



## VIX SMART GATES



Vix Smart Gates delivers a paradigm shift in passenger validation and fast transit. The digital-first EMV-enabled gates operate in conjunction with advanced configuration and a modern design to provide a unique automatic ticket gate for transit agencies and operators.

### Overview

With a standard 600mm aisle for fast transit and a 900mm aisle width accommodating passengers with reduced mobility, Vix smart gates cater to different passengers, whilst still optimising the gates' speed of use.

#### Durable Construction

Vix Smart Gates 304 stainless steel construction cabinet offers security, durability and optimal appearance in the station. Operators can be confident the gate will be safe, last and be attractive to passengers.

#### Enhanced Fraud Prevention

Equipped with 24 infrared sensors, Vix Smart Gates detects different misuse scenarios including tailgating, intrusion, wrong-way and crawl-under. This alerts passengers and operators immediately in the event of gate misuse, ensuring revenues are maximised and unnecessary administration costs are reduced.

#### Effortless Maintenance

Removable covers allowing fast and easy maintenance to the mechanism, and gate controller with full access to service the automated fare collection components.

#### Seamless Integration

With a design allowing the gate to be deployed onto existing gate footprints, the gates use existing mounting and cable access points so that an operator upgrading from existing gate installations can do this quickly and easily, with minimal civils.

#### Transparent Visibility

10mm clear safety glass allows operators full visibility of gate operations, deterring fraud attempts and facilitating prompt issue identification.

#### User-Friendly Features

With an integrated Vix Assure validator with an LED ring and passenger display screens, offers passengers clear information on their ticket/journey. RGB LED gate end displays show lane availability, reducing congestion and queues.



### Key features

- Wide and Narrow Variants
- Secure and Durable
- Built-In Alarms to Prevent Gate Misuse
- Easy to Maintain
- Fast Installation
- Safe and Secure
- Optimal Passenger Information

### About Vix

Vix Technology is the global leader in intelligent transportation systems, automated fare collection, and transit analytics.

With customers in 200 cities around the world, Vix embraces the complexities of modern public transit to create best-in-class solutions for transit agencies and operators.

Vix is passionate about connecting people and communities, combining an open, collaborative mindset with cutting-edge technology to make public transport more accessible and more cost effective for all.

<b>Gate Management (via Vix Cast)</b>	<ul style="list-style-type: none"> <li>• Remote configuration of the gate including gate mode scheduling</li> <li>• Remote control of Gate including mode change and granting single passage</li> <li>• Remote monitoring including multiple parameters</li> <li>• Gate reporting is available including Gate Status and Ticket Usage reports</li> </ul>
<b>Passage Management</b>	<ul style="list-style-type: none"> <li>• Passenger presence sensing is achieved with 24 infrared sensors in the gate passageway</li> <li>• Passage control based on validation outcome</li> <li>• Wide (900mm) and narrow (600mm) aisle variants are available</li> </ul>
<b>Mechanism</b>	<ul style="list-style-type: none"> <li>• Brushless DC motor connected to an absolute angular sensor.</li> <li>• The microprocessor control system guarantees precise movement and positioning of the paddles.</li> <li>• Safety sensors and over-current protection prevent the doors from closing on an obstruction.</li> <li>• Paddle opening force and open shut/speed are configurable to optimise passenger safety</li> </ul>
<b>Fraud Prevention</b>	<ul style="list-style-type: none"> <li>• The gate's controlling logic automatically detects abnormal conditions and activates a series of operations aimed at preventing fraud including the activation of alarms and warning lights</li> <li>• The gate is capable of detecting multiple fraud types including passback, wrong-way, crawl under, tailgating and attempting to force the paddles open</li> </ul>
<b>Operation Method</b>	<ul style="list-style-type: none"> <li>• On receipt of an approved token being presented to the Vix validator, the panels will open to allow passage.</li> <li>• If an unauthorised person attempts to tailgate, jump over, crawl under or to force the paddles open, the gate detects and closes the unauthorised passage and activates an alarm.</li> </ul>
<b>NFC</b>	<ul style="list-style-type: none"> <li>• ISO 14443 Types A &amp; B Contactless Tokens</li> <li>• ISO 18092 NFC Mobile Devices</li> <li>• Contactless EMV Level 1 &amp; Level 2 Cards &amp; Devices</li> <li>• Mastercard / Visa / American Express / Discover</li> <li>• ITSO certified</li> </ul>
<b>Barcode</b>	<ul style="list-style-type: none"> <li>• Read Linear: EAN, UPC, Code 2 of 5, Interleaved 2 of 5, IATA 2 of 5, Code 39, Code 128</li> <li>• 2D: PDF417, Aztec, DataMatrix and QR codes</li> <li>• Media types read: Smartphone/tablet/smartwatch displays &amp; paper tickets</li> </ul>
<b>Paper Ticket</b>	<ul style="list-style-type: none"> <li>• UK Rail CCST (Magstripe) tickets</li> </ul>
<b>Customer Display</b>	<ul style="list-style-type: none"> <li>• Two-sided passenger 7" display screens</li> <li>• Screens displayed are configurable depending on customer requirements</li> </ul>
<b>Standards and Compliance</b>	<ul style="list-style-type: none"> <li>• RISQS (Railway Industry Supplier Qualification Scheme) certified</li> <li>• Vix Validators are Level 1 and Level 2 EMV certified</li> <li>• Vix Validators and Cast are ITSO Certified</li> <li>• PCI-PTS 6.x Compliant</li> <li>• Secure Reader Element</li> <li>• ISO 7816 Compliant SAM Slots</li> </ul>