Installation Guide

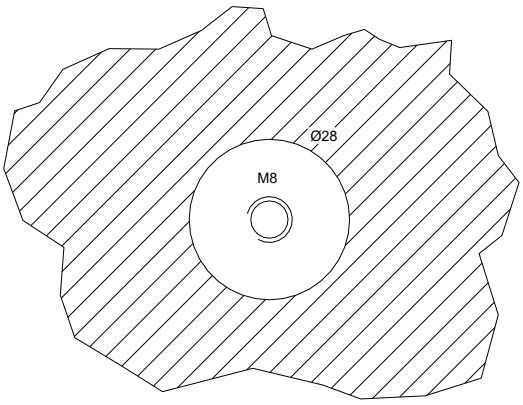
PCH 1106 COMPACT VIBRATION SENSOR

Usage:
PCH 1106 Mk2 is designed for permanent monitoring of unbalance and misalignment problems on rotating machinery. The sensor measures in mm/s, m/s² or mm, rms or Pk-Pk, and gives an output in both mA and voltage relative to full scale (FS). Some PCH 1106 Mk2 versions measure 0-100 °C or deliver RAW output as well. The sensor is sensitive parallel to the length axis.

Mounting:
The PCH 1106 Mk2 is mounted on the surface by the integrated M8 stud at the bottom of the sensor.

1) Prepare a flat surface of min Ø28 using a top moulder, which fits in an electrical drill (CHO 1102).
2) Drill and tap a M8x1.25 thread in the centre of the flat surface. The depth should be min 10 mm (CHO 1103).
3) Use a coupling agent such as Loctite 242/243 or 270 to lock the stud for permanent installation.
4) Tighten the sensor directly to the surface using 3-6 Nm mounting torque.

To compare the vibration measurement to an international standard such as the ISO 10816-3, the sensor must be mounted on the bearing house (block) in the radial and horizontal direction, see below:



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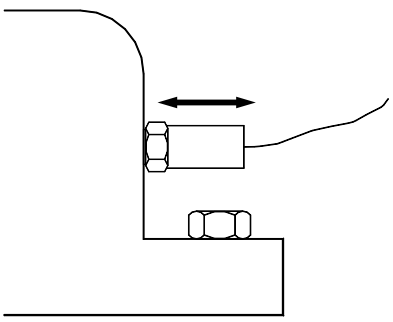

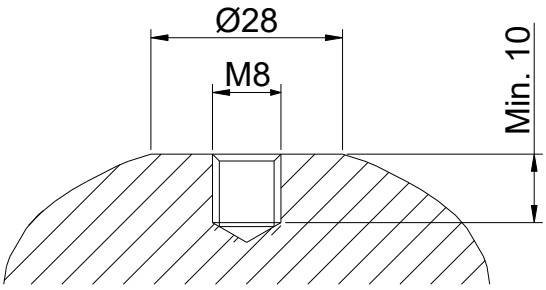

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Connections:

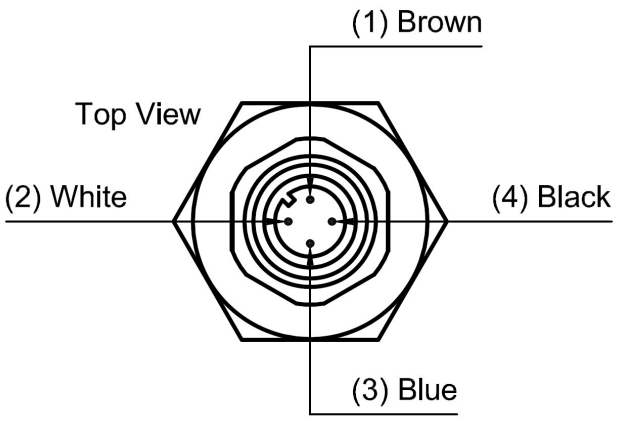
The PCH 1106 Mk2 has a standard M12 connector and can optionally be supplied with a shielded cable. PCH offers the following cable variants: CHL 1077 (10 meters), CHL 1075 (5 meters), CHL 1074 (3 meters) or CHL 1073 (1.5 meters). 90° angled connectors are available upon request.

We recommend that the cable shield is connected to the house of the sensor.

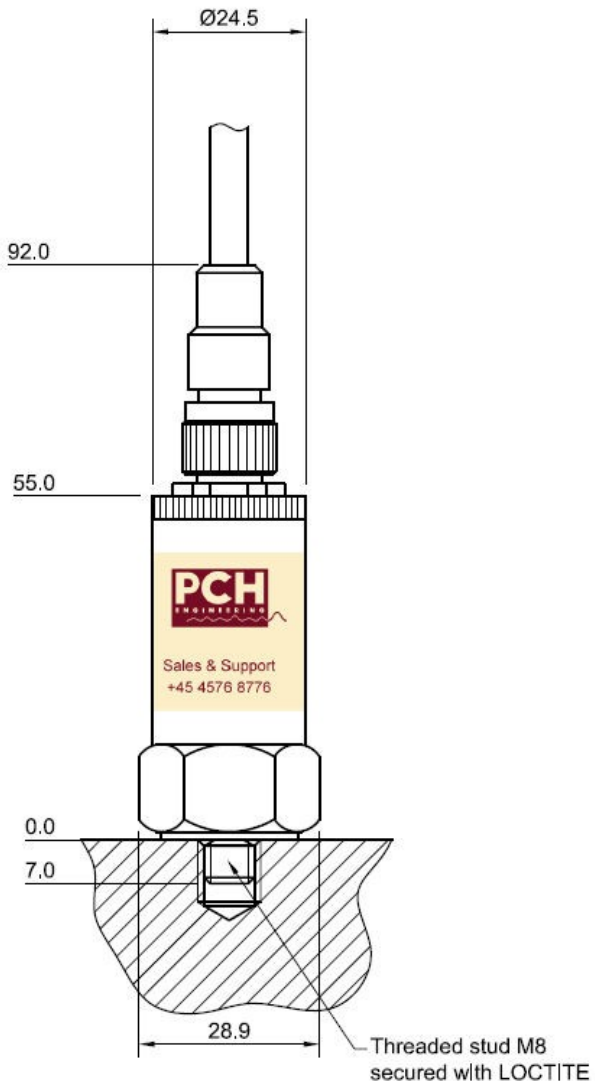
Cable colours	Function PCH 1106 Mk2
Brown (1)	+ 18-30 VDC Power Supply
Blue (3)	- Ground (common)
Black (4)	Output 4 – 20 mA (Vibration)
White (2) (Options)	A) Output 1–5 VDC (Vibration) B) Dynamic Output (100 mV/g) C) Output 4 - 20 mA (0-100 °C)
Screen	CHL-Cables have screen connected to sensor housing
(Note: PCH 1106 Mk1: A) Output 1-6 VDC)	

Loop power is not needed. The output should be connected to a passive input module.

PCH 1106 top connector M12:



Dimensions:



For further technical details please see Product Information sheet CHF 1124.

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