

CBTC Signalling System

# São Paulo Metro

ACS2000 with IMC and RSR180

## Country

Brasil

## Segment

Urban & Mass Transit

## Application

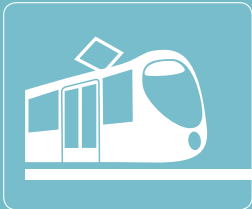
Train detection

## Project start

2009



CASE STUDY | EN



## Requirement

The São Paulo Metro (Portuguese: Metrô de São Paulo, commonly called Metrô) is the main rapid-transit system in the city of São Paulo and the largest in Brazil. It is also the second largest system in South America and the third largest in Latin America. The Metro has a length of 74.3 kilometres, distributed into Line 1 (Blue), Line 2 (Green), Line 3 (Red), Line 4 (Yellow) and Line 5 (Lilac) with total 64 stations. The metro system carries 4,000,000 passengers a day.

## Solution

Proven and reliable axle counting systems, which were integrated on full assembled cubicles, built the basis for the modernization of the existing CBTC system. The Frauscher axle counting system ACS2000 with IMC010 and the Frauscher wheel sensor RSR180 perfectly fits the requirement of São Paulo Metro.

## Benefit

Frauscher provides reliability, availability and safety to the CBTC train control system of São Paulo Metro.

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## Project details

Frauscher supplies the axle counting system ACS2000 with IMC010 and ACB119. The components will be installed by Frauscher in prewired and full configured cubicles. All interfaces (wheel sensors, clear/occupied, reset, pre-reset are already available on terminals. This allows easy setup up and installation of the system at site in Sao Paulo by Alstom.

The wheel sensor RSR180 with rail claw is used as counting head. For this combination there is no need of drilling holes into the rail and it allows the installation of the wheel sensor also on slab track where only limited space below the rail is available.



<b>Operator</b>	Metropolitano de São Paulo
<b>Client</b>	Alstom Transport
<b>Scope of Supply</b>	Components
<b>Scope of Project</b>	881 track sections, 1030 counting heads
<b>Axle Counting System</b>	ACS2000 with IMC010 and ACB11
<b>Wheel Sensor</b>	RSR180