

The laser trigger / RPM sensor (in short: sensor) is used as trigger for vibration measurements and for RPM measurements using a PRUFTECHNIK measurement data collector.

SAFETY INFORMATION

- Read these instructions carefully prior to use.
- Use original accessories only.
- Do not use defective sensors.
- Do not open the housing.
- Prior to the installation of measuring components, switch off the machine and secure it against restarting according to the applicable regulations.
- Comply with the applicable safety regulations when performing measurements on machines.
- Check that the measuring setup can move freely prior to restarting the machine. Avoid contact of the measuring setup with rotating machine parts. Risk of injury and property damage!
- For storage and transportation, short-circuit the magnetic pole at the stand using the washer supplied.
- The sensor is in compliance with the relevant European Directives. The complete Declaration of Conformity is available at www.pruftechnik.com/certificates.

INSTALLATION

- Switch the machine off and secure it against unintentional restarting.

Mount sensor to stand:

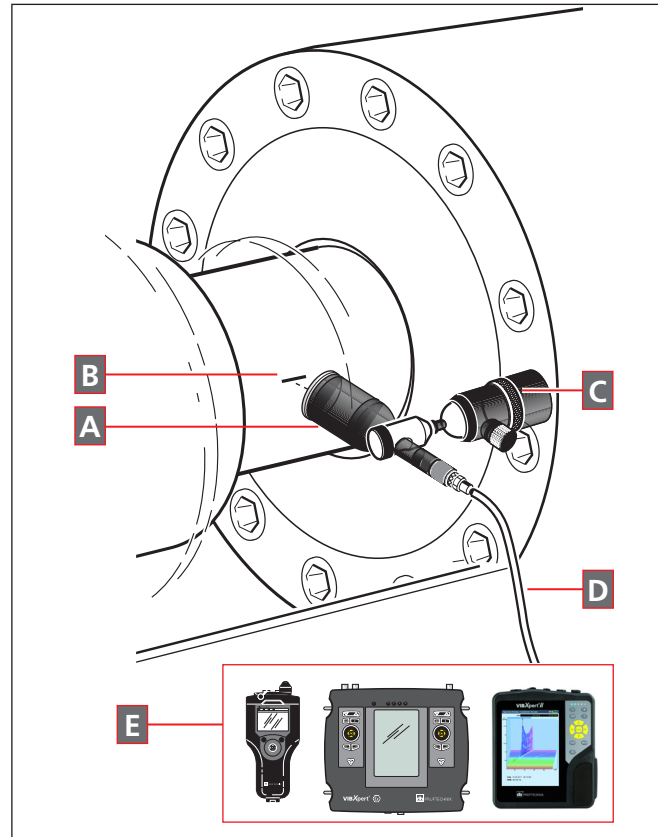
- Guide the sensor mount through the clamping device, until the knurled nut is centered above the mount.
- Hand-tighten the knurled nut.



Mount stand to machine:

- Select a suitable position on the machine according to the following criteria: Cleanliness, magnetic properties, permissible measuring distances, minimum diameter for curved surface: 40 mm.
- Carefully place the magnetic base with one edge first to avoid high impact loads.
- Attach the measuring mark to the machine shaft.
- Using the cable, connect the sensor to the measuring device.

Typical setup



- A:** Sensor VIB 6.631 / VIB 6.631 EX
B: Measuring mark (reflective foil VIB 3.306, contrast mark)
C: Stand VIB 6.632
D: Connection cable VIB 5.432-2.9
E: VIBXPERT II, VIBXPERT EX, VIBSCANNER, VIBSCANNER EX

Operation and area of application

	VIB 6.631	VIB 6.631 EX
Measuring device	VIBXPERT II, VIBSCANNER	VIBXPERT EX, VIBSCANNER EX
Area of application		

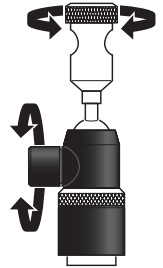
ADJUSTMENT

- Align the sensor with the laser to the measuring mark.
- Switch on the laser as follows for adjustment purposes:
 - In "Balancing" operating mode, switch on the laser via the dialog menu on the measuring screen.
 - In "Multimode" operating mode, start a RPM measurement, or activate the "Coast-down Analysis" measuring task. The laser switches on automatically.

CAUTION!

Do not look into the laser beam! Risk of eye injury!

- Unlock the ball joint at the stand.
- Rotate and tilt the fixture, until the laser beam hits the measuring mark. To achieve stable signals, align the sensor with a slight angle to shaft surface and shaft axis.
- Lock the ball joint.



Measuring distances and angle range

