

Special Sensors

▶ CD-LAS-63

for Counting of CDs

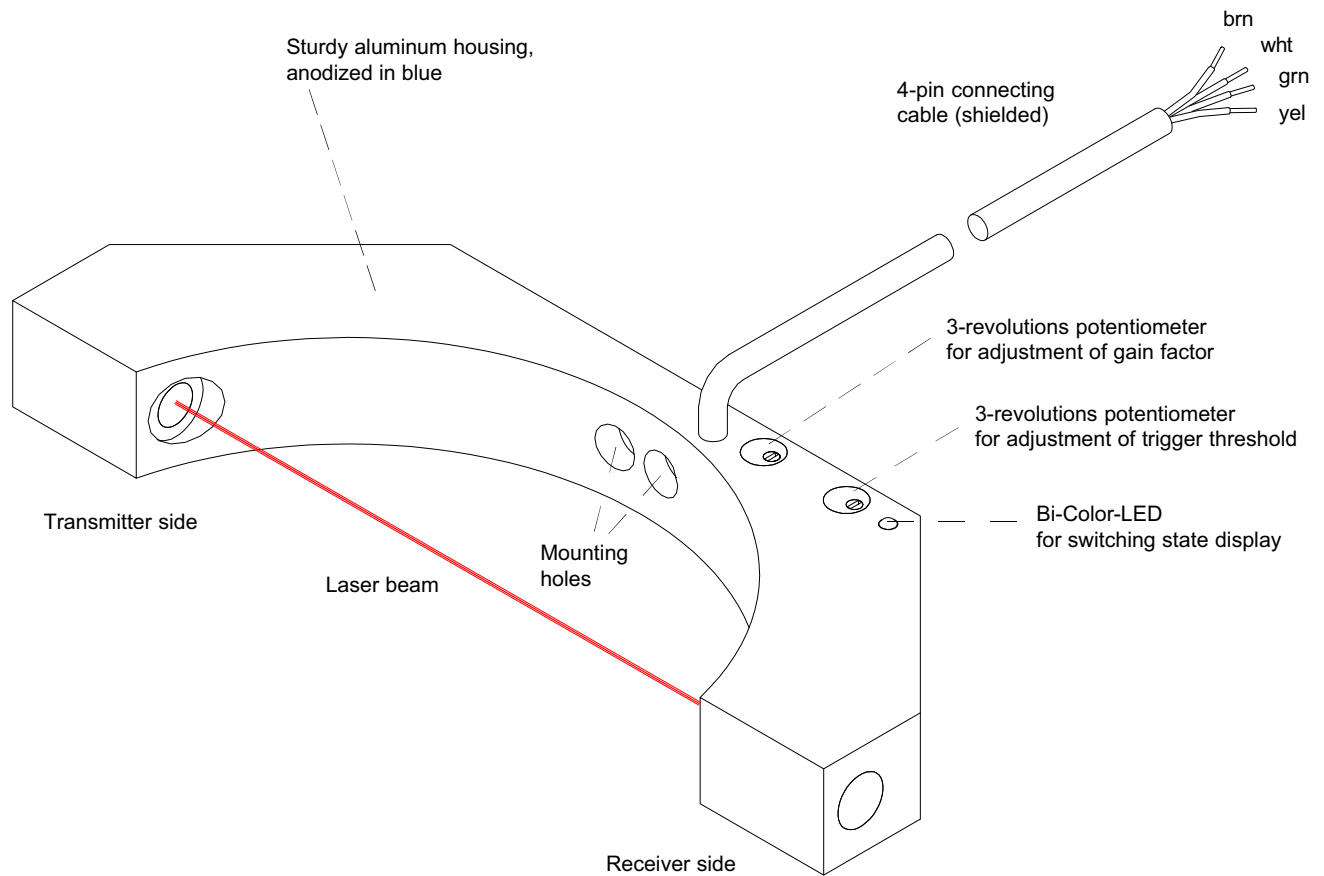
- High switching frequency (25 kHz)
- Insensitive to outside light by means of interference filter and polarisation filter
- Monitoring output (0V ... 10V)
- Digital output (npn dark-switching, pnp bright-switching)
- Sturdy aluminum housing, IP67 type of protection
- Switching state display
- Flexible and shielded connecting cable



Design


Product name:

CD-LAS-63





Technical Data

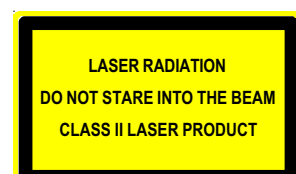
Model	CD-LAS-63
Laser	Solid state laser, 670 nm, DC operation, 1 mW max. opt. power, Laser class 2 acc. to DIN EN 60825. The use of these laser sensors therefore requires no additional protective measures.
Reproducibility	typ. 1‰ of aperture size
Optical filter	Interference filter + polarisation filter
Voltage supply	+12VDC ... +32VDC, protected against polarity reversal, overload protected
Pulsating light/direct light operation	DC-operation
Ambient light	up to 5000 Lux
Sensitivity setting (switching threshold)	adjustable by means of an integrated potentiometer (3 revolutions)
Amplifier gain (analog signal)	adjustable by means of an integrated potentiometer (3 revolutions)
Current consumption	typ. 90 mA
Size of aperture	4 mm x 0,5 mm
Monitoring output (analog output)	0V...+10V (typ. 100 kHz band width)
Type of protection	IP67
Operating temp. range	-20°C to +50°C
Storage temperature range	-20°C to +85°C
Housing material	Aluminum, anodized in blue
Housing dimensions	approx. 176 mm x 58 mm x 20 mm
Connecting cable	4-pin cable, outer jacket: PUR, 4 mm in diameter, shielded
max. switching current	100 mA, short-circuit-proof
EMC test acc. to	IEC - 801... 
Switching state display	by means of an integrated yellow/green-LED
Switching frequency	25 kHz



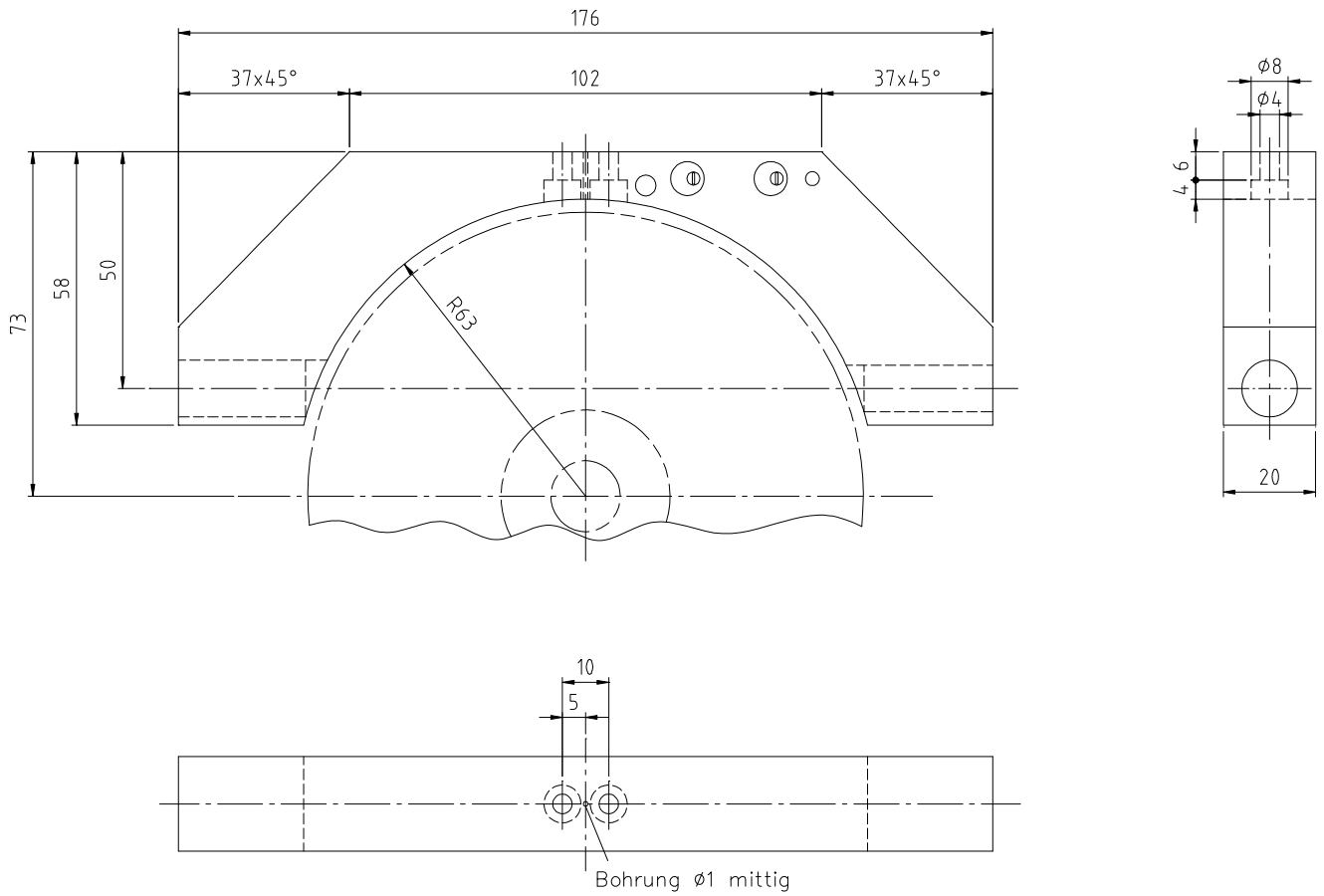
Laser Warning

The laser sensors CD-LAS-63 comply with laser class 2 according to EN 60825. The use of these laser sensors therefore requires no additional protective measures.

The laser sensors CD-LAS-63 are supplied with a laser warning label.

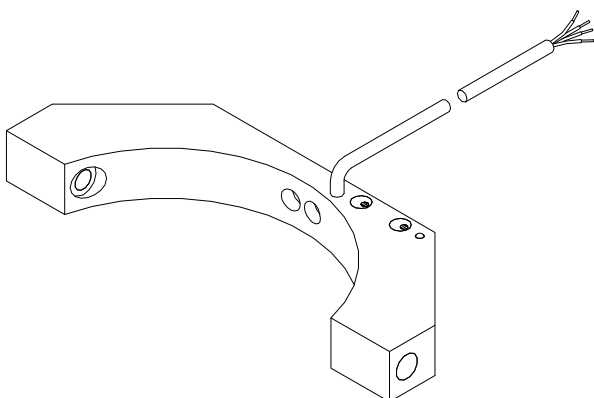


Dimensions



(All dimensions in mm)

Connector Assignment



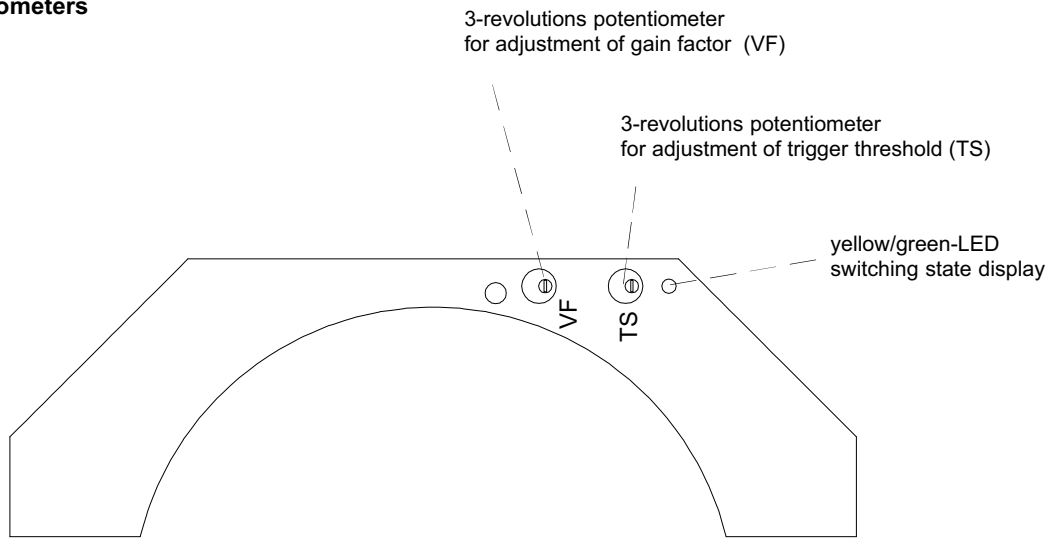
Pin assignment:

Color:	Assignment:
brn	+Ub (+12 ... +30VDC)
wht	GND (0V)
grn	OUTPUT (Q)
yel	ANALOG



Setting

Adjustment of potentiometers



VF Adjustment of gain factor (VF):
Rotation clockwise => Increase of gain factor

TS Adjustment of trigger threshold (TS):
Rotation clockwise => Increase of trigger threshold

LED display:

- yellow = covered (CD present)
- green = free (no CD present)



Application Photos

