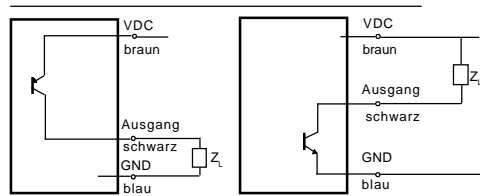


- GLS05R-BP - GLS05R-BN
- GLS10R-BP - GLS10R-BN
- GLS20R-BP - GLS20R-BN
- GLS30R-BP - GLS30R-BN
- GLS50R-BP - GLS50R-BN
- GLS80R-BP - GLS80R-BN
- GLS120R-BP - GLS120R-BN
- GLS180R-BP - GLS180R-BN
- GLS220R-BP - GLS220R-BN

Betriebsspannung	10 ...30 VDC, verpolungsfest
Eigenstromverbrauch	< 35mA
Lichtart	Rot 644 nm
Funktionsprinzip	getaktet
Schaltfrequenz	1500Hz - 3000Hz (Gabelweite 05 und 10)
Schaltfunktion	hell- oder dunkelschaltend, wählbar
Signalanzeige	LED rot, im Steckverbinder
Empfindlichkeitseinstellung	Potentiometer 270°
Ausgang	PNP (BP/R) oder NPN (BN/R)
Ausgangsstrom	max. 200 mA, kurzschlussfest
Schaltverzögerung	max. 0,4 ms
Gehäusematerial	Aluminium, eloxiert
Temperaturbereich	-10° ... +60° C
Schutzart	IP 65

### Anschluss-Schemata

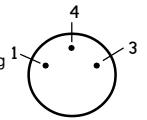


#### Achtung!

Gerät nur an Gleichstromquelle im Bereich 10...30 VDC anschließen!  
 Kabel nicht parallel zu Starkstromleitungen verlegen!  
 Wenn die rote LED blinkt, so ist keine ausreichende Sicherheitsreserve gegeben.

### Ein-/Ausgang

- 1 (braun) + VDC
- 4 (schwarz) signal Ausgang
- 3 (blau) - GND

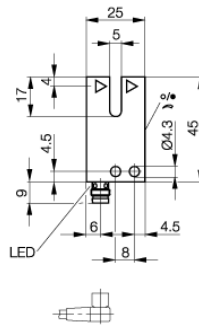


#### Vorsicht!

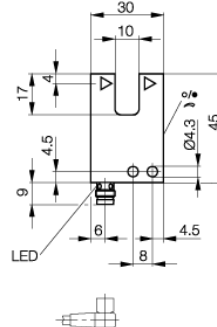
Dieses Produkt nur für die Objekterkennung zugelassen. Verwenden Sie den vorliegenden Sensor nicht im Bereich Personensicherheit!

### Abmessungen

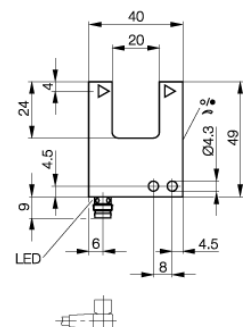
GLS 05



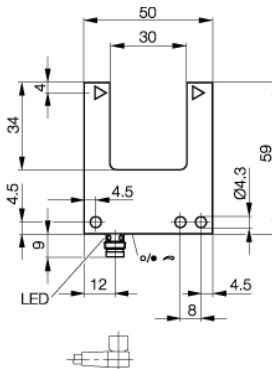
GLS 10



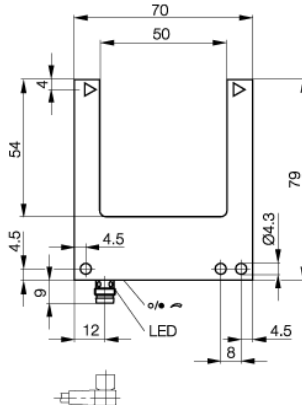
GLS 20



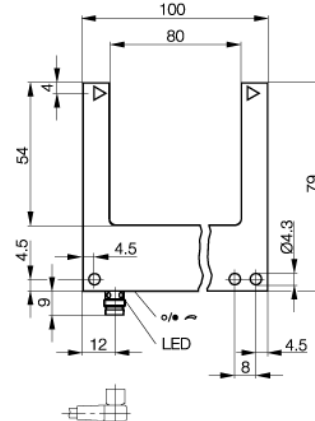
GLS 30



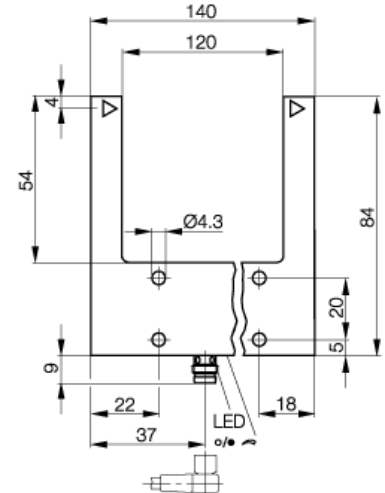
GLS 50



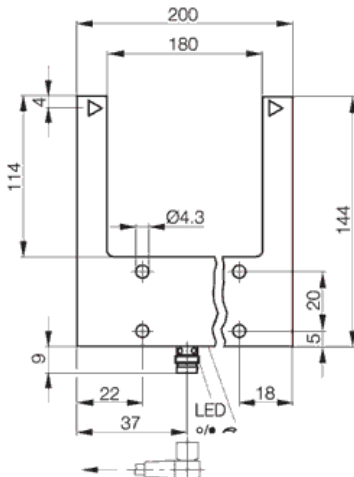
GLS 80



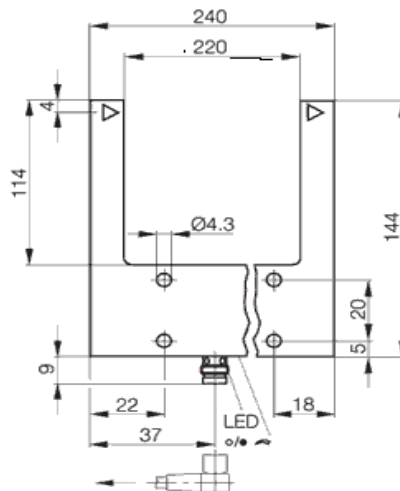
GLS 120



GLS 180



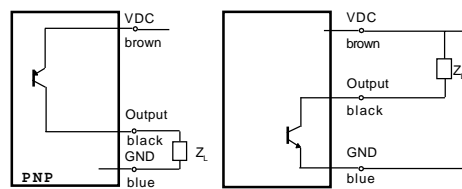
GLS 220



- GLS05R-BP - GLS05R-BN
- GLS10R-BP - GLS10R-BN
- GLS20R-BP - GLS20R-BN
- GLS30R-BP - GLS30R-BN
- GLS50R-BP - GLS50R-BN
- GLS80R-BP - GLS80R-BN
- GLS120R-BP - GLS120R-BN
- GLS180R-BP - GLS180R-BN
- GLS220R-BP - GLS220R-BN

Operating Voltage	10 ...30 VDC, reverse polarity protection
Current Consumption	< 35mA
Light Type	visible red 644 nm
Functional Principle	pulsed light
Frequency Response	1500Hz 3000Hz (with widths of 05 and 10)
Switching Function	light-on and dark-on, selectable
Function Indicator	red LED, in connector
Sensitivity Adjustment	potentiometer 270°
Output	PNP (BP/R) or NPN (BN/R)
Output Current	max. 200 mA, short circuit proof
Response Time	max. 0,4 ms
Housing Material	aluminium, anodized
Operating Temperature	-10° ... +60° C
Protection Class	IP 65

### Wiring and Connection

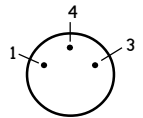


#### Attention!

Connect sensor to 10 ... 30VDC only!  
Do not lay supply cable parallel to a power line!  
If red LED blinks, then the signal is unstable.

### In-/Output

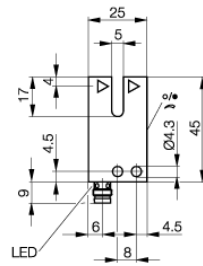
- 1 (brown) + VDC
- 4 (black) signal output
- 3 (blue) - GND



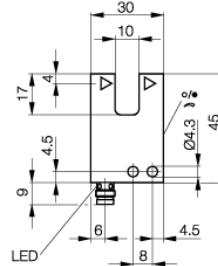
#### Caution!

This product is only specified to detect objects.  
Do not use for personell safety applications!

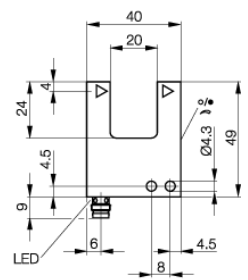
GLS 05



GLS 10

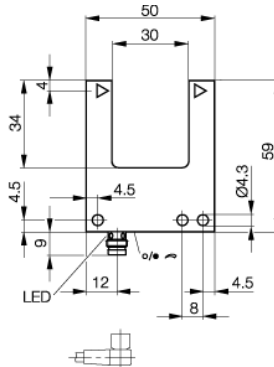


GLS 20

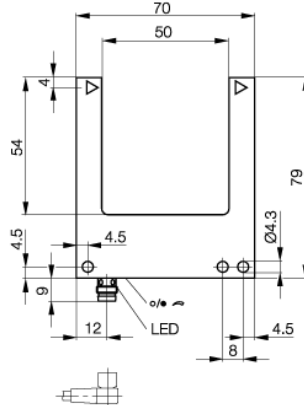


### Dimensions

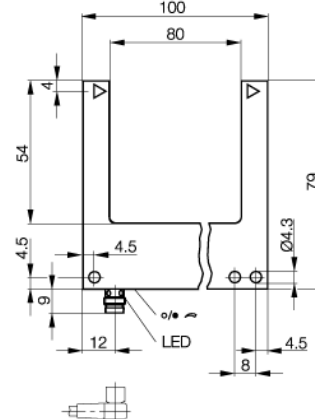
GLS 30



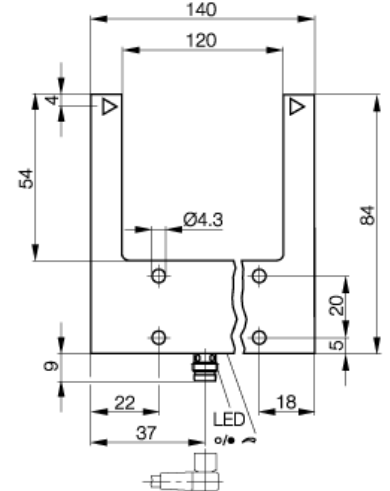
GLS 50



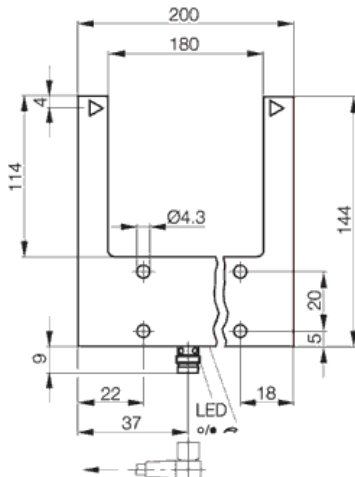
GLS 80



GLS 120



GLS 180



GLS 220

