

1. Differentiation of threads on an airbag textile

Different colored threads must be differentiated. At this a color sensor type **SPECTRO-3-FIO-CL** in connection with an optical fiber type **R-S-A2.0-(2.5)-1200-67°** and an optical frontend type **KL-M34/62-A2.0** are used. The distance from the frontend to the object is approximately 160 mm and the spot size at this distance is around 3 mm. As shown in the screen shots the threads can be proper detected as well as distinguished. The screenshots shows light gray and light blue airbag textiles with gray and green-gray threads. At this the light gray and the light blue background as well as the gray and the green-gray thread must be taught. For the green-gray thread a color group is necessary. Furthermore the **MIN DIST** mode is used for this application.

