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JM2型密贴检查器 JM2 End Position Detector



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确保道岔安全工作
Safeguarding the Point Operation

密贴检查器设置在道岔转辙机牵引点之间，串接在道岔的表示系统中，用于检测牵引点之间尖轨的密贴和斥离状态，提高对道岔故障的监视。

西门子研发的JM2型密贴检查器根据在轨道的安装位置分为：

两侧安装型：JM2-L，必须成对使用；

中间安装型：JM2-Z。

The End Position Detector is installed between the point machines, and connected in series into the indication circuit. It is used to detect the closing status and the opening status of the blades between the point machines, and improve the monitoring of the point failure.

The JM2 End Position Detector developed by Siemens is classified as 2 types according to the mounting position in the rail:

JM2-L is installed on both sides of the track in pairs;

JM2-Z is installed between the two rails.

产品功能：

- 对密贴尖轨的工作状态进行精确监测。
- 当密贴尖轨与基本轨密贴后，因异常情况离开基本轨大于5mm时，能够快速切断“密贴”表示回路。
- 同时能够监测斥离尖轨的工作状态。

产品特点：

- 采用速动机构，检测灵敏，精度高；
- 采用专利技术，真正实现对密贴尖轨实时、高精度的检测；
- 连接杆件短，抗振动能力强；
- 采用插入式接点，技术成熟可靠；
- 模块化设计，易维护，寿命长；
- 两种型号可满足道心或轨旁安装，配置灵活。

产品适用于

- 提速道岔
- 高速道岔
- 干线铁路
- 城市轨道交通

The product can be applied in

- Speed-up points
- High-speed points
- Main lines
- Mass transit transportation lines

Customer Functions:

- Accurately monitor the working status of the points;
- Immediately shut off the indication circuit of "closure" when the clearance between the closed blade and the stock rail is beyond 5mm abnormally;
- Monitor the working status of the opened blade.

Customer Benefits:

- Adopt a quick-acting mechanism to detect the closing status of the closed blade with high sensitivity and precision;
- Fulfill a real time and highly precise detection to the closed blade by a patent technology;
- Short connecting rod and high vibration-proof ability;
- Adopt the plug-in contact with the mature and reliable technology;
- Module design, low maintenance and long service life;
- Two types are available for installation of the track center or the track side. The configuration is flexible.

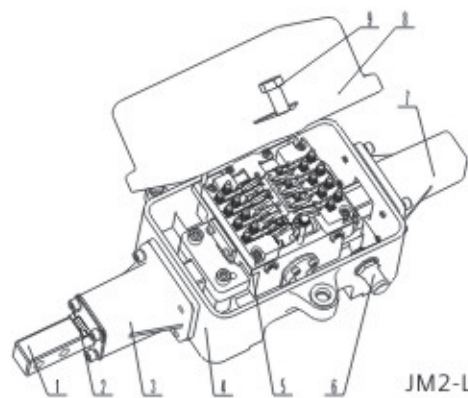




产品结构图

JM2型密贴检查器主要由底壳，表示杆，接点组和机盖等组件构成。

JM2-Z型与JM2-L型基本结构相同，接点组包括两个单元，对应的有两根表示杆。



JM2-L型结构图
JM2-L Layout

工作原理

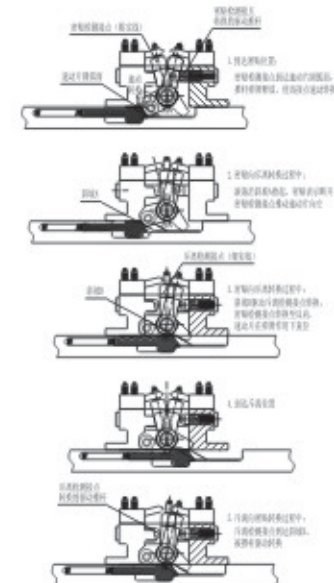
JM2型密贴检查器接点的转换由表示杆上所对应的斜坡A、B分别驱动，同时使推杆内的弹簧储能。反向由推杆弹簧释放推动接点转换。

1	表示杆	detection slide
2	移位标	displacement mark
3	导向法兰	guide flange
4	底壳	housing
5	接点组	contact assembly
6	电缆接头	Cable outlet
7	表示杆罩筒	sleeve for slide
8	机盖	cover
9	压紧螺栓	compression bolt

Product Layout

JM2 End Position Detector consists of housing, detection slide, contact assembly, cover, etc.

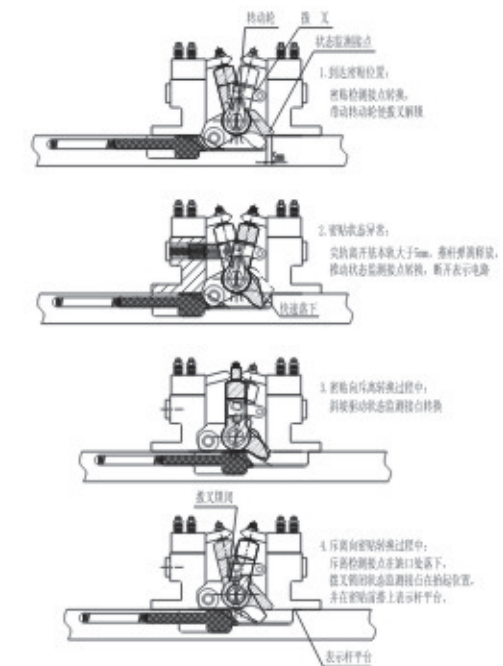
JM2-Z is same as JM2-L in basic configuration. It only differs in 2 sets of contacts and 2 detection slides in one JM2-Z.



JM2型密贴检查器工作原理
Working principle of JM2

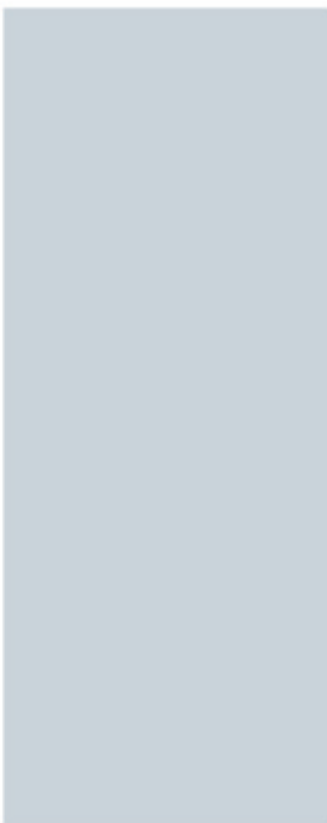
Working Principle

The switch-off of JM2 is driven by the slopes of A and B in the detection slide, and the switch-on is transformed by the release of the springs.



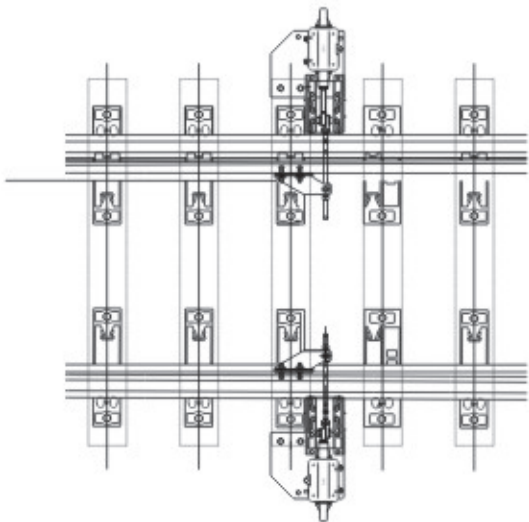
JM2-L1 (冗余型) 工作原理
Working principle of JM2-L1 (Redundancy)



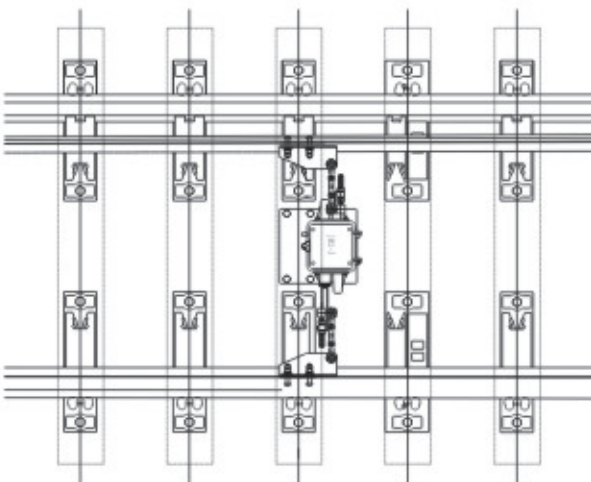


安装
Mounting

JM2-L 型密贴检查器在道岔上的安装图
On-site installation diagram of JM2-L



JM2-Z 型密贴检查器在道岔上的安装图
On-site installation diagram of JM2-Z



技术参数
Technical Data

		参数 Parameter		
		JM2-L型	JM2-Z型	JM2-L1(冗余型)
表示杆动程(mm)	Throwing stroke of the detection slide	65 ~ 160		
操作力(N)	Operating force	≥ 200		
斥离检查距离(mm)	Detection of the abnormal opened blade	≤ 65		
密贴状态监测报警距离(mm)*	Alarming distance of the closing status monitoring	/	/	5 ~ 6
设置台数 / 检查点	Sets/monitoring points	2台	1台	2台
重量(kg)	Weight	≈ 28	≈ 41	≈ 28
防护等级	Degree of protection	IP54		

*仅对JM2-L1（冗余型），指表示杆离开密贴位置的报警距离。
Only for JM2-L1 (Redundancy). It means the alarm displacement of the detection slide leaving from the closing position.

