit
Single wing, 2 per installation.



SIE-SW21C / FL31C
Centre Unit
Dual wing, 1 per extra lane.



SIE-FX5
Face Reader
Face + fingerprint + card + PIN.



SIE-PL12
SS Reader Pole
Concealed cabling, floor fixed.

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02

GLASS SPEED GATE

Swing Barrier

SIE-SW21S side unit · **SIE-SW21C** centre unit. Brushed SUS 304 cabinets with clear acrylic wings and a brushless swing drive with integrated brake — built for lobbies, offices and residential towers.

50/min
PASS RATE (OPEN)

600–900
PASS WIDTH MM

0.5–1.5 s
OPEN / CLOSE



2.1 Technical Specification

PARAMETER	SIE-SW21S · SIDE UNIT	SIE-SW21C · CENTRE UNIT
Housing	SUS 304 brushed — top cover 1.2 mm, body 0.9 mm	
Size (L × W × H)	1400 × 160 × 980 mm	
Wing	Single wing, 8 mm clear acrylic	Dual wing (one per lane), 10 mm clear acrylic baffle
Pass width	600 – 900 mm per lane	
Drive	DC brushless motor (30 W) with integrated swing brake	
Pass rate	50 persons/min (normally open) · 35 persons/min (normally closed)	
Open / close speed	Adjustable, 0.5 – 1.5 s	
Sensors & indication	6 pairs infrared sensors · three-colour light panel + light strip	
Power	AC 100–240 V, 50/60 Hz · 24 V 150 W supply · 55 W working	
Interface	Dry contact input (works with face, card, QR or fingerprint readers)	
Environment	-20 to +70°C · ≤90% RH non-condensing · ≤65 dB · IP4X (indoor / covered)	

ONE CENTRE UNIT SERVES TWO LANES — Add lanes by adding centre units

SIE-SW21C · CENTRE



2.2 Why the Swing Barrier

Wide, welcoming lanes

- 600–900 mm pass width takes wheelchairs, trolleys and luggage.
- Clear acrylic wings keep the lobby looking open.

Safe for people

- 6 sensor pairs detect the person and stop the wing from closing on them.
- Brake-integrated brushless drive: smooth, quiet (≤65 dB), low wear.

Clear guidance

- Three-colour light panel and LED strip show go / stop / alarm.
- Normally-open or normally-closed lane modes.

Works with any reader

- Dry-contact input for SIE face readers, RFID card, QR or fingerprint.

2.3 Premium Black Finish on request

MULTI-LANE · BLACK



For hotels, corporate lobbies and premium towers, the same swing mechanism is available in a **black cabinet with orange LED accents**. Lanes are built up side + centre + centre + side to any width.

2 lanes
3 CABINETS

3 lanes
4 CABINETS

03

HIGH-TRAFFIC ENTRANCE

Flap Barrier

SIE-FL31S side unit · **SIE-FL31C** centre unit. Retracting flaps on a DC brushless drive for fast, controlled one-at-a-time passage — rated for 5 million cycles.

5 M
MCBF CYCLES

IP56
PROTECTION

550 mm
PASS WIDTH



3.1 Technical Specification

PARAMETER	SIE-FL31S · SIDE UNIT	SIE-FL31C · CENTRE UNIT
Housing	SUS 304 stainless steel, 1.2 / 1.0 mm	
Size (L × W × H)	1200 × 280 × 980 mm	
Flap	Single flap	Dual flap (one per lane)
Pass width	550 mm per lane	
Drive	DC brushless motor	
Pass rate	35 persons/min	
Sensors	3 pairs infrared, with anti-clip protection	
Power	AC 100–240 V · 24 V 150 W supply	
Reliability	MCBF 5 million cycles · net weight approx. 45 kg per unit	
Environment	-20 to +70°C · IP56	
Readers	IC / ID card, QR scanner, fingerprint and face recognition	

ANTI-TAILGATING · FIRE-SAFE · AUTO RESET — One valid ID, one person through



3.2 Built-in Protection

Anti-tailgating
Detects a second person following on one valid ID and raises an alarm.

Anti-reverse
Blocks entry from the wrong direction in one-way mode.

Fire-safe exit
Flaps open automatically on power failure to keep the escape route clear.

Auto reset
If nobody passes within the set time, the lane locks again by itself.

3.3 Swing or Flap? choosing for your site

FACTOR	SWING · SIE-SW21 SERIES	FLAP · SIE-FL31 SERIES
Pass width	600 – 900 mm	550 mm
Pass rate	Up to 50 persons/min	35 persons/min
Wheelchair / luggage	**Yes, wide lane**	Standard lane
Look	Clear glass, open lobby feel	Solid cabinet, compact flaps
Protection	IP4X · indoor / covered	**IP56 · covered outdoor**
Best for	Residential towers, offices, hotels, clubs	Factories, metro-style entries, high-volume staff gates

04

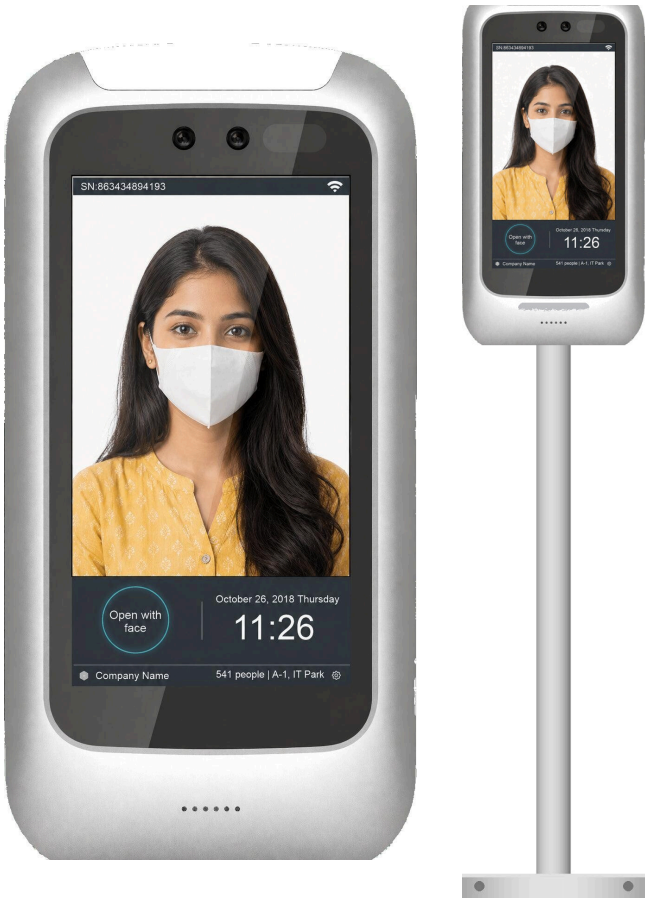
FACE RECOGNITION

Face Reader

SIE-FX5 — face, fingerprint, card and PIN in one terminal, with a 2 MP binocular camera for live-face detection. Mounted on the **SIE-PL12** stainless steel pole beside each lane.

<0.35 s
FACE VERIFY

3,000
FACES / FINGERS / CARDS



4.1 SIE-FX5 Specification

PARAMETER	SPECIFICATION	PARAMETER	SPECIFICATION
Verification	Face / fingerprint / card / PIN	**Camera**	2 MP binocular (live face)
Capacity	3,000 faces · 3,000 fingers · 3,000 cards	**Logs**	2,00,000 transactions
Speed	Face < 0.35 s · finger < 0.5 s	**Accuracy**	Face FAR ≤ 0.01%
Platform	Linux, dual-core 1 GHz, 1 GB / 8 GB	**Network**	TCP/IP, Wi-Fi, USB, push data
Access output	Wiegand in/out, RS485, lock relay	**Power**	DC 12 V 3 A
Size	183 × 88 × 20.5 mm	**Operating**	-5 to +45°C, 10–90% RH

SIE-PL12 · SS Reader Pole

- Stainless steel pole with floor base plate and reader bracket.
- Cable concealed inside the pole — no loose wiring at the lane.
- Fixed at the lane mouth, angled for a natural face position.

Attendance + Access in one

- Same reader opens the barrier and records attendance.
- Push data to attendance / visitor software over LAN or Wi-Fi.
- Face masks and visitors handled with card or PIN fallback.

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Supplied, installed and maintained by SIE.

Every barrier set is installed and commissioned by our own team — cabinets fixed and levelled, readers enrolled and wired to the drive, and staff trained on the lane modes.

SIE SCOPE

Supply of barriers, readers and poles
Installation & commissioning
Reader enrolment & lane testing
1-year warranty & service support

CLIENT SCOPE

Civil work & floor core cutting
Conduit between cabinets & poles
230 V power point at the lane
LAN point for reader data

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