

D-LAS Series

► D-LAS3

- Optics cover made of glass
- Various apertures available
- Switching output (npn or pnp)
- High reproducibility (in the μm -range)
- Sturdy housing made of brass, nickel-plated
- Compact M8-housing
- Insensitive to outside light



Design

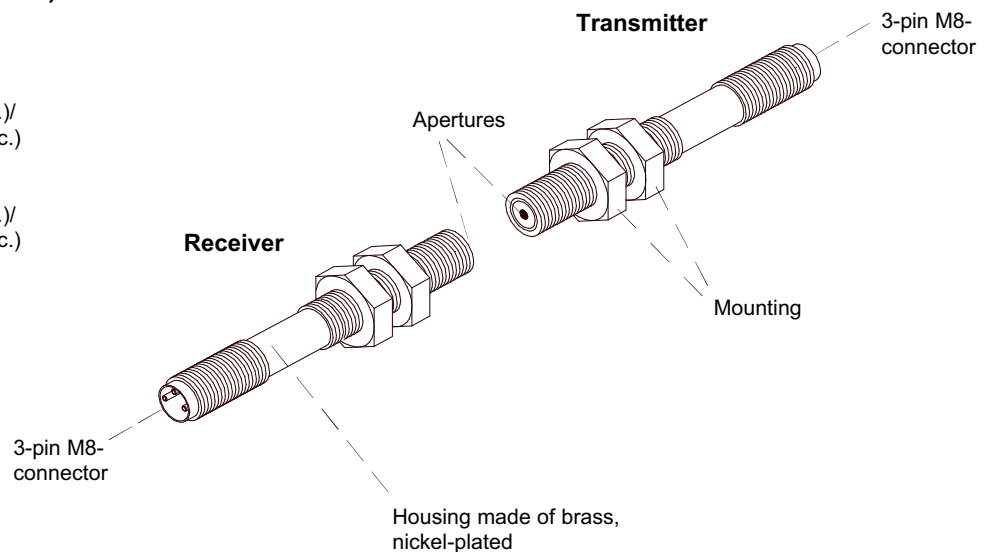
Product name:

Transmitter: D-LAS3-(aperture)*-T

**Receiver: D-LAS3-Q-(aperture)*-R
D-LAS3-Qinv-(aperture)*-R**

Q = Switching output:
npn dark-switching (npn n.o.)/
pnp bright-switching (pnp n.c.)

Qinv = Switching output:
pnp dark-switching (pnp n.o.)/
npn bright-switching (npn n.c.)



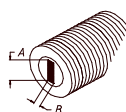
*Available apertures:

Round apertures ($\varnothing$ in mm):

d0.3
d0.5
d0.7
d1.0
d2.0

Rectangular apertures (AxB in mm):

0.3 x 1
0.3 x 1.5
0.5 x 1
0.75 x 2
1 x 2



Technical Data

Model	D-LAS3
Laser	Solid state laser, 670 nm, AC-operation, 1 mW max. opt. power, laser class 2 acc. to DIN EN 60825. The use of these laser transmitters therefore requires no additional protective measures.
Max. range	30 m (depends on the aperture used)
Min. detectable object	typ. 1% of aperture size
Reproducibility	typ. 1% of aperture size
Optical filter	Interference filter
Voltage supply	+12VDC ... +32VDC, protected against polarity reversal, overload protected
Pulsating light or continuous light operation	AC-operation, 100 kHz
Ambient light	up to 5000 Lux (depends on the aperture used)
Current consumption	Transmitter: typ. 60 mA Receiver: typ. 30 mA
Max. size of aperture	Round aperture: max. Ø 2.0 mm, rectangular aperture: max. 2 mm x 1 mm
Monitoring output	Analog output 0V...+10V (typ. 100 kHz band width)
Type of protection	IP67
Operating temperature range	-20°C up to +50°C
Storage temperature range	-20°C up to +85°C
Housing material	Brass, nickel-plated
Housing dimensions	Transmitter respectively receiver: M8x1, length approx. 66 mm
Connector type	M8, 3-pin (V2A-plug)
Max. switching current	100 mA, short-circuit-proof
EMC test acc. to	IEC - 801... 
Switching frequency	typ. 1 kHz

Laser Warning

The transmitters of the laser one-way light barriers of D-LAS Series comply with laser class 2 according to EN 60825. The use of these laser transmitters therefore requires no additional protective measures.

The transmitters of the D-LAS Series are supplied with a laser warning label.

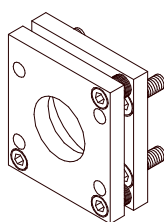
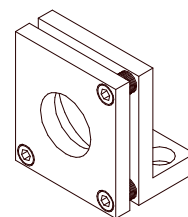


LASER RADIATION
DO NOT STARE INTO THE BEAM
CLASS II LASER PRODUCT

Mounting

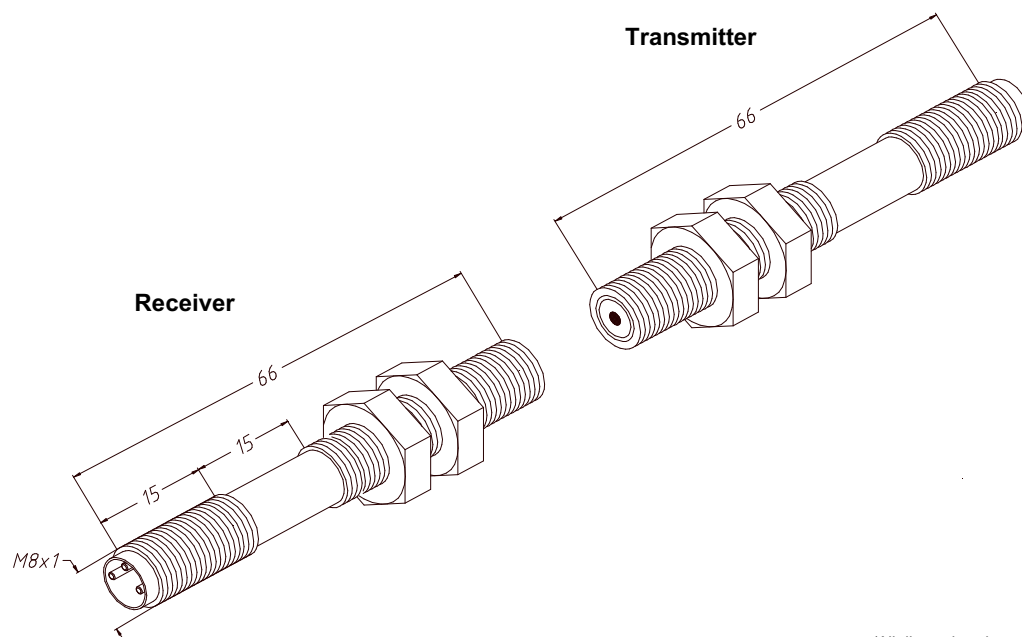
Mounting accessories:
(please order separately)

Mounting flange FL-8
Mounting flange WFL-8

**FL-8****WFL-8**

Dimensions

D-LAS3 transmitter
D-LAS3 receiver



(All dimensions in mm)



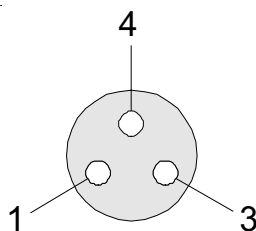
Connector Assignment

Receiver

(3-pin M8-connector)

Type Q (npn dark-switching / pnp bright-switching):

Pin No.:	Color:	Assignment:
1	brn	+12VDC...+32VDC
3	blu	GND (0V)
4	blk	OUTPUT

**Transmitter**

(3-pin M8-connector)

Pin No.:	Color:	Assignment:
1	brn	+12VDC...+32VDC
3	blu	GND (0V)
4	blk	SHIELD

Type Qinv (pnp dark-switching / npn bright-switching):

Pin No.:	Color:	Assignment:
1	brn	+12VDC...+32VDC
3	blu	GND (0V)
4	blk	OUTPUT INV



Connecting Cables

Available cable types:

cab-M8/3-g-2	Length: 2m	Outer jacket: PUR
cab-M8/3-g-5	Length: 5m	Outer jacket: PUR
cab-M8/3-w-2	Length: 2m	Outer jacket: PUR angle type
cab-M8/3-w-5	Length: 5m	Outer jacket: PUR angle type
cab-M8/3-w-npn-2	Length: 2m	Outer jacket: PUR angle type, LED
cab-M8/3-w-npn-5	Length: 5m	Outer jacket: PUR angle type, LED
cab-M8/3-w-pnp-2	Length: 2m	Outer jacket: PUR angle type, LED
cab-M8/3-w-pnp-5	Length: 5m	Outer jacket: PUR angle type, LED

