

# Evaluation and Control Unit of MIREL SHP System

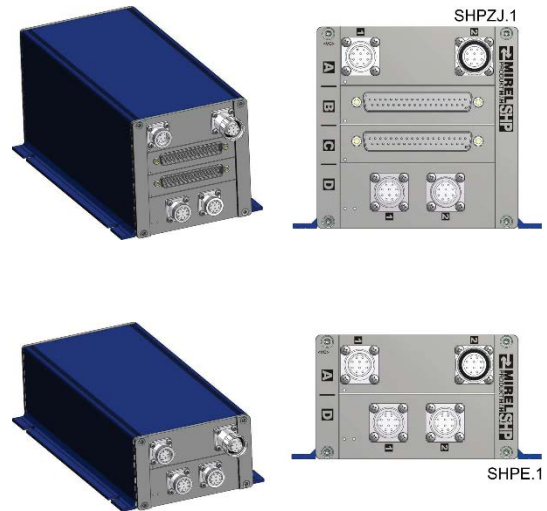
## Type SHPZJ, SHPE

Illustrative pictures

The basic unit SHPZJ and evaluation and control unit MIREL SHPE are devices to secure the vehicle on the Polish track infrastructure.

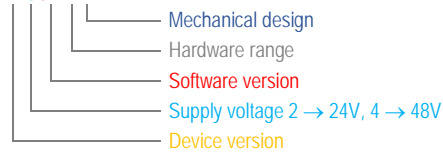
The evaluation and control unit MIREL SHPE performs the function of excitation of MIREL SHPA antennas and independent two-channel evaluation of the transition over the track electromagnet. In case of detection of a transition over the track electromagnet, it signals the transition to the superior MIREL VZ1 system via the RS485 communication line. The superior system then visually or acoustically prompts the operator of the rolling stock to confirm vigilance. If the vigilance challenge is not served, the superior system intervenes.

The SHPZJ basic unit performs the functions of an integrated Polish security system without a superior system. Ensures vigilance when passing over track electromagnet, cyclical vigilance and function of the operating system intervention.



### Nomenclature

SHPE / SHPZJ.V.USWHM



### Modifications

No record.

### Modifications prepared for new applications

Designation	Supply voltage [VDC]	Software version	Hardware range	Mechanical design	Notes
SHPE.1.201AL	24	01	A	L	WF545
SHPE.1.201AU	24	01	A	U	WF892

### Device type

Designation	Description
SHPZJ	Separate central unit of MIREL SHP system with integrated „CUVAK“ vigilance prompting functionality
SHPE	Cooperating device for MIREL VZ1 system for functionality extension by SHP system

## Mechanical design

Designation	Type	Dimensions W x H x D [mm]	Construction system	Modification of construction system	Assembly	Covering <sup>1)</sup>	Weight [kg]
L	SHPZJ	130 x 105 x 228	BOXTUG	17A	left	IP40	1,8
	SHPE	130 x 64,5 x 228	BOXTUG	09A	left	IP40	1,2
P	SHPZJ	130 x 105 x 228	BOXTUG	17A	right	IP40	1,8
	SHPE	130 x 64,5 x 228	BOXTUG	09A	right	IP40	1,2
U	SHPZJ	132 x 129 x 226	BOXKOG	17	–	IP40	2,0
	SHPE	76 x 129 x 226	BOXKOG	09	–	IP40	1,3

<sup>1)</sup>The covering is in the state of the connected connectors

## Specifications

The catalogue sheet was prepared on the basis of the following specifications:

Number	Version	Name
2298SHP	200605	Technical conditions
1068M	170516	BOXTUG Installation conditions
2468M	191016	BOXKOG Installation conditions
2454SHP	180322	Operating manual
2452SHP	180322	Maintenance manual, diagnostic

## Usage

MIREL VZ1 - train protection

MIREL SHP – train protection

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**Modifications not recommend for new applications**

No record.