Bahrmann

industrial measurement

Configurable 2-channel signal converter

Smart Signal Conditioner 5580

Smart Signal Conditioner SW5580

Product description

The 5580 is a configurable signal conditioner with monitor function for cost-effective continuous machine monitoring.

It is designed to receive signals from seismic velocity sensors, accelerometers, or eddy current sensors (proximity) and generates a 4...20 mA output signal proportional to the measured variable.

To complement the 5580, the SW5580 includes solid-state contacts (SPST) or optional floating relay contacts (SPDT).

Applications

- Fan
- Drives
- Pumps
- Compressors
- Motors

Benefits

- Compact, configurable signal evaluator for decentralized machine monitoring
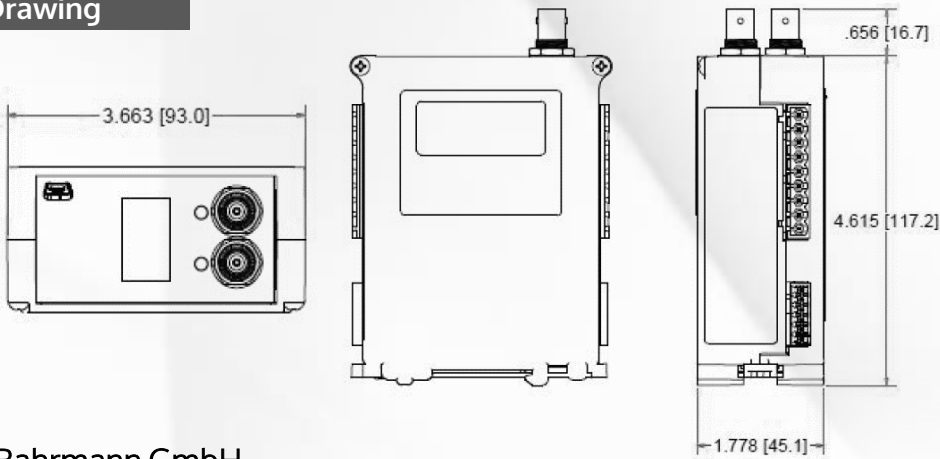- Raw signal output available on both sides (BNC)

Features

- 2-channel version with monitor function
- 2 switching outputs (SW5580), relay (SPST) or solid-state (SPDT)
- Connection for seismic sensors: vibration velocity, acceleration
- Connection for eddy current systems (proximity): Vibration, Position, Speed
- Integrator for vibration velocity and displacement
- 4...20mA output, NAMUR standard (Single- / or 'Dual-Path-Mode)
- LCD display (4...20mA current value and measured value)
- Raw signal/diagnostic output up to 300m
- LED alarm indicator, multicolor (OK, pre / main alarm)
- Free PC Software
- Easy configurable via mini-USB port: Sensor type, measuring range, filter, switching thresholds
- applications (impact, rod drop)
- Easy cabinet mounting, DIN rail (35 mm),
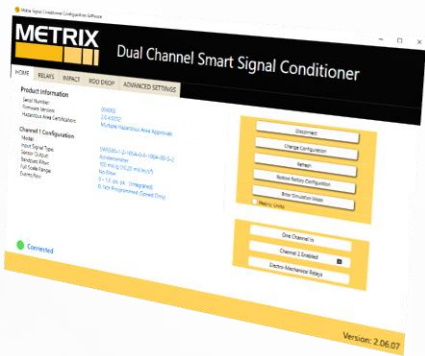- Screw terminal connection
- Various approvals

Technical Data

Charakteristics	Technical values
Power supply	20 … 30 VDC
Frequency range (-3dB)	2 Hz ... 2 kHz Vibration velocity 2 Hz ... 5 kHz Eddy current sensing / Proximity 2 Hz ... 10 kHz Acceleration
Raw output signal	BNC, terminal
Absorbed power	ca. 5 W
Case material	ABS PA765
Operating temperature range	-40°C … +85°C (5580); -40°C … +65°C (SW 5580)
Output accuracy	4…20 mA DC (Source) ± 5%, limited by NAMUR standard
Weight	ca. 0.360 kg

Drawing

Free software for system configuration in the individual application:

Bahrmann GmbH