

# TLB Series

## ▶ **SLB-04**

### Split light barriers

- Insensitive to outside light due to optical filtering
- Connection either to constant light amplifier or pulsating light amplifier
- Oil resistant connecting cable
- High resolution
- Scratch-resistant optics cover made of glass
- Sturdy metal housing

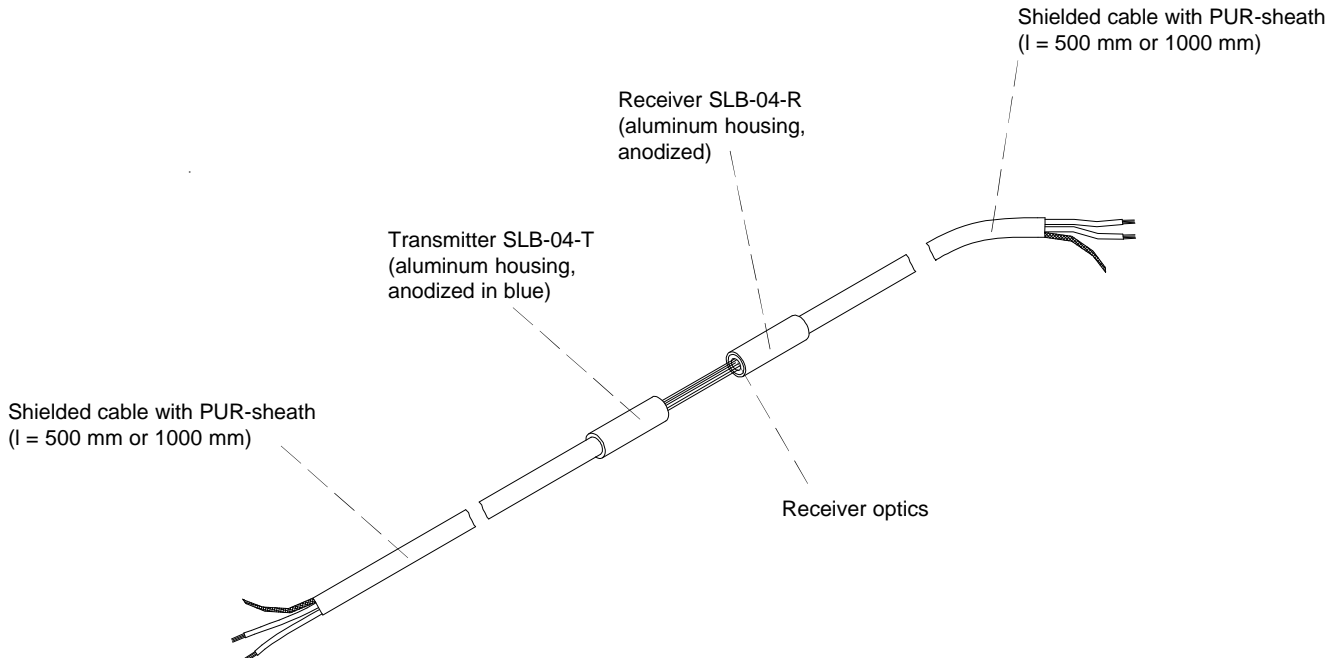


## Design

### Product name:

**SLB-04-500** (transmitter SLB-04-T, receiver SLB-04-R, cable l=500 mm)

**SLB-04-1000** (transmitter SLB-04-T, receiver SLB-04-R, cable l=1000 mm)



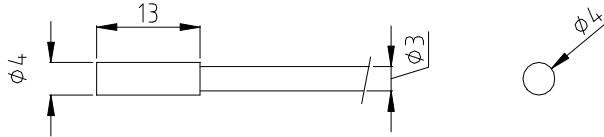

**Technical Data**

|   |  |
|---|--|
| <b>Model</b>                                    | <b>SLB-04</b>  |
| Transmitter                                     | IR-LED, 905 nm, DC operation: max. opt. power < 0,4 mW, AC operation: medium opt. power < 0,4 mW |
| Minimum detectable object                       | typ. 50 µm (DC operation)<br>typ. 300 µm (AC operation)  |
| Light spot dimension<br>(at transmitter output) | typ. Ø 1.5 mm  |
| Repeatability                                   | typ. 10 µm (DC operation)<br>typ. 100 µm (AC operation)  |
| Maximum range                                   | typ. 80 mm (DC operation)<br>typ. 400 mm (AC operation)  |
| Optics  | collimated, beam divergency typ. 100 mrad  |
| Optical filter                                  | Daylight rejection filter RG715  |
| Ambient light                                   | up to 5000 Lux (AC operation)  |
| Cable type                                      | PUR sheath, black, shielded  |
| Cable length                                    | 500 mm or 1000 mm  |
| Mechanical protection                           | IP67   |
| Connector type                                  | open wires   |
| Operating temperature range                     | -20°C ... +80°C  |
| Storage temperature range                       | -20°C ... +85°C  |
| Housing   | Aluminum, anodized in blue   |
| Housing dimensions                              | cylindrical shape: length 13 mm, Ø 4 mm (see page 3)   |
| EMC test acc. to                                | IEC - 801...   |



**Dimensions**

SLB-04-T (transmitter) and  
SLB-04-R (receiver)



(All dimensions in mm)



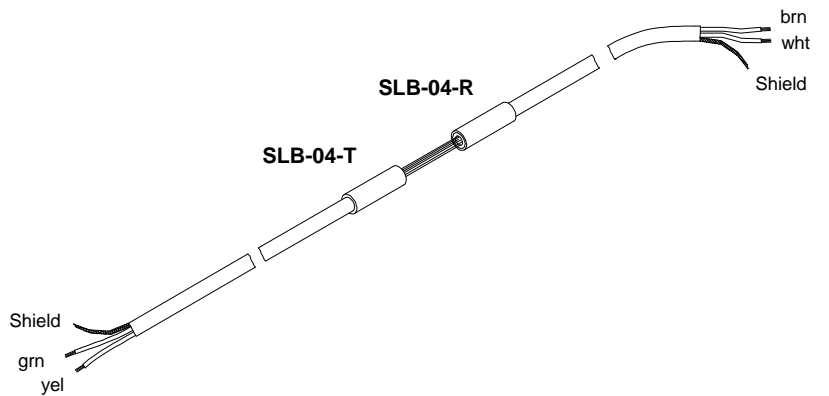
**Connector Assignment**

**Pin assignment SLB-04-T (transmitter)**

| Color: | Assignment: |
|--------|-------------|
| Green  | Anode       |
| Yellow | Cathode     |
| Shield |             |

**Pin assignment SLB-04-R (receiver)**

| Color: | Assignment: |
|--------|-------------|
| Brown  | Collector   |
| White  | Emitter     |
| Shield |             |



**Product Line**

Fork light barriers:

FKB-06-...  
FKB-06-...-P  
FKB-06-...-TPN  
FKB-06-...-TPO

FKB-06-...-BL  
FKB-06-...-BL-P  
FKB-06-...-BL-TPN  
FKB-06-...-BL-TPO

FKB-08-...  
FKB-08-...-P  
FKB-08-...-TPN  
FKB-08-...-TPO

FKB-08-...-BL  
FKB-08-...-BL-P  
FKB-08-...-BL-TPN  
FKB-08-...-BL-TPO

Split light barriers:

SLB-01  
SLB-01-P  
SLB-01-TP

SLB-02  
SLB-02-P  
SLB-02-TP

SLB-03  
SLB-03-P  
SLB-03-TP

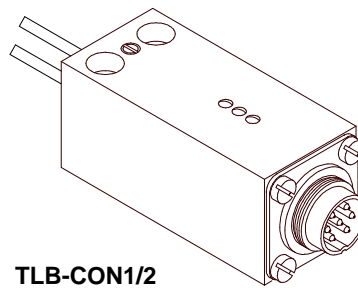
**SLB-04**  
SLB-04-P  
SLB-04-TPN  
SLB-04-TPO

SLB-05  
SLB-05-P  
SLB-05-TPN  
SLB-05-TPO

SLB-06  
SLB-06-P  
SLB-06-TP

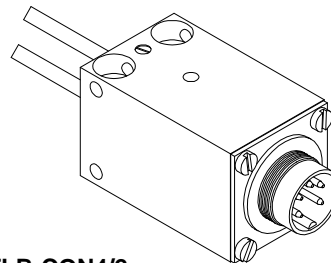
SLB-08  
SLB-08-P  
SLB-08-TP

Amplifiers in tool plug housing:



TLB-CON1/2

Connecting cable:  
cab-las-agl7 (2m)



TLB-CON4/2

Connecting cable:  
cab-agl5 (2m)