



1. Control of the eccentricity of the shaft of an electrical tooth brush

The frequency as well as the amplitude of the eccentric of an electric tooth brush should be controlled. The amplitude lies in the range of one millimeter and the frequency in the range of around one hundred hertz. With the control electronic in connection with the laser analog fork light barrier type **A-LAS-F12-1x0.2-50/50** the amplitude of the eccentric can be determined. Furthermore the control electronic delivers a digital signal which informs about the eccentric frequency. The laser sensor has an aperture of 1mm x 0.2mm and the control electronic comes with a scan frequency of 10 kHz. As shown in the screen shots the laser system is sufficient precise and fast enough for this application.

