

CW-310

WHEEL SPEED SENSOR - PULSE CONDITIONING



The CW-310 is designed for signal conditioning during simulation of active wheel speed sensors. To do so it emulates the physical layer of widespread wheel speed sensors available on the market.

The signals are generated as a voltage controlled current source on the one hand and as a voltage controlled current sink on the other. Signal conditioning is independent of the transmission protocol of higher communication layers; as a consequence, it is equally suitable for PWM based sensors as for intelligent sensors - with or without an additional data protocol.

The open design in the top-hat rail housing (45 mm to DIN) offers the user a quick and easy solution to automate procedures in test bench technology.

To also be able to simulate higher protocol layers the CW-311 (wheel unit simulator) supplements the series of sensor simulators with a modular wheel speed and tire pressure sensor simulator, which can easily be embedded in a test bench environment via CAN interface.

PERFORMANCE CHARACTERISTICS

- Signal conditioning for active wheel speed sensors with current source
- Signal conditioning for active wheel speed sensors with current sink
- Simultaneous simulation of 2 different sensor types
- Four channels respectively per sensor type
- Protocol-independent control via voltage signals
- Top-hat rail housing for quick and easy installation

OUTPUTS

Number	8
Type	4 current sinks 4 current sources
Output range current sink	0 mA to 30 mA
Output range current source	0 mA to 9 mA

INPUTS

Number	8
Input voltage range	0 VDC to 12 VDC

POWER SUPPLY

Supply Voltage	9 VDC to 36 VDC
Current consumption	250 mA at 12 VDC

ENVIRONMENTAL CONDITIONS

Temperature range operation	-20 °C to +70 °C
Temperature range storage	-20 °C to +85 °C
Relative humidity operation	35 % to 85 %, non-condensing

GENERAL INFORMATION

Housing	45mm-DIN Top-hat rail housing
Dimensions (LxWxH)	88 mm x 90 mm x 45 mm
Weight	95 g

FURTHER DEVICES CW-300 SERIES

CW-301 CAN-controlled Power Supply	CW-326 Signal-FIU
CW-311 Wheel Speed Sensor and Wheel Unit Simulation	CW-327 A/D-Converter
CW-321 Power Relay	CW-328 Current measurement interface
CW-322 20 Fold Signal Relay Interface	CW-329 High Load Signal Relais
CW-323 D/A-Converter	CW-390 High Load Relais up to 35 A
CW-324 Current Sink	CW-391 High Load Relais up to 70 A
CW-325 Bus multiplexer	CW-392 High Load Relais with integrated current measurement