



1. Inline diameter control of wooden staff

During the production of wooden staff the diameter must be controlled while the rod is moved. For this purpose two laser fork light barriers type **A-LAS-F12-0,5x4-50/50** in connection with an **A-LAS-CON1** control electronic are in use. At this the object will be moved through both laser light curtains and as long as the laser spot of the left laser light barrier (CH A) is covered to e.g. 50% the signal from the right laser light barrier (CH B) will be evaluated with the software of the **A-LAS-CON1** electronic. The **A-LAS-CON1** informs, whether the object is in the tolerance range (digital output). Furthermore, the controller delivers an analogue signal, which is proportional to the diameter of the object. Due to the high internal scan rate of the system (approximately 40 kHz) a fast movement of the wooden staff is possible and does not reduce the accuracy.

