



1. Spiral position control on a filament

The position of the spiral coil on a filament for the light bulb industry must be controlled. There are two different types of spirals, different in gapping, on the filament. The speed of the filament is approximately 0.02 m/s, the diameter of the filament is dependent of the type (min. 0.3mm and max. 1.5mm) and the maximum gapping of the spiral is 1mm. For the investigations a laser fork light barrier type **A-LAS-F08-3x0.75-40/50** in connection with an **A-LAS-CON1** control electronic was used. A proper detection of the position of the respective spiral coil was possible, as shown in the screen shots.

