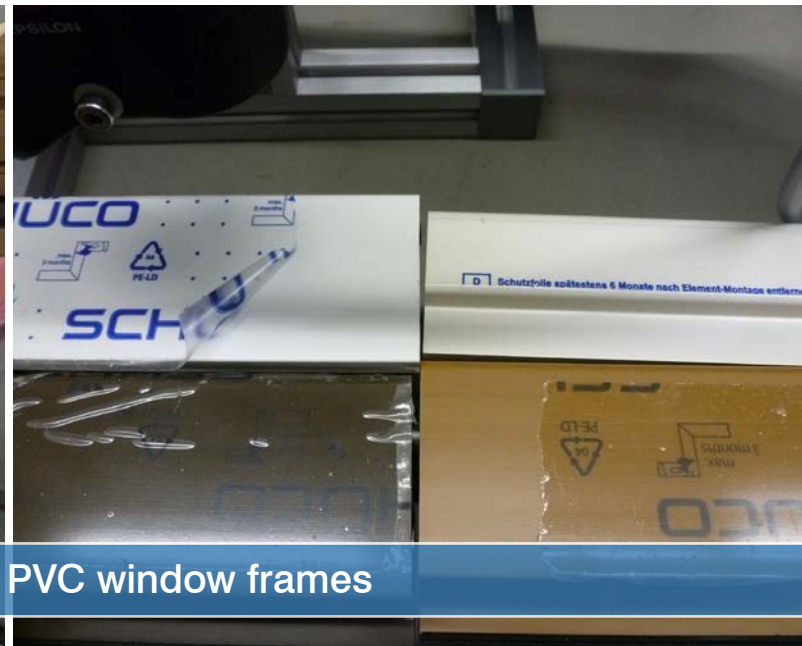
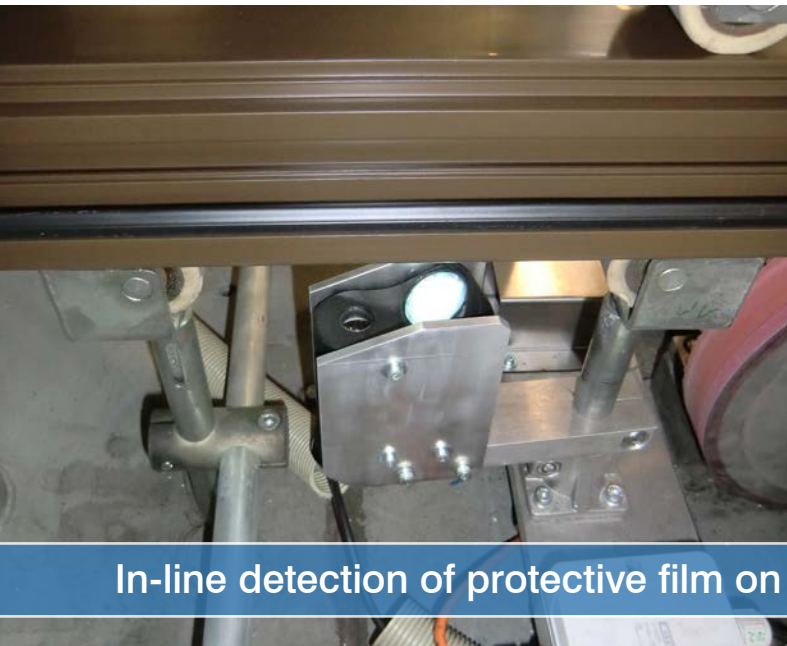


A250

Inline colour measurement system **colorCONTROL**



In-line detection of protective film on PVC window frames

Company „Schüco“ manufactures PVC window frames. The PVC profiles are provided with a protective film after they are extruded. This film protects the frames from scratches and dirt. The colorCONTROL ACS7000 colour measurement system checks if the protective film has been applied correctly. The system detects the exact colour difference based on spectral colour measurement. Although the film is transparent, the colour of the window frames alters after the film has been applied. The film causes a minimal colour difference of $\Delta E = 0.1$.

Advantages

Process reliable recognition of whether the film has been applied to the window profile. If the film is missing, the production plant is stopped. The colour measurement system ensures that no profile leaves the extrusion line without having a film applied.

Requirements for the measurement system

- Measurement distance: 50 mm
- Accuracy $\Delta E = 0.08$
- Bandwidth 390-780 nm
- Measurement rate max. 2 kHz

Ambient conditions

- Operating temperature 0-45 °C
- Protection class Controller: IP40
- Protection class Sensor: IP64

System design

- colorCONTROL ACS7000
- Reflection sensor head FCS-T-ACS1-30/0-50-1200

