PLATFORM SCREEN DOORS

We care for your safety

masats

PLATFORM ACCESSIBILITY SYSTEM

A COMPREHENSIVE SOLUTION FOR FULL-HEIGHT PLATFORM SCREEN BARRIER.

CHARACTERISTICS

The MASATS´ Platform Accessibility System is a set of screen doors (PSD) employed in Mass Trasit Systems such as metros. It consists of a barrier that it is installed at the edge of the platform and it is synchronized with the on-board doors of the train.

Subway

Outdoor train

MODULARITY

MASATS offers a modular and customized PSD design capable to adapt to the customer's needs. Several modules can be selected to form an Assembly Unit. This unit can be pre-assembled at factory and installed directly on the platform. The system's flexibility provides many alternatives making the design and installation tasks easier.

SAFETY AND RELIABILITY

Safety and reliability are the key objectives of Masats PSD system. It is designed to comply with **SIL2, SIL3 or SIL4** safety levels while maintaining the highest requirements for availability and reliability (RAMS) in accordance with **EN50128** and **EN50129** standards.

DESIGN

The unique and elegant vanguardist design provides a functional facade that can be adapted and customized to the end user needs. Once installed, the PSD facade can accommodate several utilities such as advertising signs, CCTV circuit, First-Aid kits and much more.

TECHNOLOGICAL DEVELOPMENT

The door mechanism is made of a robust leadscrew in combination with an enhanced locking device that maintains the doors locked when closed. Heavy-duty ball cage guides are used to support the door leafs. Power is provided by a brushless motor making the door operation more efficient while reducing the maintenance tasks. Door "LOCKED" and door "CLOSED" positions are detected by dedicated SIL3 switches.

CONTROL SYSTEM

SAFETY LOOP

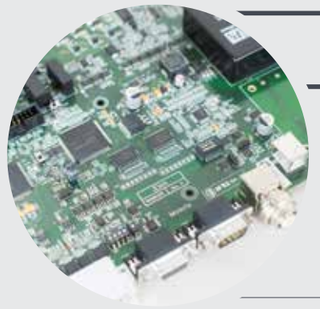
SET OF SAFETY SWITCHES FORMING THE “SAFETY LOOP” NETWORK. 3 DIFFERENT CONFIGURATIONS: SIL2 / SIL3 / SIL4

PLATFORM SCREEN CONTROL PANEL

OPERATION PANEL LOCATED AT THE END OF EACH PLATFORM. IT ALLOWS MANUAL CONTROL OF ALL THE SCREEN DOORS IN THE PLATFORM WHILE PROVIDING STATUS INFORMATION FOR EACH PSD MODULE AND ITS SUB-SYSTEMS.

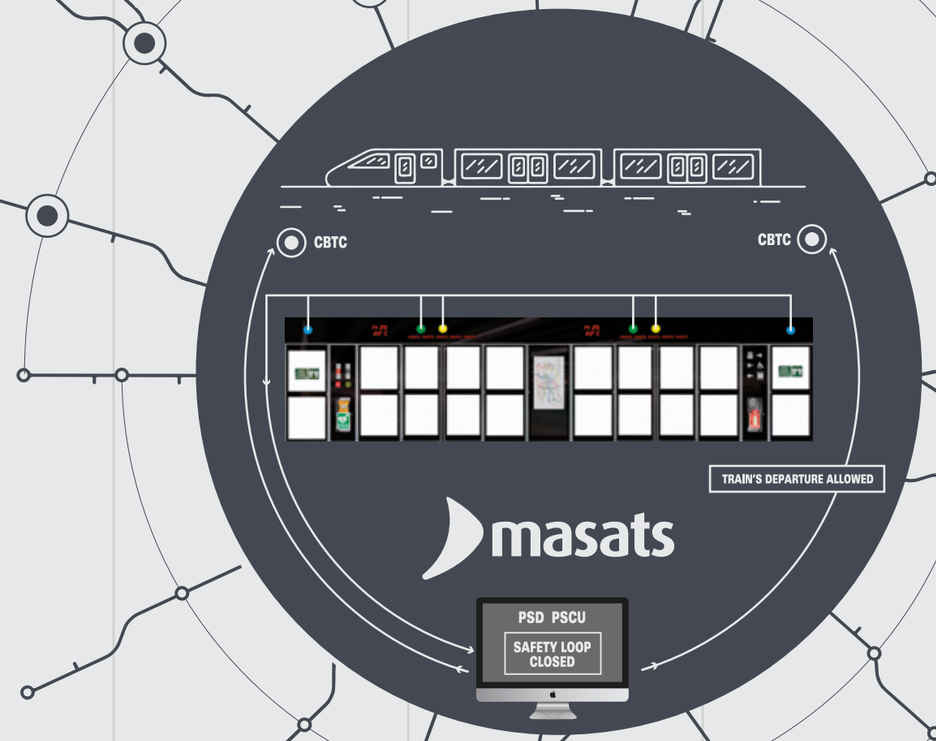
INTRUSION DETECTION SYSTEM

SIL2 SAFETY MONITORING SYSTEM THAT DETECTS THE PRESENCE OF PERSONS OR OBJECTS IN THE AREA BETWEEN THE TRAIN AND THE PLATFORM SCREEN DOORS.



PLATFORM DEVICE CONTROL UNIT PDCU

DOOR CONTROL UNIT CAPABLE OF MANAGING 2 INDEPENDENT MOTOR OPERATIONS SIMULTANEOUSLY. SUITABLE FOR “BRUSHED” AND “BRUSHLESS” MOTORS. COMPLIES WITH EN50155 - SIL2 REQUIREMENTS.



SAFETY INTERFACE SYSTEM

INTERFACE GATEWAY BETWEEN THE PSD SIGNALS AND THE RAILWAY SIGNALING SYSTEM.

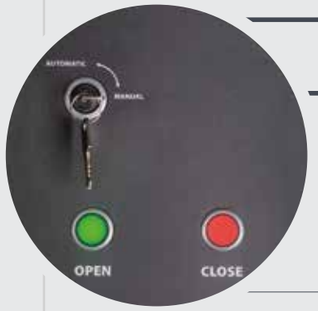
SAFETY MOTION SYSTEM

SAFETY

SAFETY SYSTEM THAT PREVENTS ACCIDENTAL/UNAUTHORIZED DOOR OPENING. PROJECTED SAFETY LEVEL: SIL4

PLATFORM SCREEN CONTROL UNIT

PROCESS UNIT (PLC) THAT GOVERNS THE OPENING AND CLOSING OPERATIONS OF THE PSD FOLLOWING A LOGICAL SEQUENCE.



PLATFORM DEVICE CONTROL PANEL

OPERATION PANEL LOCATED INSIDE EACH PSD MODULE. IT IS USED FOR LOCAL DOOR OPERATION. PROVISIONS ARE MADE TO PERMIT ACCESS TO AUTHORIZED PERSONNEL ONLY.

DESIGNED TO BE VERSATILE

THE PSD FACADE IS SUITABLE AND READY TO ACCOMMODATE SEVERAL AUXILIARY SYSTEMS AND UTILITIES.

1 CUSTOM MADE

a OVERALL DIMENSIONS + b NEEDS + c SELECT CONFIGURATION

users train platform

2 BASIC AND ESSENTIAL

Fixed glass module

Emergency door

Sliding door

PSCP Module- Platform Screen control panel

3 SYSTEMS INTEGRATOR

Digital Information System

Advertising panel

First-aid module

Emergency module

Waste bin module

Emergency module

CCTV System

Passenger Information System

4 THE INSTALLATION

EASY

FAST

FLEXIBLE

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