



OPERATING AVL 365X

- 1 Mount the marker disk (see "Mounting of Marker Disk 365X" in the operating manual).
- 2 Mount vibration-resistant support on the engine block for Optical pick up 365X.
- 3 Secure the Optical pick up 365X with 2 • M8 screws (tightening torque 10 Nm) or M6 (tightening torque 7 Nm). See "Mounting and Connection of Optical Encoder 365X" in the operating manual.

Information

Check the position of the optical pick up in relation to the marker disk!

- 4 The picture on the Optical Pick Up 365X shows the installed position. The arrow should point in the direction of the crank shaft axis (tolerance $\pm 2^\circ$). The marker disk should protrude 7 to 8 mm into the pick up. The pick up should be positioned in the axial direction in such a way that it cannot come into contact with the marker disk during operation.
- 5 Mount a guard over revolving parts (i.e. marker disk together with fixing flange).

Danger

The AVL Angle Encoder 365X must not be operated without a protection guard!

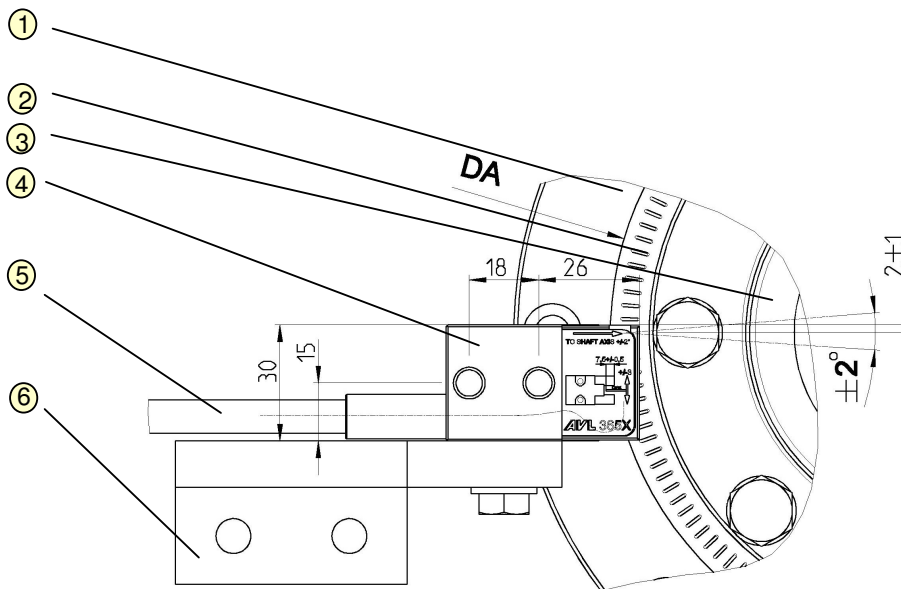
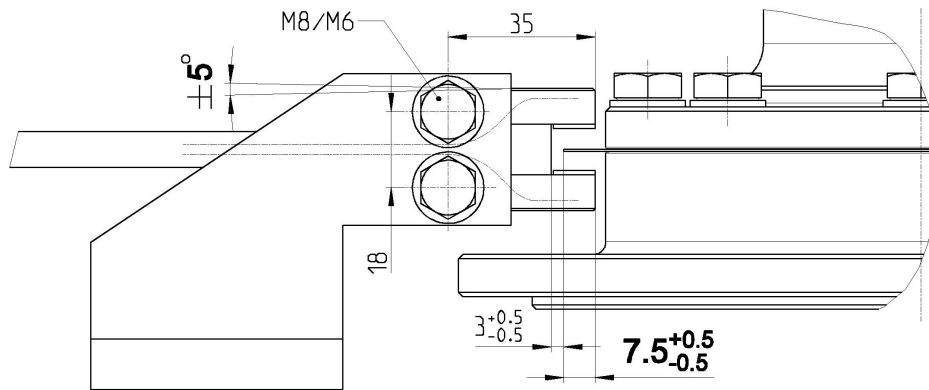
- 6 Mount the Optical Transmitter and the transmitter electronics vertically. The flexible optical fibre hose and cable should be laid in such a way that they cannot be subjected to strain and the transmitter electronics can be positioned as far away as possible from potential interference sources such 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 pipe clamp provided to secure the transmitter electronics in the test bed area!

- 7 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 (cables can be connected serially (cascaded) to a length of 30 m maximum).
- 8 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).
- 9 Connect the pulse converter/multiplier to the evaluation device.

10 Select the settings on the pulse multiplier. See also “Settings” in the operating manual.



- 1 Adapter to Flywheel
- 2 Marker Disk 365X
- 3 Drive shaft (link from engine to dynamometer)
- 4 Optical pick up 365X
- 5 Flexible tube, bending radius at least 30 mm
- 6 Support between engine block and optical pick up (to be manufactured by user)

Figure: Mounting the AVL Angle Encoder 365X