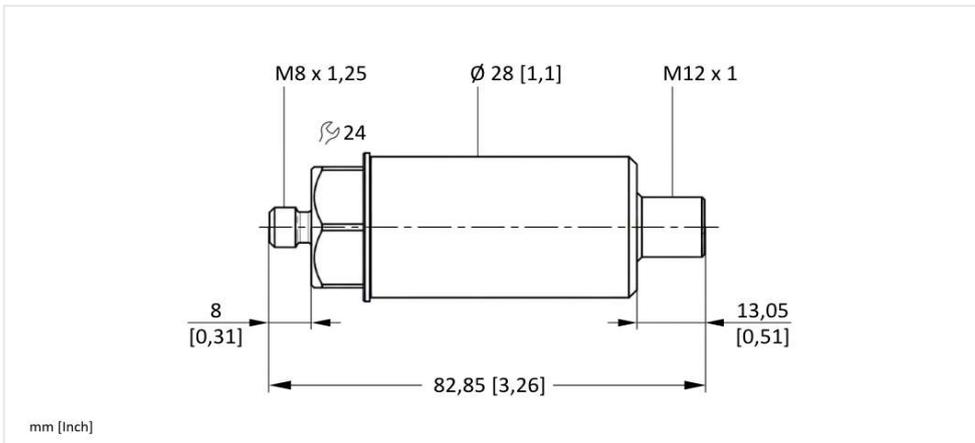


HE090



HAUBER Sensor Reliable Condition Monitoring



Product Data

Technical Specification	
Measurand	Vibration velocity (mm/s, v-rms)
Measuring Range	Available Measuring Ranges: 0...25 mm/s, v-rms 0...50 mm/s, v-rms
Frequency Range	10...1000 Hz
Accuracy	±10 % according to DIN ISO 2954
Calibration Point	159,2 Hz @ 90 % of the measuring range
Cross-Sensitivity	< 5 %
Max. Acceleration	±16,5 g
Service Life	10 years
MTTF Value	399 years
Averaging Time	1,1 s (exponentially time-weighted RMS value - 99 % after 5.5 s)

Electrical Specification	
Supply Voltage	10...30 V DC
Current Consumption (max.)	25 mA
Load Analog Output	max. 500 Ohm

Outputs	
Output 1	4-20 mA (proportional to the measuring range)

Interface	
Interface Type	Transmitter Two-Wire

Connection	
Connection Type	Connector, M12, 4-pin.
Pin Assignment	1 = L+ (10...30 V DC) 2 = NC - Not connected 3 = 4...20 mA output signal 4 = NC - Not connected

Environmental Conditions	
Ambient Temperature	-40...+60 °C
Measuring Head Temperature	-40...+125 °C
Max. Humidity	100%
Protection Rating	IP 66/67 Type 4X Enclosure (when connected)
Outdoor Application	product is suitable for outdoor applications

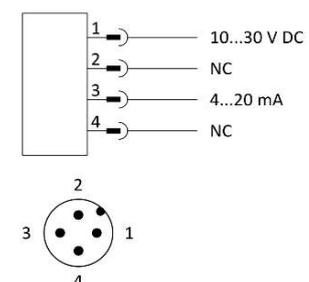
Features

- **Vibration Velocity** in mm/s (v-rms), according to DIN ISO 10816/20816
- Transmitter / Two-Wire
- Analog **4–20 mA Output** (proportional to Measuring Range)
- Robust Stainless Steel Housing
- High Temperature: **-40...+125 °C**
- High Protection Rating: **IP 66/67**
- M12 Connector (4-pin.)

Description

The **HE090** is an essential vibration sensor for modern **condition monitoring**. Based on **DIN ISO 10816** it delivers key data for the early detection of mechanical irregularities during operation. This makes the HE090 a powerful tool for **reducing downtime**, cutting operating costs, and **extending machine life**. With its robust stainless-steel housing and effective two-wire technology, the sensor is durable, **easy to integrate**, and ideal for demanding **industrial environments**.

Wiring Diagram



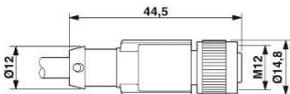
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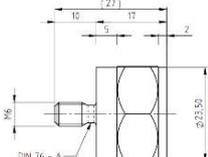
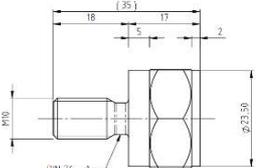
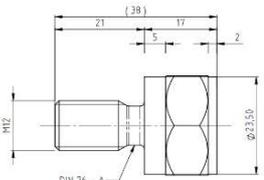
Mechanical Specification	
Housing Material	V2A stainless steel (1.4305)
Mounting	Thread (external)
	M8 x 8 mm Pitch 1,25 mm
Wrench Size Sensor	24 mm (external)
Mounting Type	horizontal / vertical
Measuring Direction	along the mounting axis
Tightening Torque Sensor	8 Nm
Torque Connector Nut	0,4 Nm
Weight	approx. 200 g

Certification	
Compliance	CE

Scope of Delivery	
Scope of Delivery	Vibration sensor Operating manual

Suitable Accessories

Sensor Cables	SKU
 <p>Sensor Cable Typ A</p> <p>M12 female connector, straight, 4-pin</p> <p>Further Lengths available: www.hauber-elektronik.de/en</p>	2 meter 10520
	5 meter 10521
	10 meter 10458
	20 meter 10828

Mounting Adapters	SKU
 <p>Mounting Adapter M8 - M6</p> <p>Typ 01.109.027 M8 x 10 mm - M6 x 10 mm Wrench Size: 24 mm Stainless Steel V4A (1.4404)</p>	11103
 <p>Mounting Adapter M8 - M10</p> <p>Typ 01.109.028 M8 x 10 mm - M10 x 18 mm Wrench Size: 24 mm Stainless Steel V4A (1.4404)</p>	11104
 <p>Mounting Adapter M8 - M12</p> <p>Typ 01.109.029 M8 x 10 mm - M12 x 21 mm Wrench Size: 24 mm Stainless Steel V4A (1.4404)</p>	11106