

MIREL VZ1 automatic train protection expansion module

Type **STB**

Illustrative image

The MIREL STB module is a customizable expansion module for the MIREL VZ1 automatic train protection system. It serves as an intelligent interface between the automatic train protection system's central unit and the European Vital Computer (EVC) of the European Train Control System (ETCS). Other equipment can be connected to the module including the TU control system. All equipment communicates via an RS485 link using BMSP internal protocol. MIREL STB communicates with EVC via 12 binary inputs and 6 outputs or via the serial port. Circuits connected to the EVC are then intrinsically separated from the other module circuits and are externally supplied. Other circuits are supplied from the central VZ1 unit. The task of the MIREL STB module is to accept orders from the EVC, to securely verify their trustworthiness and to safely send these orders on to the central unit. The MIREL STB module also sends feedback information about the current status of the MIREL VZ1 automatic train protection system to the EVC.



Dimensions - W x H x D: 105 mm x 105 mm x 228 mm

Supply voltage: 24 VDC

Modifications:

Designation	Nominal supply voltage [VDC]	Installed software	Serial port	Installation	ARMBBL mount	BOXTUG modification	Weight [kg]
STB.1.203AL	24	03	No	1068M / left	No	17A	1.52
STB.1.203AP	24	03	No	1068M / right	No	17A	1.52
STB.1.203ALN	24	03	No	1068M / left	ARMBBL.0.2	17A	2.08
STB.1.203APN	24	03	No	1068M / right	ARMBBL.0.2	17A	2.08
STB.1.203CL	24	03	MVB	1068M / left	No	17A	1.52
STB.1.203CP	24	03	MVB	1068M / right	No	17A	1.52
STB.1.203CLN	24	03	MVB	1068M / left	ARMBBL.0.2	17A	2.08
STB.1.203CPN	24	03	MVB	1068M / right	ARMBBL.0.2	17A	2.08

Specification:

Number	Version	Name
257VZ1	070525	Technical conditions for MIREL VZ1 automatic train protection – serial installation
1068M	100126	BOXTUG Installation conditions

Use:

MIREL VZ1 – Automatic train protection