

# Gunnebo Metro Bi-Parting Gate

Retractable Gate for Public Transport Applications

## Metro Bi-Parting Gate

The Metro Bi-Parting Gate offers **high speed passenger flow** through the use of flaps which retract into the cabinet when the passenger's ticket is authorised.

This type of gate offers unobstructive visibility for passengers and is silent and smooth in operation.

The Gunnebo Metro Bi-Parting Gate is designed with a compact stainless steel cabinet construction with special semi-rigid non-deforming impact absorbing flap panels and the option between **retractable single or telescopic flap panels**.

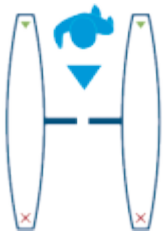
## Technical Specifications

### Mode of Operation

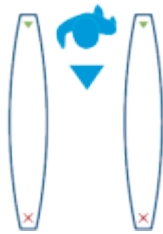
Controllable via interface connection to AFC control system. On receiving a signal from the AFC control system, or remote control, the flap leaves open (Normally Closed NC). If an unauthorised person tries to tailgate or attempts to enter from the opposite direction, the internal alarm system is activated. If within the pre-set timeout no passage has occurred, the flaps will close and reset. Normally Open N/O provides an open walkway in home position and will only close at unauthorised entry or tailgating attempts.

- Uni-directional with single person detection
- Bi-directional with single person detection
- Emergency, configurable to fully open or block the passageway
- Remote passage control
- Traffic way switchable during rush hours
- Passenger stacking (up to 8 stacked transactions)

### Normally Closed



### Normally Open



550mm	•	•	•	•	•	•	•	•	•	•	•	•
900mm	•	•	•	•	•	•	•	•	•	•	•	•

Plain dot indicates the functionality is implemented, empty dot indicates some limitations, no dot indicates not available.

## Features

- Compact stainless steel cabinet construction
- Single passage detection
- Telescopic flap for wide lanes
- Special semi-rigid non-deforming impact absorbing flap panels
- Retractable single or telescopic flap panels
- MCBF: 12M cycles

## Benefits

- High passenger throughput - 60 passages per minute
- High prevention against tailgating
- Unobtrusive visibility for passengers

## Applications

- Mass Transit Systems
- Metro
- Railway
- High Speed Railway
- BRT
- Tramway
- Ferry Terminals

## Global Experience

- Global No. 1 for Entrance Control Equipment (IMS Research Report 2013)
- More than 50,000 gates installed worldwide
- More than 90 Million people processed daily
- Over 25 years global experience within the Mass Transit market sector
- International and local support infrastructure
- High productivity and quality levels
- Reduced project risks and long-term investment protection

## Technical Specifications (continued)

### Security Features

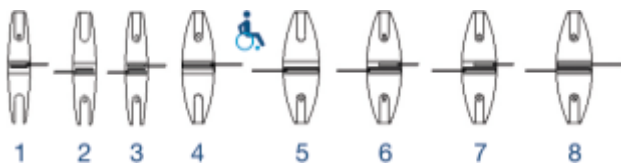
- High-Performance Fraud Detection through sophisticated and proven algorithm
- Strategically concealed TX and RX infrared photocell arrays
- More than 40 different passage scenarios handled
- Intrusion
- Tailgating
- Piggybacking
- Wrong way direction
- Leave aisle timeout
- Anti-crawling flap leaf barrier
- Passenger with hand carried luggage
- Passenger with wheeled trolley luggage

### Safety Features

- Safety force sensing
- Accurate presence sensing
- Emitter/receiver infrared sensors technology monitoring the area immediately around the moving flaps
- Logic voltage 24 VAC
- Voltage free contact input for Fire Alarm fail state
- Moving panels constructed from semi-rigid polyurethane mounted on to a steel core to limit potential damage to passenger
- Dynamic impact force compliant with EN 60335-2-103
- Anti-panic breakthrough force limited to a max 325N
- Finger entrapment complies to EN 60335-2-103
- Wide walkway for wheel chair or easier access
- Accompanied wheelchair or child passage management

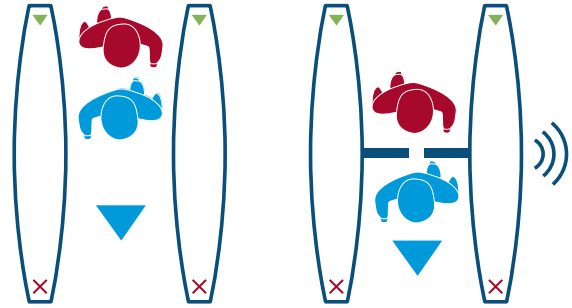
### Design Construction

- Standard passage width (550mm) and Wide passage width (900mm) available.
- Available also as Combi - centre cabinet with narrow (550mm) passage on one side and wide (900mm) passage width on the other side.

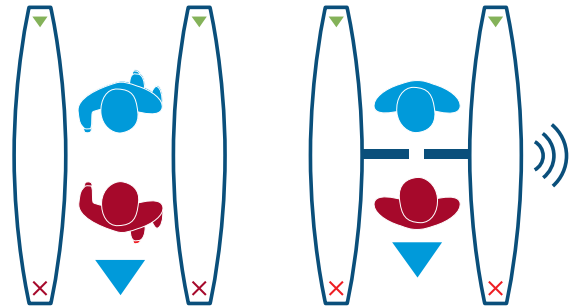


## Single Person Detection

### Tailgating / Piggybacking Attempt



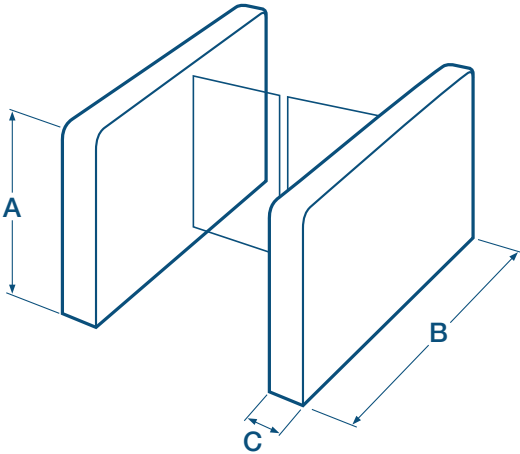
### Wrong Way Detection / Intrusion Attempt



## Technical Specifications (continued)

### Dimensions

- Height (A): 1072 mm
- Length (B): 1930 mm
- Central Max Width (C): 300 mm
- 200 mm width cabinet option available
- Rectangular or tapered footprints available



### Materials

- Casework: 2mm ASIS 304-grade grained stainless steel
- Finish: Scotch Brite 4

### Moving Panels

- Metal core coated with energy absorbent integral polyurethane
- HCFC Free
- Flammability according to ISO 8191-1 and 2
- Burning Behaviour: propagation rate: > 100 mm/min (ISO 3795)
- UV Resistance: behaviour to UVA light: > 5 Blue scale, UVA exposure: 150h at a temperature of 50°C (ASTM G53-84)
- Abrasion Resistance: 1000 turns according to ISO 12947-2
- Hardness: 37+-5 Shore A Short cabinet length (N/C) or Long cabinet length (N/C) version

### Gate End Displays

- For guiding passengers there are light indicators integrated into each end leg of the housing (Red Cross and Green Arrow)
- Remotely switchable to conform to the flow of gates at peak times or to close the complete system

### Maintenance Access

- Access to ticket controller and gate management system via slide out end panels mounted on heavy duty guide rails
- Servicing does not impinge on adjacent passageways
- Minimal removal parts to reduce mechanical failure and longevity or wear during servicing.

## Technical Specifications (continued)

### Power Failure Management

- The moving panels can be configured to automatically fail open or remain closed dependent upon if failsafe mechanism is chosen
- Upon restoration of power the gate will recycle the panels to the closed position and become available for use once the AFC system is rebooted

### Vandalism

- Construction from 2 mm stainless steel
- Moving panels resistant to lateral 800N impact force without the loss of functionality

## Technical Data

Properties	Values / Description
Power Supply	230 VAC 50Hz or 115 VAC 60Hz
Power Rating	Standby mode: 50 VA; In Operation: 220 VA
Fire Signal	Input for voltage free contact
Operating Temperature	0 to + 45°C (RH 95% not condensing); -20°C with heating system (optional)
Reliability Figures	Robust design to withstand high volumes in peak hours Guaranteed long-term investment protection and profitability Low running costs:<0.5%/pa of installation base (Based upon actual 12 month field survey data)
MCBF	12,000,000 cycles
MTTR	<30 min
IP Rating	IP 43
Flow Rates	Up to 60 passengers/minute throughput (Dependent upon reading technology and response times) Authorisation stacking up to 8 authorisations

## Customer References

More than 25,000 MBP units installed worldwide over the past 10 years:

- Melbourne TTA, Australia
- Transperth, Perth, Australia
- Montreal STM, Canada
- Beijing Changping, China
- Beijing Daxing, China
- Beijing Fangshan, China
- Beijing L1, 2, 5, 8, 9, 10, China
- Beijing Yizhuang, China
- Chengdu L1, L3, L8 China
- Hangzhou L1, China
- Nanjing L1, L2 China
- Shanghai L2, L7, L9, L10, China
- Shanghai L11, L13, China
- Shenyang L1, L2, China
- Shenzhen, L1, L2, L5, China
- Suzhou, China
- Taipei HLL, China
- Tianjin L2, L3, China
- Zengzhou BRT, China
- KCRC West and East Rail, Hong Kong
- MTRC, Hong Kong
- Chennai Metro, India
- New Delhi Metro, India
- LTA Singapore, Marina Line, Singapore
- Taipei Metro, Taiwan
- Taiwan HSRC, Taiwan
- Bangkok Metro, Thailand
- Dubai Palm Monorail, UAE

# Gunnebo Metro Bi-Parting Gate



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