DL40RN

- **MICROmote® -sensor for separate amplifier in robust 4mm housing**
- **Thanks to nanoSPOT technology, the perfect light spot guarantees precision, even at long ranges**
- **nanoSPOT optics provide a close to parallel light beam (1° divergence)**
- **Especially flexible connecting cables allow installation even in moving machine parts**

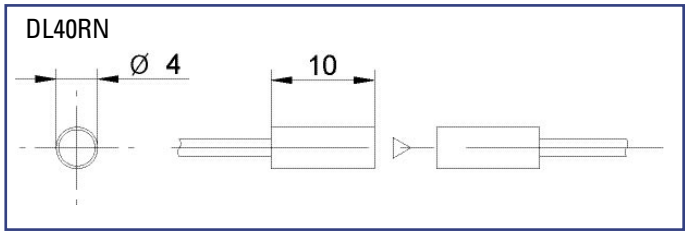
nano•SPOT® **THROUGH BEAM SENSOR for separate amplifier**

TECHNICAL DATA

MODEL	DL40RN
Light type	nano•SPOT® ** red 645nm
Operating temperature	-10°C to +55°C
Protection class	IP65
Sensing distance	1500mm
Lightspot diameter at 100mm	2,8mm
Smallest object*	0,1mm
Connection	PUR-cable with connector
Dimensions	Ø 4mm x 10mm
Housing material	stainless steel
Mounting	for gluing and clamping 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.



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

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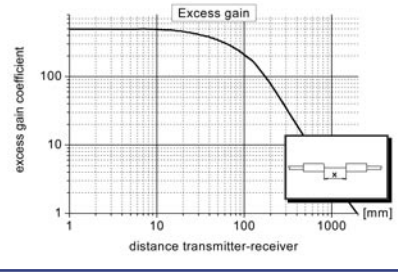
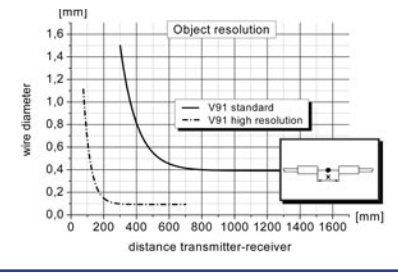
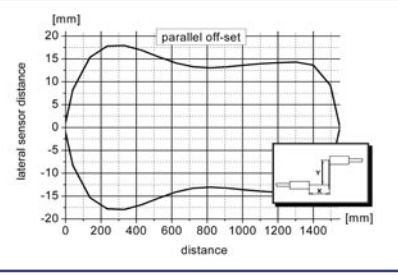
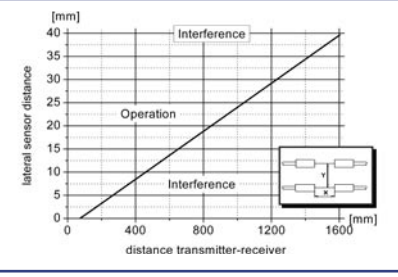




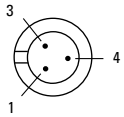




PIN CONNECTION

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°.

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 (emitter and receiver side each)
special cable length available on request

PART DESIGNATION

Model – □ – □ : □

ORDER EXAMPLE

DL40RN - P - 2 : 1m = DL40 nanoSPOT - PUR-cable black - 719, 3pin : cable length 1m

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