

OPERATING AVL 365C

- 1 Mount interface flange on the crank shaft. Permissible radial and lateral runout error of flange centering and inner mounting face less than 0.1 mm (measured statically – with crank shaft turned manually).
- 2 Create vibration-resistant mounting for support to engine block (with specified axial and radial clearances).
- 3 Secure the flange of the Optical Encoder with 3 • M5 screws (tightening torque 7 Nm). Only use the screws provided!
- 4 If necessary, position the Angle Encoder trigger at a specific crank shaft position. Proceed as described under “Static Assignment 365C” in the operating manual.

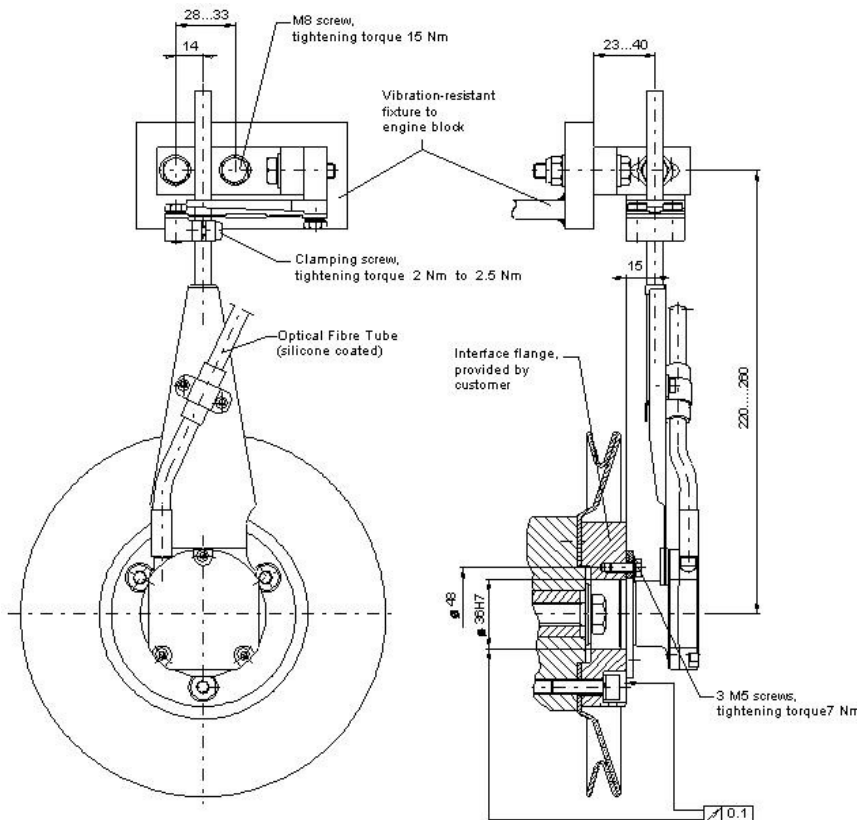


Figure: Mounting the AVL Angle Encoder 365C



- 5 Push the support onto the supporting arm and secure with 2 M8 screws. Screw the adjusting sleeve into the safety hook and adjust the support so that the spring sheet lies parallel with the safety hook (measurement 7 ± 0.5) and the supporting arm sleeve protrudes from the adjustment sleeve in a centered position! Tighten the clamping screw with 2 to 2.5 Nm and all the M8 screws with 15 Nm. Check the adjusting sleeve again after tightening the screws and then remove it. The support can also be rotated around the support arm axis and fixed in any position. See also "Mounting the Support Arm and Support" in the operating manual.
- 6 Remove the adjusting sleeve after adjusting the support.
- 7 Mount the optical transmitter and the transmitter electronics vertically. Flexible fiber optics hose and cable should be laid in such a way that they cannot be subjected to strain and the transmitter electronics can be positioned as far away as possible from potential interference sources such as ignition systems or dynamometers. See also "Mounting and Connecting the Transmitter Electronics" and "Mounting the Transmitter Electronics" in the operating manual.

Information

When the transmitter electronics is mounted there must be no electrical contact with test bed ground. Use the special pipe clamp provided to secure the transmitter electronics in the test bed area!

- 8 Connect the transmitter electronics with the connecting cable to a pulse converter / multiplier, indicating device of the Advanced series or IFEM CDM INTERFACE, see "Connection diagram for 365C / 365X" in the operating manual (the cables can be joined serially (cascaded) up to a length of 30 m maximum).
- 9 Position the pulse converter / multiplier as far away as possible from interference sources and ensure that it is mounted insulated (i.e. no electrical contact with the test bed ground).
- 10 Connect the pulse converter / multiplier to the evaluation device.
- 11 Select the settings on the pulse multiplier. See also "Settings" in the operating manual.