

DL20R/S109E-14

MICRO THROUGH BEAM SENSOR
with separate amplifier

- optimized for high vacuum applications
- for screw in fixture in vacuum chamber walls
- very high object resolution
- approved and robust design



DL20R/S109E-14



TECHNICAL SENSOR DATA

light type	red 650nm
connection type	M8-connector
temperature range	-10°C...+55°C
protection class	IP65

SENSING RANGE and SMALLEST OBJECT

sensing distance	300mm
smallest object*	Ø 0,2mm

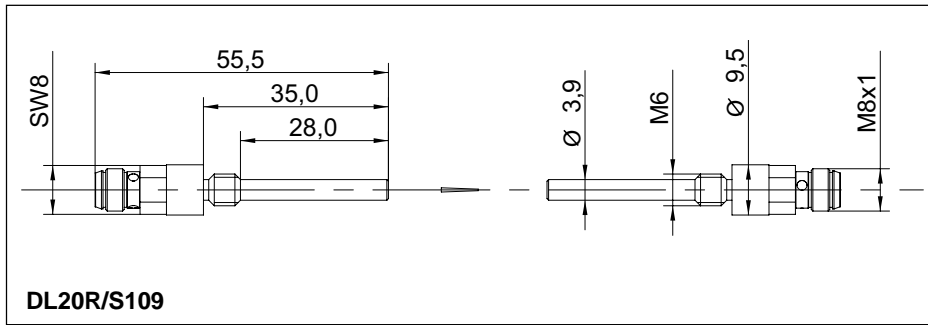
*copper wire, obtained with optimal distance and sensitivity setting on the amplifier.

This sensor is designed for high vacuum applications. All materials have been selected in terms of outgassing characteristics:

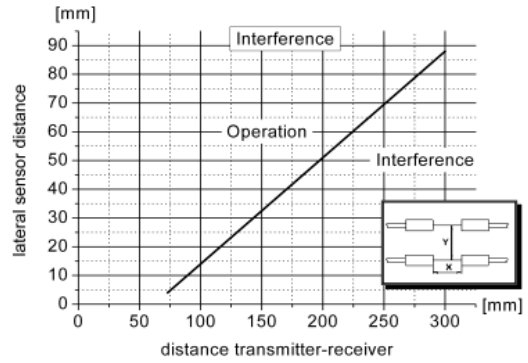
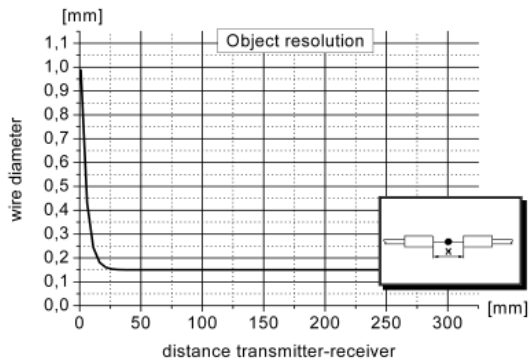
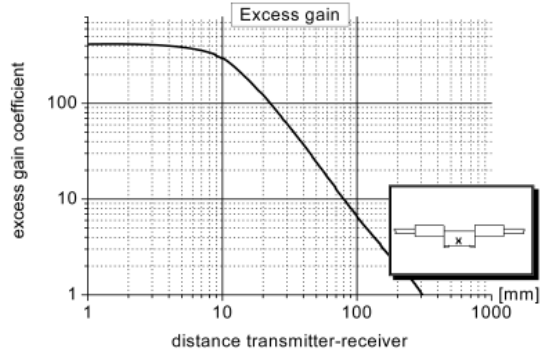
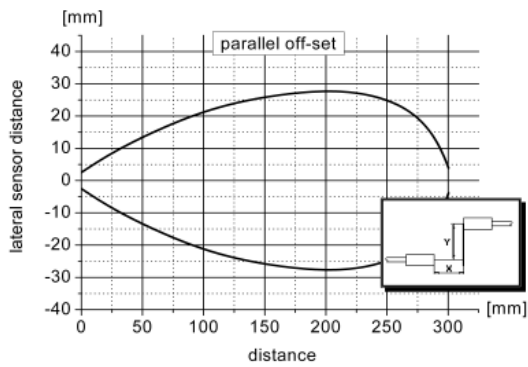
- stainless steel, 1.4301
- Epoxies NASA approved for space flight application*
- Viton O-Ring FKM

*Detailed characteristics can be provided upon request.

DIMENSION



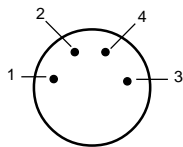
GRAPHS (Obtained with V9 on max. sensitivity adjustment)



PIN CONNECTION

- 1
- 2
- 3 (red)
- 4 (white)

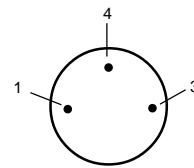
not connected
not connected
LED +
LED -



emitter

- 1 (green)
- 3
- 4 (black)

FT-
not connected
FT+



receiver

PART DESIGNATION

DL20R/S109E-14

Please remember, for correct operation, a separate amplifier is required.

Please don't forget to order the appropriate adapter cable.