FG-3D wheel measurement safety system

Description

The system is designed for contactless automatic measurement of geometrical parameters of railway wheels. With the data collected with the measurement system can automatically be viewed in our web-based dashboards. The system has primarily been designed for safety, since it will identify any train or tram that has wheels that don’t meet the required safety specifications.

- Real-time measurement of moving train wheels
- Easy installing at any type of rail infrastructure
- Incorporating the latest video and laser technology
- Eliminates manual measurement error
- 24 hours operation

Basic technical data

Light system (mainentance locations)
Train speed – up to 15 km/hour

Standard system
Train speed – up to 200 km/hour

Premium system
Train speed – up to 350 km/hour (available from Q4 2018).

<table>
<thead>
<tr>
<th>Name of parameter</th>
<th>Accuracy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wheel profiles</td>
<td>± 0.1 mm</td>
</tr>
<tr>
<td>Flange height</td>
<td>± 0.1 mm</td>
</tr>
<tr>
<td>Flange width</td>
<td>± 0.1 mm</td>
</tr>
<tr>
<td>Flange angle</td>
<td>± 0.1 mm</td>
</tr>
<tr>
<td>Rim thickness</td>
<td>± 0.1 mm</td>
</tr>
<tr>
<td>Tread width</td>
<td>± 0.1 mm</td>
</tr>
<tr>
<td>Back to back gauge</td>
<td>± 0.05 mm</td>
</tr>
<tr>
<td>Wheel diameter</td>
<td>± 0.2 mm</td>
</tr>
</tbody>
</table>

Scope of delivery

- Frames with laser scanners,
- Inductive sensors of wheel presence,
- Industry computer,
- Software,
- Calibration carriage.
Overall dimensions

FG-3D wheel measurement safety system
Real time wheels geometry measurement system

Gallery

The information provided herein is to the best of our knowledge true and accurate, it is provided for guidance only. All specifications are subject to change without prior notification.

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