

Axle counting system ACS2000 for long-distance and main lines

(max. 6 or 2x6 wheel sensors RSR122/RSR123/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.



Dimensions	
Format	19" board rack for boards 100 mm x 160 mm
Width	42 or 84 pitch units
Height	3 height units
Power supply	
Voltage	+19 V DC bis +72 V DC
Power rating	approx. 4.5 W per counting head
Insulation voltage	2500 V AC
External interfaces	
Signal types	Section clear/occupied (non-equivalent signal) Traversing of wheel sensor system 1 or system 2 respectively Traversing of wheel sensor in direction of system 1 or system 2 respectively Diagnostics: serial interface RS232 Reset
General limits	
max. switching voltage	72 V DC
max. switching power	600 mA DC (ohmic load) 300 mA DC (inductive load)
Insulation voltage for all external interfaces	2500 V AC
Ambient conditions	
Temperature	-25 °C to +70 °C
Humidity	Up to 100 %, but without condensation and ice formation for the entire range of temperature
Mechanical stress	3M2 according to EN 60721-3-3
Electromagnetic compatibility	EN 50121-4 (for using wheel sensor RSR122, RSR123 or RSR180)
Applications (examples)	Heavy rail, long-distance and main lines (Australia, Europe, Africa, Asia, South America, Latin America)
Further information	The ACS2000 confirmed the CENELEC standards and complies to the requirements set forth in EN 50126, EN 50128, EN 50129 and SIL/SSAS 4.