Prvni Signalni developing and supplies Signalling Technology for Railways, Tram & Metro

Since day one, Prvni Signalni has always set trends. It designs and deploys cutting-edge technologies to meet infrastructure managers’ needs. The company’s innovative nature has been confirmed countless times, such as developing the very first all-electronic interlocking in the Central and Eastern Europe.

Permanent Quality

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Prvni Signalní’s customers are railway infrastructure managers, from both Passengers & Freight Railways, as well as large signalling companies for which it delivers subsystems or develop safety software or the whole products.

Prvni Signalní makes a point of constant innovation, best quality, superior customer support and outstanding service for its products and systems. Meanwhile Prvni Signalní components, systems or complete transportation solutions are successfully in many countries on 3 different continents.

**Certificates**

**Business Segments**

- ROAD TRANSPORTATION
- PUBLIC RAILWAYS
- INDUSTRIAL RAILWAY
- MINES
- METRO
- TRAMS
- CONTROL SYSTEMS
Prvni Signalni **Key success factors**

- INNOVATIVE APPROACH
- ADVANCED TECHNOLOGY
- COMPLIANCE WITH THE NEWEST SAFETY STANDARDS AND TRENDS
- HIGHLY QUALIFIED AND PERIODICALLY TRAINED TEAM
- STRONG PROJECT MANAGEMENT COMPETENCIES
- FULL SYSTEM INTEGRATION CAPABILITIES
- INTERNATIONAL MARKETING

**Complete solutions**

Prvni Signalni plans, designs, manufactures, installs and commissions signalling components, systems and integrated solutions for the management and control of new and upgraded Railway and Freight lines, Industrial and Mine sidings.
At present, more than 80 employees work for Prvni Signalni, most of them with university education and almost all of them with technical background.

It has its own research and development teams which makes it possible to create state-of-the-art products and be flexible when responding to new technical trends and customer needs. For decades Prvni Signalni has been cooperating with leading domestic and foreign technical universities and research institutes.
Prvni Signalni has a proven history record in the development of full range of signalling solutions and components:

- **1975** - Origin – Control systems development
- **1985** - Start of interlocking development
- **1992** - First computer-based interlocking MODEST
- **1994** - Formal programming language A++ for safety systems
- **1996** - High-availability redundant system 2oo3
- **1998** - Fully-electronic interlocking MODEST-PES (EI SIL4)
- **2000** - Hump yard automation MARSHAL (SIL3)
- **2005** - Safety PLC NEXUS - unified safety platform (SIL4)
- **2010** - Local switch control SmartSwitch (SIL4)
- **2011** - The newest gen MODEST-GEMINI (SIL4)
- **2012** - Level Crossing
- **2013** - Barrier Drive BARRID
- **2014** - Line Block
- **2015** - Tram Controllers
- **2016** - Axle counter
Products

RAILWAYS

- Station Interlocking
- Regional Line Interlocking
- Local Point-setting system
- Line Block

GEMINI
TAU
SmartSwitch
VENTO

- Level Crossing
- Hydraulic Barrier Drive

LEXIS
BARID

- Hump Yard Automation
- Speed Controller for Retarders

MARSHAL
BrakeMaster
Products

TRAMS

» Tram Switch Machine Controller
» Safe operation of single-track tram lines
» Tram Depot Interlocking

SwitchMaster
LineMaster
TRIDENT

» Section Disconnector Controller
» Catenary Zero high-voltage Detector
» Tram Data Radio Communicator

SEDICO
ZEROX
DARAC
Products

**METRO**
- Subway Depot Interlocking **TRINITY**

**COMPONENTS**
- Universal programmable controller **REX**
- Safety PLC **NEXUS**
- Axle Counter **MAXIM**
- Road flashing lights **EDGE**
As an expert in Railway, Freight, Tram and Metro signalling and turnkey projects, Prvni Signalni manages all phases of the project, from the design to the manufacturing and installation, testing, commissioning and maintenance.
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