JM2型密贴检查器
JM2 End Position Detector
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Safeguarding the Point Operation

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 its 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.

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.

Product Features:
- Suitability for use in speed-up points, high-speed points, main lines, and mass transit transportation lines.
**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.

**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-L work diagram | JM2-L work principle
|--------------------|----------------------|
| JM2-L | Working principle of JM2
| JM2-L-1 (redundancy) | Working principle of JM2-L-1 (redundancy)
技术参数

**Technical Data**

<table>
<thead>
<tr>
<th>参数 Parameter</th>
<th>JM2-L型</th>
<th>JM2-Z型</th>
<th>JM2-L1(完全型)</th>
</tr>
</thead>
<tbody>
<tr>
<td>表示行程 (mm) Throwing stroke of the detection slide</td>
<td>65 ~ 160</td>
<td></td>
<td></td>
</tr>
<tr>
<td>操作力 (N) Operating force</td>
<td>&gt; 200</td>
<td></td>
<td></td>
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<tr>
<td>斜面检查距离 (mm) Detection of the abnormal opened blade</td>
<td>≤ 65</td>
<td></td>
<td></td>
</tr>
<tr>
<td>密度状态监测报警距离 (mm)* Alarming distance of the closing status monitoring</td>
<td>/</td>
<td>/</td>
<td>5 ~ 6</td>
</tr>
<tr>
<td>设置点数 / 检查点 Set monitoring points</td>
<td>2个</td>
<td>1个</td>
<td>2个</td>
</tr>
<tr>
<td>重量 (kg) Weight</td>
<td>~ 28</td>
<td>~ 41</td>
<td>~ 28</td>
</tr>
<tr>
<td>防护等级 Degree of protection</td>
<td>IP54</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*仅JM2-L1(完全型)。指示中表示行程位置的报警距离。
Only for JM2-L1 (Redundancy). It means the alarm displacement of the detection slide bearing from the closing position.