



### 1. Detection of a brand name on fog light glasses

A logo should be detected on a fog light glass. It has been shown that the brand name in the glass is acting like an optical sensor component and deflects the laser beam in a different way compared to the normal glass surface. The laser beam falls onto the black surface of the lamp casing and the laser spot will be projected onto the line scan detector of a laser displacement sensor. For this purpose a laser displacement sensor type **L-LAS-LT-157-CL** is used. At this, the distance of the laser sensor to the glass is approximately 70mm and the angle of the optical axis to the horizontal is around 30°. As shown in the screen shots, the brand name can be proper detected.

