

Horn of the train protection MIREL VZ1

Type **VZ1HP, HP**

Illustrative pictures

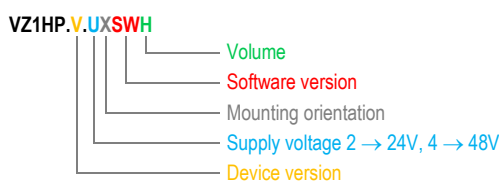
Horn of the train protection is primary used for supply of acoustic vigilance call of the train protection. Working frequencies and intensity of the horn is determined by acoustic background in the cab of the locomotive. Horn is designated for installation on control panel with fixing from rear side or front side. It is laid in an aluminium box with terminal board on the back panel. Horn can be used as acoustic indicator of the train protection MIREL VZ1 as a product VZ1HP or in other systems as a peripheral equipment MIREL HP.

Fixing components are delivered with a product.

Given above is not valid for a free standing equipment, where equipment is fixed by the joint, which is possible to set from -20° up to +130°. Free standing equipment is laid in a plastic box.



Nomenclature



Modifications

Designation	Device version	Supply voltage [VDC]	Mounting orientation	Software version	Volume	Notes
VZ1HP.FD.201	FD	24	universal	01	standard	1), 2), 3)
VZ1HP.FD.201H	FD	24	universal	01	increased	1), 2), 3)
VZ1HP.FD.401	FD	48	universal	01	standard	1), 2), 3)
VZ1HP.FD.401H	FD	48	universal	01	increased	1), 2), 3)
VZ1HP.PD.201	PD	24	universal	01	standard	1), 2), 3), 4)
VZ1HP.PD.201H	PD	24	universal	01	increased	1), 2), 3), 4)
VZ1HP.PD.401	PD	48	universal	01	standard	1), 2), 3), 4)
VZ1HP.PD.401H	PD	48	universal	01	increased	1), 2), 3)
VZ1HP.MD.201H	MD	24	universal	01	increased	1), 2)
HP.FD.201	FD	24	universal	01	standard	1), 2)
HP.FD.201H	FD	24	universal	01	increased	1), 2)
HP.FD.201N	FD	24	universal	01	reduced	
HP.FD.401	FD	48	universal	01	standard	1), 2)
HP.FD.401H	FD	48	universal	01	increased	1), 2)
HP.FD.401N	FD	48	universal	01	reduced	
HP.MD.201	MD	24	universal	01	standard	1), 2)
HP.MD.201H	MD	24	universal	01	increased	1), 2)
HP.MD.201N	MD	24	universal	01	reduced	
HP.MD.401	MD	48	universal	01	standard	1), 2)
HP.MD.401H	MD	48	universal	01	increased	1), 2)
HP.MD.401N	MD	48	universal	01	reduced	

- 1) homologated in Slovakia
 2) homologated in Czech Republic
 3) homologated in Hungary
 4) homologated in Poland

Modifications prepared for new applications

No record.

Type of device

Designation	Use in MIREL systems
VZ1HP	acoustic indicator in the MIREL VZ1 train protection system
HP	cooperating device in MIREL RM2 and MIREL SHP system

Device version

Designation	Description	Dimensions W x H x D [mm]	Weight [kg]
0	box design, single-tone	109 x 65 x 61	0,15
D	box design, twin-tone	109 x 65 x 61	0,15
P	plastic, with rear fitting, single-tone	72 x 72 x 64	0,13
PD	plastic, with rear fitting, twin-tone	72 x 72 x 64	0,13
F	metal with front fitting, single-tone	72 x 100 x 50	0,28
FD	metal with front fitting, twin-tone	72 x 100 x 50	0,28
M	metal with rear fitting, single-tone	72 x 72 x 50	0,25
MD	metal with rear fitting, twin-tone	72 x 72 x 50	0,25

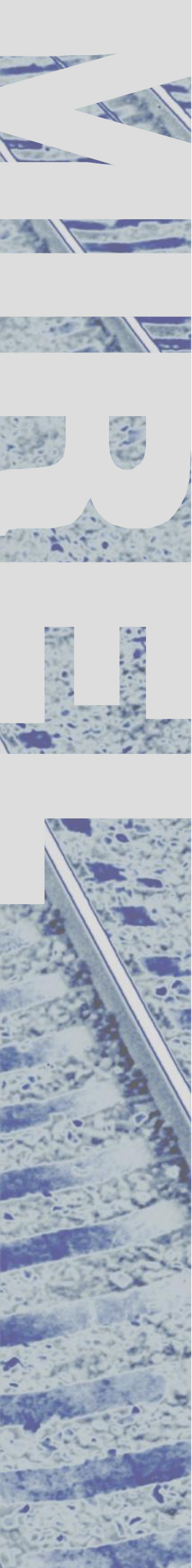
Volume

Designation	Description	Acoustic pressure [dB(A)], 1m			
		(P)	(PD)	(F, M)	(FD, MD)
N	reduced	66,2	65,4	67,6	65,0
-	standard	72,9	71,6	74,3	71,5
H	increased	79,2	77,6	80,6	77,9

Specifications

The Catalogue Sheet was prepared on the basis of the following specifications:

Number	Version	Title
257VZ1	230721	Technical conditions
1122VZ1	230926	Installation manual
222VZ1	110330	VZ1HP.0,D Installation conditions
980M	210810	Box 72x72 Installation conditions
2283M	210810	PPxD Installation conditions
153VZ1	230726	Operating manual
154VZ1	230726	Maintenance manual, diagnostics



Usage

MIREL VZ1 – train protection

MIREL RM2 – integrated on-board system

MIREL SHP – train protection

Modifications not recommended for new applications

Description	Device version	Supply voltage [VDC]	Mounting orientation	Software version	Volume	Notes	Substitute
VZ1HP.D.2L01	D	24	left	01	standard	1), 2), 3)	–
VZ1HP.D.2P01	D	24	right	01	standard	1), 2), 3)	–
VZ1HP.D.4L01	D	48	left	01	standard	1), 2), 3)	–
VZ1HP.D.4P01	D	48	right	01	standard	1), 2), 3)	–

¹⁾ homologated in Slovakia

²⁾ homologated in Czech Republic

³⁾ homologated in Hungary

