

# Axle counting system ACS2000 for city lines

(max. 6 or 2x6 wheel sensors RSR180 can be connected)

The axle counting system ACS2000 generates the track clear and track occupied indication of a track section. Direct relays are used to output the track vacancy and occupancy detection.

In transmission mode the ACS2000 system is used for monitoring long track sections between two stations or block posts. The transmission of the axle counting information is executed using a modem link matching the procedural provisions.



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| <b>Dimensions</b>                              |  |
| Format<br>Width<br>Height                      | 19" board rack for boards 100 mm x 160 mm<br>42 or 84 pitch units<br>3 height units  |
| <b>Power supply</b>                            |  |
| Voltage<br>Power rating<br>Insulation voltage  | +19 V DC to +72 V DC<br>approx. 4,5 W per counting head<br>2500 V AC   |
| <b>External interfaces</b>                     |  |
| <b>Signal types</b>                            | Section clear/occupied (non-equivalent signal)<br>Traversing of wheel sensor system 1 or system 2 respectively<br>Traversing of wheel sensor in direction of system 1 or system 2 respectively<br>Diagnostics: serial interface RS232<br>Reset |
| <b>General Limits</b>                          | 72 V DC<br>600 mA DC (ohmic load), 300 mA DC (inductive load)300 mA DC   |
| Insulation voltage for all external interfaces | 2500 V AC  |
| <b>Ambient conditions</b>                      |  |
| Temperature<br>Humidity                        | -25 °C to +70 °C<br>Up to 100 %, but without condensation and ice formation for the entire range of temperature  |
| <b>Mechanical stress</b>                       | 3M2 according to EN 60721-3-3  |
| <b>Electromagnetic compatibility</b>           | EN 50121-4   |
| <b>Applications (examples)</b>                 | Light rails, Metros and railways on city and short-distance lines (Germany, Netherlands, France, Poland, Austria)  |
| <b>Further information</b>                     | The ACS2000 confirmed the CENELEC standards and complies to the requirements set forth in EN 50126, EN 50128, EN 50129 and SIL/SSAS 4.   |