

Evaluation board AMC

(with wheel sensor RSR121/RSR122/RSR180)

The evaluation board AMC is used for power supply and evaluation of a wheel sensor.

Depending on programming, the AMC evaluation board can be used for the following applications:

- level crossing protection systems,
- for all railway applications, where wheels require detection and output of data such as system pulse, direction pulse, speed detection and number of wheels,
- axle counting.



Dimensions	
Format	100 mm x 160 mm (Euroboard)
Width	4 pitch units
Height	3 height units
Power supply	
Voltage	+19 V to +72 V DC
Power consumption at +19 V DC	111 mA (RSR180), 85 mA (RSR121, RSR122)
Power consumption at +72 V DC	per channel 31 mA (RSR180), 25 mA (RSR121, RSR122)
Insulation voltage	per channel 2500 V AC
Output signal	
Signal types (optocoupler)	Traversing of wheel sensor system 1 or 2 Traversing of wheel sensor in direction 1 or 2 Measurement gate and wheel center forming Error output Diagnostics data
General limits	
max. C-E voltage	72 V DC
max. switching current	10 mA DC
Signal duration direction	adjustable from 0 ms to 60 s
Signal prolongation systems	adjustable from 0 ms to 60 s
Alternative signal delay	adjustable from 0 ms to 60 s
Serial output	RS232
Insulation voltage between evaluation and output	2500 V AC
Ambient conditions	
Temperature	-25 °C to +70 °C
Humidity	Up to 100 % but without condensation and ice formation over the entire range of temperature
Mechanical stress	300 mm bis 2100 mm
Electromagnetic compatibility	EN 50121-4
Applications (examples)	Long-distance lines and industrial sector (Australia, Germany, Netherlands, Austria and Poland)