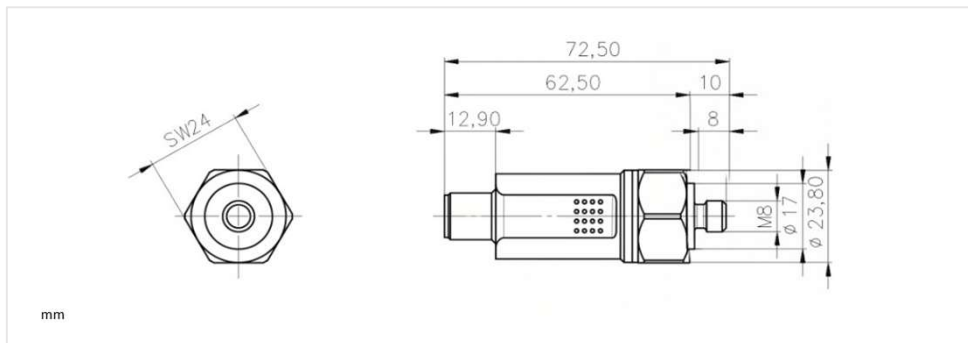


HE050 Analog



Product Data

|| selectable option

Technical Specification	
Measurand	Vibration velocity (mm/s, v-rms) Vibration acceleration (g, a-rms) Vibration acceleration (g, a-peak-hold) Temperature (°C)
Measuring Range	0...8 mm/s to 0...128 mm/s, v-rms 0...1 g to 0...10 g, a-rms 0...1 g to 0...14 g, a-peak-hold -50...100 °C
Switching Signal	0, 1 or 2 Switching Signals: selectable across all Measuring Ranges, including Delay Time and high-active / low-active configuration
Frequency Range	10...50 Hz to 10...1000 Hz
Accuracy	±10 % according to DIN ISO 2954 ±0.5 % at Calibration Point
Calibration Point	159.2 Hz @ 90 % of the Measuring Range
Cross-Sensitivity	< 5 %
Max. Acceleration	±15 g
Service Life	10 years
MTTF Value	112.43 years
Delay Times	0 s to 60 s
Averaging Time	2 s (expo. time-weighted RMS - 99 % after 10 s)
Electrical Specification	
Supply Voltage	18...30 V DC
Current Consumption (max.)	120 mA to 700 mA (dependent on Outputs)
Switching Contact Electrical Design	PNP
Switching level	Low: 0 V High: corresponds to supply voltage (24 V) minus 2 V
Switching Contact Maximum Current	100 mA (Output 1) 500 mA (Output 2)
Load Analog Output	max. 500 Ohm
Outputs	
Output 1	NC - not connected Digital Switching Contact
Output 2	Analog 4...20 mA Output Digital Switching Contact
Interface	
Interface Type	Transmitter Three-Wire
Connection	
Connection Type	Connector, M12, 4-pin.

Features

- **Vibration & Temperature** values in accordance with DIN ISO 10816/20816
- **Analog Output and Switching Signals** **Factory pre-configurable** across Measuring Ranges
- Functional Safety: **SIL1**
- Ex protection: **Ex ec & Ex tc**
- Robust Stainless Steel Housing
- High Protection Rating: **IP 66/67**

Description

The **HE050 Analog** combines the precise monitoring of vibration velocity (v-rms), vibration acceleration (a-rms / a-peak-hold), or temperature in a compact **4...20 mA three-wire transmitter**. In accordance with DIN ISO 10816/20816, it delivers critical analog data for condition monitoring and can optionally be equipped with direct **switching outputs**. Ideal for versatile industrial applications – the HE050 Analog is available with **SIL1** certification and **ATEX** approval (Zone 2/22) upon request, and **integrates seamlessly** into any existing PLC. Effectively protect your equipment from unplanned downtime – with a sensor that combines **cost-effectiveness** and **robustness**.

Wiring Diagram

