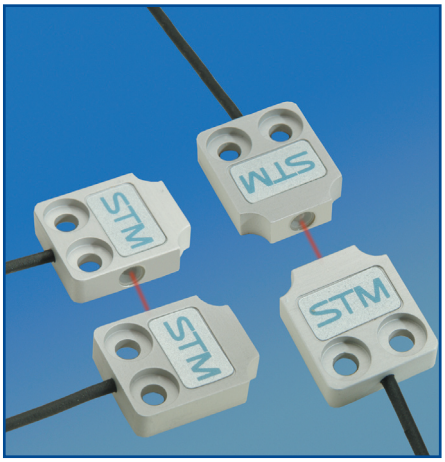
DLF50RN | DLF52RN

- **MICROmote® -sensor for separate amplifier in flat design**
- **Powerful through-beam sensors with very high range**
- **The latest nanoSPOT LED technology allows an almost parallel light beam and a laser-like light point**
- **High lateral resolution and very good repeat precision**
- **Space-saving, robust housing construction**
- **Glass-protected optics**



THROUGH BEAM SENSOR
for separate amplifier

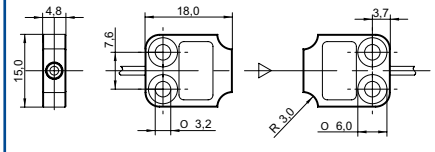
TECHNICAL DATA

MODEL	DLF50RN	DLF52RN
Light type	nano•SPOT® ** 645nm	
Operating temperature	-10°C to +55°C	
Protection class	IP67	
Sensing distance	1500mm	
Light spot diameter at 100mm	2,8mm	
Smallest object*	0,1mm	
Connection type	PUR-cable with connector	
Dimensions	18mm x 15mm x 4,8mm	
Housing material	aluminium, nature anodized	
Mounting	for screw-in fixture	

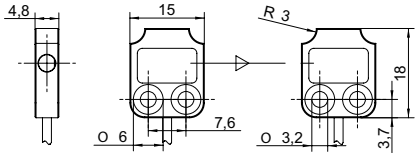
* Ø copper wire of infinite length. Depending on adjustment and sensing distance (see graphs).
** registered Trademark of STM GmbH

DIMENSIONS Measurements in mm. Subject to technical change.

DLF50RN



DLF52RN

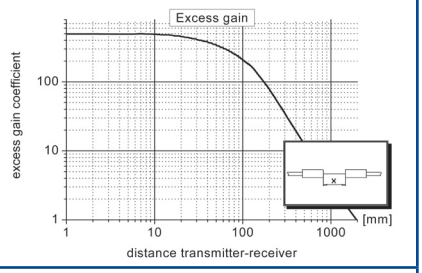


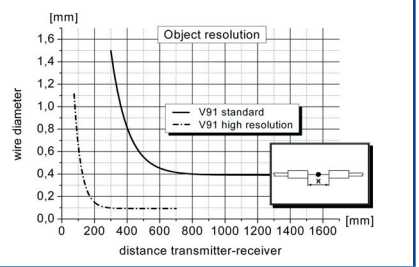
actual size

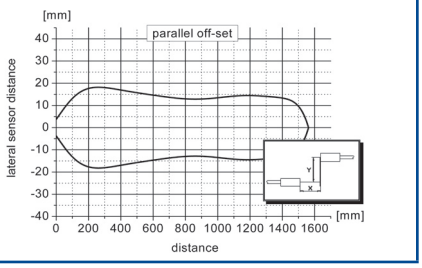
DLF50RN | DLF52RN

GRAPHS (All Graphs showing typical data with STM amplifier.)

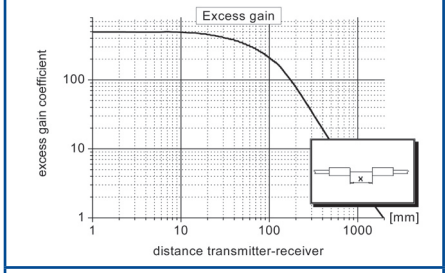
DLF50RN

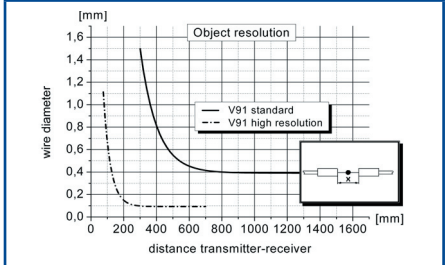


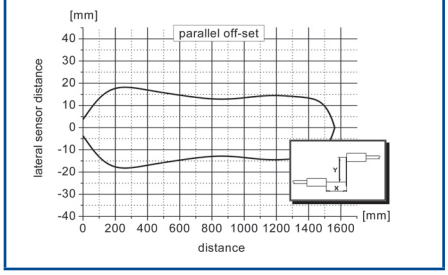




DLF52RN



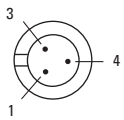




PIN CONNECTION

option - 2: 719, 3pin (standard)

3 + receiver (green)
4 GND/shielding (white, black)
1 + emitter (red)



connector side

APPLICATION NOTE

nanoSPOT sensors feature a very low beam angle and a small light spot.
Please provide for an alignment possibilty in the design of your setup.
Max. deviation of the optical axis from body centerline < 3°.

PART DESIGNATION

jacket material
P: PUR-cable black ø 1,8mm
F: highly flexible PUR-cable red ø 1,1mm

connector
2: 719 - connector 3pin
special model available on request

cable length (specification in [m])
standard length 1m
special cable length available on request

Model – □ – □ : □

ORDER EXAMPLE

DLF50RN - P - 2 : 1m = DLF50 nanoSPOT - PUR-cable black - 719, 3pin : cable length 1m

Please note, for correct operation, a separate nanoSPOT-amplifier is required.