1. Color control of two different seams on two different leather imitations

The task is to detect whether the seam is present on the leather imitation or not.
There are two different colored leather imitations, beige and gray, respectively a beige thread as well as a gray thread. But there is
only the combination **beige leather imitation + beige seam** and
gray leather imitation + gray seam possible.
For this application we used a **SPECTRO-3-FIO-CL** color sensor in combination with a fiber optics type **R-S-R2.1-(6x1)-1200-67°.** There is a proper difference between the leather imitation with and without the seam. 0 = gray with gray seam, 1 = gray without the gray seam, 2 = beige with beige seam and 3 = beige without the beige seam.
The distance from the optical front-end to the object is approximately 10 mm and the spot size of the white light is about 8 mm x 3 mm.