

# FIO Series

## ▶ KL-8-R2.1

### Optical frontend

- Optical frontend for reflected light fiber optics R-S-R2.1-(6x1)-... (fiber optics is available in various versions)
- 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-R2.1

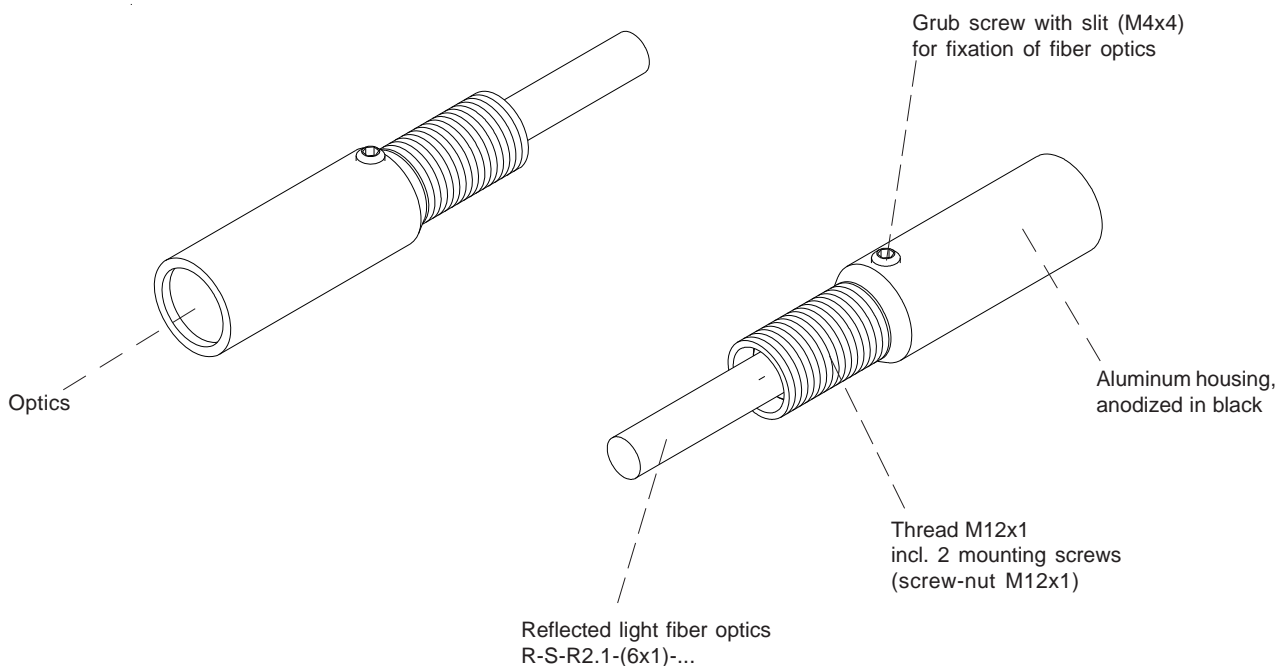
Suitable for fiber optics (please order separately):

#### Reflected light fiber optics

R-S-R2.1-(6x1)-(length)-67°

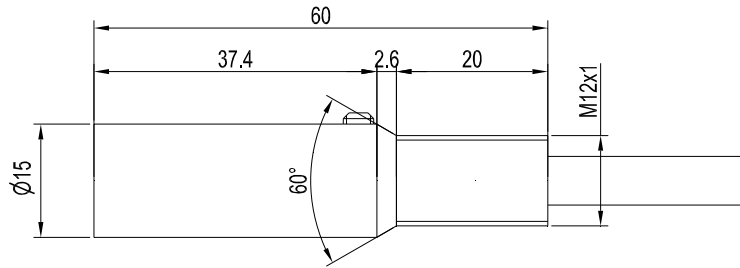
R-S-R2.1-(6x1)-(length)-22°

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



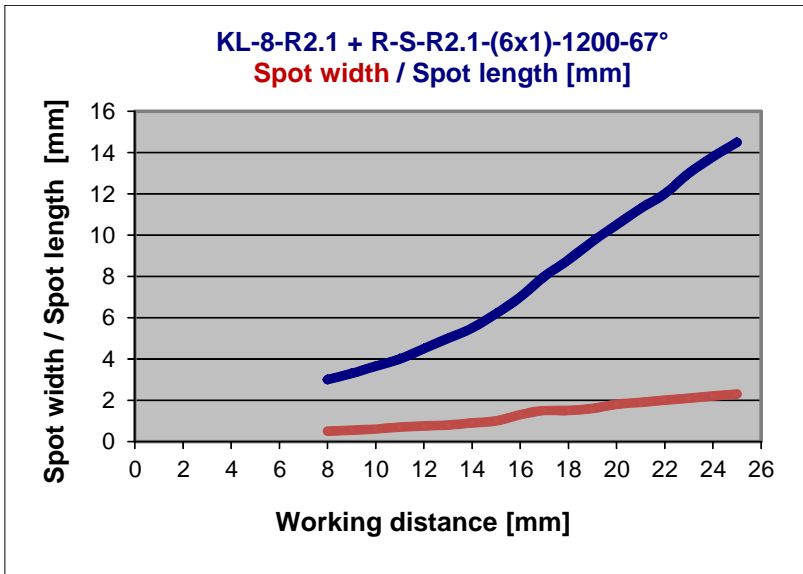
**Dimensions**

**KL-8-R2.1**



All dimensions in mm

**Light Spot Sizes**



**KL-8 -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

**Accessories**

**KL-8-OFL**

Top-part for eliminating extraneous light

For use with:

optical frontend KL-8-R2.1 in connection with a reflected light fiber optics R-S-R2.1-(6x1)-... or optical frontend KL-9-A3.0 in connection with a reflected light fiber optics R-S-A3.0-(3.0)-...



**KL-8-OFL**  
mounted on optical frontend  
KL-8 or KL-9