

日期：2017 年 4 月 9 日

Date: Apr. 9th , 2017

主题：事件记录仪接口设计说明

Sub: Design Specification of Event Recorder Interface

针对事件记录仪的安装及电气接口信号，在 2017 年 4 月阿根廷进行的技术交流中贝铁进行了详细的规定。资阳公司根据会议交流内容对接口进行核查，并提交最终设计说明，具体如下所示：

With reference to the installation & electric interface signal of event recorder, TA-BC specify it in the technical communication meeting held in Argentina in April, 2017. CRRC Ziyang checked the interface as per the content in meeting minutes, and submit the final design specification as follow:

1. 设备安装

1- Installation of equipment

1.1 记录仪安装在电气柜内，安装位置如图 1 所示。

1.1 Event recorder is installed in electric cabinet, installation location refers to fig.1.

记录仪安装板的外形尺寸 (长×宽，单位 mm)为: 516×330

Dimension of event recorder installation board (length * width , unit: mm): 516* 330

记录仪安装定位孔的尺寸 (长×宽，单位 mm)为: 305×289

Dimension of location hole for installing event recorder (length * width , unit: mm): 305* 289

记录仪安装板距上部设备安装底面高度 (单位 mm) : 247

Distance between event recorder installation board and installation bottom face of upper equipments (unit: mm) : 247

记录仪安装后上部净空 (单位 mm) : 141

Space above event recorder (unit: mm) : 141

记录仪安装后距左右侧设备距离 (单位 mm) : 左侧 170 , 右侧 340

Distances between event recorder and other equipments at left/right side (unit: mm) :
left-170, right-340



图 1

Fig.1

1.2 远程下载装置现场自制过渡板安装在电气柜右侧上方 (如图 2 所示)。

1.2 The remote download device transition plate made in site is installed in the upper right of electric cabinet (refer to fig. 2).

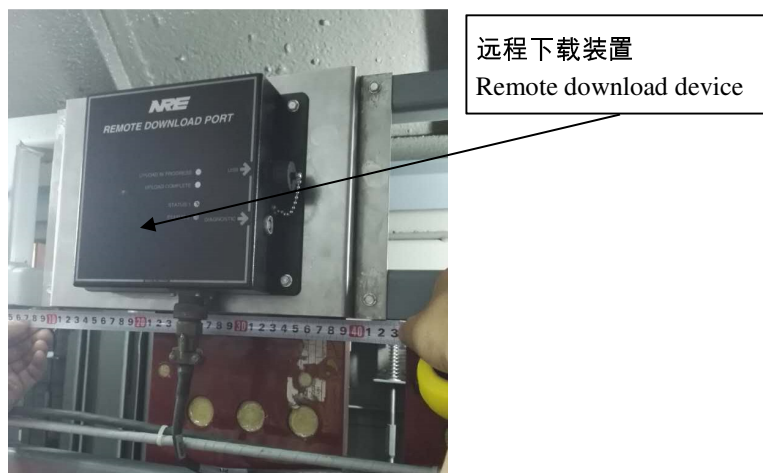


图 2

Fig.2

1.3 制动机手柄信号采集控制盒安装在操纵台内, 如图 3 所示。安装及尺寸设计由厂家负责。

1.3 Brake handle signal collection control box is installed in the console, refers to

Fig.3. The manufacturer of event recorder should be responsible for its installation and size design.

制动机手柄采集控制盒
Brake handle signal collection
control box



图 3

Fig.3

2. 电气接口

2. Electrical interface

依据会议与用户确认的内容，资阳公司米轨机车事件记录仪电气接口设计满足用户需求，符合技术响应表要求，详见表 1。

According to the content confirmed by user, the electrical interface design of event recorder on meter-gauge locomotive manufactured by CRRC Ziyang Co., Ltd. meets user's request and conforms to the requirement of response table, see the details as in table

1.

表 1- 事件记录仪电气接口
 Table 1. Electrical interface of Event Recorder

事件记录仪电气接口说明 Description of Electrical Interface of Event Recorder						
序号 NO.	项点 Item	定义 Definition	接口位置 Location of Interface	要求条款 Requirement item	符合条款情况 Whether com- plied	备注 Remark
1	日期时间 Date and time	无 N/A	无 N/A	item 1	是 YES	Provided by ERU
2	司控器手柄位信号 Notches signal of master controller	“0”位 “0” position	XT4/24	item 2	是 YES	
		A	XT4/25			
		B	XT4/26			
		C	XT4/27			
3	制动机信号 Brake signal	紧急制动 Emergency brake	XT4/28	item 4	是 YES	
		制动机手柄信号 Brake handle signal	是 Yes	item 3	是 YES	Provided by event record
4	压力信号 Brake pressure signal	制动管压力+ Brake pipe pressure +	XT4/18	item 5	是 YES	4-20 Ma

		制动管压力- Brake pipe pressure -	XT4/19			
		制动管屏蔽线 Brake pipe shield wire	XT4/20			
		制动缸压力+ Brake cylinder pressure +	XT4/21	item 6	是 YES	4-20 Ma
		制动缸压力- Brake cylinder pressure -	XT4/22			
		制动管屏蔽线 cylinder pressure shield wire	XT4/23			
		速度信号 Speed signal	XT4/14			
5	机车速度 Locomotive speed	速度传感器电源- Speed sensor power -	XT4/15	item 8	是 YES	200 pulse per rotation
		速度传感器电源+ Speed sensor power +	XT4/16			DC15V +
						DC15V -

		速度传感器屏蔽线 Speed sensor shield wire	XT4/17			
6	机车方向信号 Reverser signal	前向信号 Forward	XT4/30	item 9	是 YES	
		中立位 Neutral	XT4/31			
		后向信号 Reverse	XT4/32			
7	电阻制动工况 Condition of dynamic brake	电阻制动 Dynamic brake application	XT4/29	item 7	是 YES	
8	警惕信号 Live-man signal	警惕工作信号 Cut off/cut in of live-man system	XT4/38	item 13	是 YES	
		警惕应答信号 Live-man pedal	XT4/33	item 10		
		警惕应答信号 button signal	XT4/34	item 10		
9	风笛信号 Air horn signal	风笛信号 Application of air horn	XT4/35	item 11	是 YES	
10	头灯信号 Application of headlight	头灯 1 信号 Application of headlight 1	XT4/36	item 12	是 YES	

		头灯 2 信号 Application of headlight 2	XT4/37			
11	其它要求 Other requirement	PCS 信号 PCS signal	XT4/39	item 14	是 YES	新增信号 New signal
12	工作电源 Power	工作电源 + Power +	XT4/7	无 No		DC110V,
		工作电源 - Power -	XT4/11			
<p> 注释：1、XT4/24 表示电器柜内接线端子排 XT4 端子的 24 针脚； 2、若用户需要增加信号的输入项，可与资阳公司协商解决。 Note: 1. XT4/24 meaning 24 pins of XT4 at the terminal board in electric cabinet. 2. If any additional signals input is requested, the user should discuss with CRRC Ziyang. </p>						

阿根廷项目交车服务组

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