

# FIO Series

## ▶ KL-8-N-R2.1

### Optical frontend with guide groove

- Optical frontend for reflected light fiber optics R-S-R2.1-(6x1)-... (fiber optics is available in various versions)
- Guide groove as an adjustment aid
- Working distance typ. 8 mm ... 25 mm
- Focusing onto a small light spot (spot diameter at a distance of 11 mm: typ. 4 mm x 0.7 mm)
- Color measurement of small objects at a relatively big distance
- Scratch-resistant glass optics
- Sturdy aluminum housing, anodized in black



**Design**

### Product name:

**KL-8-N-R2.1**

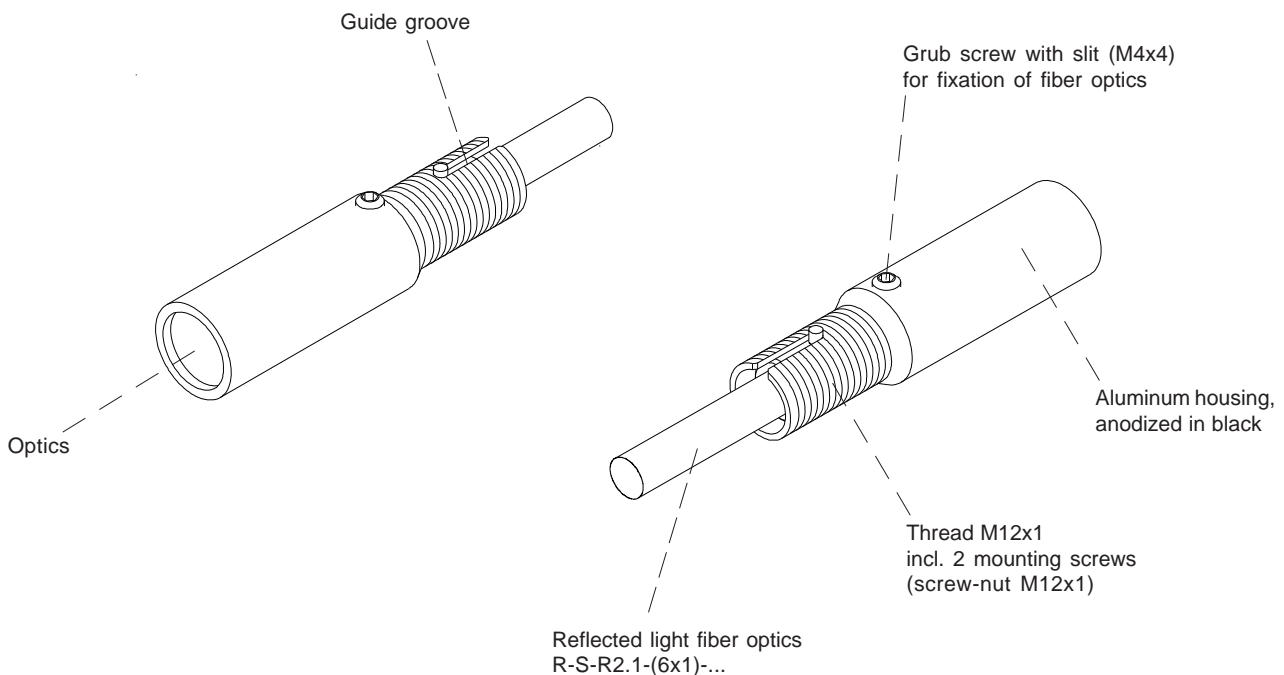
Suitable for fiber optics (please order separately):

**Reflected light fiber optics**

R-S-R2.1-(6x1)-(length)-67°

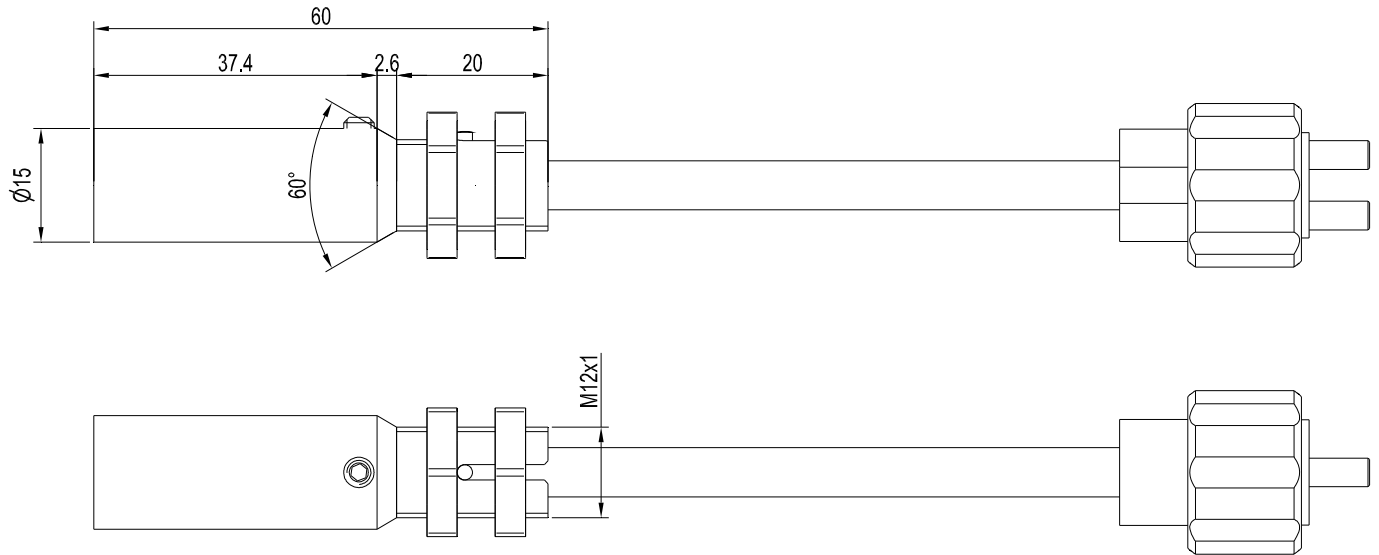
R-S-R2.1-(6x1)-(length)-22°

(standard lengths for fiber optics: 600 mm or 1200 mm)



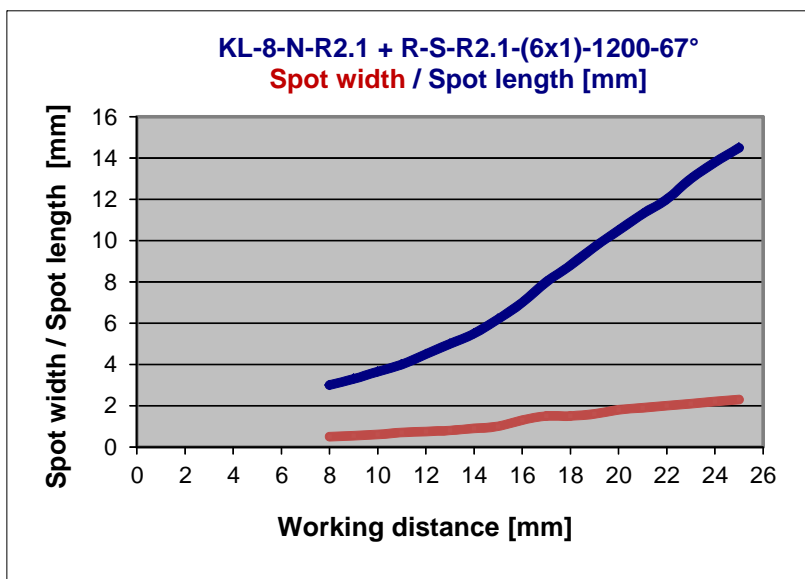
**Dimensions**

**KL-8-N-R2.1**



All dimensions in mm

**Light Spot Sizes**



**KL-8-N -R2.1 with R-S-R2.1-(6x1)-1200-67°:**

**Light spot sizes:**

- At a working distance of 8 mm: (typ.) 3 mm x 0.5 mm
- At a working distance of 11 mm: (typ.) 4 mm x 0.7 mm
- At a working distance of 15 mm: (typ.) 6 mm x 1 mm
- At a working distance of 17 mm: (typ.) 8 mm x 1.5 mm
- At a working distance of 22 mm: (typ.) 12 mm x 2 mm