



1. Pin height control of electrical components

The height of the pins of an electrical component should be controlled. For the height control a laser through beam system type **A-LAS-F12-1x0.2-50/50** in connection with an **A-LAS-CON1** control electronic is used. Here the laser beam is aligned in a way that all pins can be detected, in other words, the laser beam is not perpendicular to the transport direction of the component but slightly tilt. The software of the **A-LAS-CON1** is parameterized in this case with the self-trigger function. As long as the trigger is active, the software is searching for the minimum value of the analogue signal. The minimum value will be stored and sent at the end of the trigger window to the analogue output of the controller. Furthermore the minimum value will be checked, whether it is in the tolerance range or not and a digital signal is available at the digital output of the control electronic. The control electronic comes with a scan frequency of approximately 40 kHz.

