Axle Counting

Frauscher Advanced Counter FAdC\textsuperscript{®i}

The FAdCi is a particularly economical variant of the FAdC axle counter for special requirements such as shunting yards, industrial railway and public transport. The FAdCi offers all the advantages of the FAdC.

Information
- Clear/occupied status (SIL 3)
- Direction (SIL 3)
- Number of axles
- Speed
- Wheel diameter
- Diagnostic data

Applications
- Track vacancy detection
- Level crossing protection
- Switching point protection

Benefits
- Simple and flexible configuration
- Software interface
- Flexible architecture
- Low maintenance
- Simple project management
Connection to a high-performance electronic interlocking is possible either via a vital customer-specific interface or the Frauscher Safe Ethernet FSE protocol.

All processes – from planning, engineering and configuration, to diagnostics, maintenance and adaptation – are supported by innovative software tools. By means of logic application, methods such as Supervisor Track Section or Counting Head Control further increase system availability.

Technical Data

<table>
<thead>
<tr>
<th>FAdC®i</th>
<th>Interfaces</th>
<th>Safety level</th>
<th>Temperature</th>
<th>Humidity</th>
<th>Electromagnetic compatibility</th>
<th>Mechanical stress</th>
<th>Speed</th>
<th>Dimensions</th>
<th>Power supply</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Vital, customer-specific protocol</td>
<td>SIL 3</td>
<td>Outdoor equipment: -40 °C to +85 °C (&quot;outside&quot; climatic class TX of EN 50125-3)</td>
<td>Outdoor equipment: 100%, IP68</td>
<td>EN 50121-4</td>
<td>3M2 according to EN 60721-3-3</td>
<td>0 km/h (static) to 80 km/h</td>
<td>Format: 19” housing for 100 mm x 160 mm boards</td>
<td>Voltage: +19 V DC bis +72 V DC Power: approx. 4.5 W per counting head Isolation voltage: 3 100 V</td>
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<tr>
<td></td>
<td>Frauscher Safe Ethernet FSE protocol and/or vital output via optocoupler or relay interface</td>
<td></td>
<td>Indoor equipment: -40 °C to +70 °C (&quot;in cabinet&quot; climatic class T2 of EN 50125-3)</td>
<td>Indoor equipment: up to 100% (without condensation or ice formation for the entire temperature range)</td>
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<td>Width: board rack with 42 or 84 width units</td>
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<td>Height: 3 height units</td>
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</table>

| COM | Communication board |
| AEB | Evaluation board |
| FMA | Track section |
| RSR | Wheel sensor |