

1. Detection of clear and milky glass bottles

In the glass industry during the process of glass bottle manufacturing for the pharmaceutical industry, the glass bottles must be coated inside. The task is to check, whether the bottle is coated or uncoated. Coated glass bottles are milky shortly after the spraying process, thus with a through beam sensor, the difference between coated and uncoated glass bottles can be figured out. For this application a **SPECTRO-3-FIO** color sensor in combination with a through beam optical fiber type **D-S-A2.0-(2.5)-1200-67°** and two optical frontends type **KL-M18-A2.0** are used. As shown in the screen shots, the milky glass bottle can be properly distinguished from the clear glass bottle. The distance from the optical frontend to the bottles is approximately 20mm, respectively.

