

## DL20RN • DLM30RN



MINIATURE THROUGH BEAM SENSOR  
with separate amplifier

- Latest LED Technology
- Very high lateral resolution and repeatability
- Extra small light spot, prevents disturbing reflections from vicinity
- Minimum space required
- Minimum weight



**nano • SPOT®**  
nano • SPOT® is a new and powerful LED technology for miniaturized opto sensors

DL20RN • DLM30RN

<ul style="list-style-type: none"> <li>• Ø 2 mm x 8 mm</li> <li>• stainless steel</li> <li>• f. gluing and clamping fixture</li> </ul>	<p><b>DL20RN</b></p>  <p>actual size</p>
<ul style="list-style-type: none"> <li>• M3 x 0,5 mm x 8 mm</li> <li>• nickel-plated brass</li> <li>• f. screw-in fixture</li> </ul>	<p><b>DLM30RN</b></p>  <p>actual size</p>

### GENERAL TECHNICAL DATA

light type	red 645nm
connection type	2 x 1m PUR cable with connector
temperature range	-10°C...+55°C
protection class	IP65

### SENSING DISTANCE and SMALLEST OBJECT

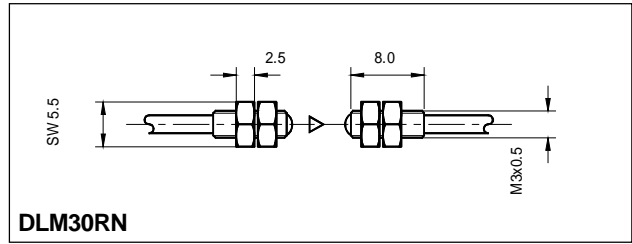
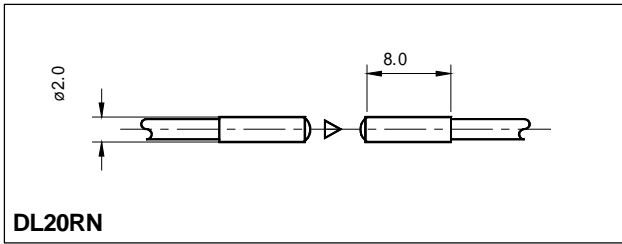
sensing distance	800mm
smallest object (Ø copper wire)*	Ø 0,05mm

\*copper wire, obtained at optimum distance and sensitivity setting on the amplifier

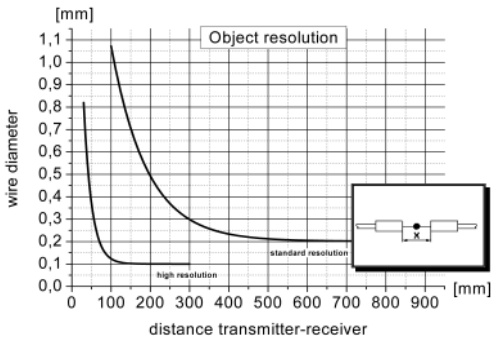
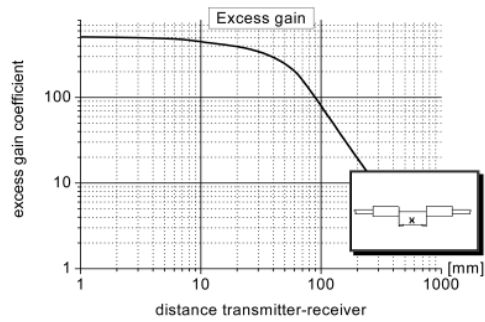
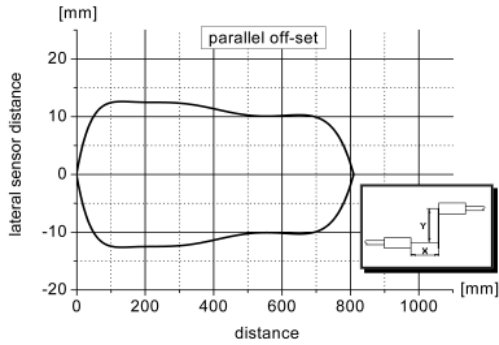


beam spot at 20mm distance

**DIMENSIONS**



**GRAPHS** (sensing field, smallest object and interference obtained with V9 on max. sensitivity adjustment)



p.n.: all graphs showing typical data!

**PART DESIGNATION**

**DL20RN** - □ - □ : □  
**DLM30RN** - □ - □ : □

**jacket material**

- P:** PUR-cable black, Ø 1,8mm
- F:** highly flexible PUR-cable red Ø 1,1mm

**cable length** (specified in [m])

- 1m: standard (on emitter and receiver side each)
- special cable length

**connector**

- 2:** 719-Binder connector, 3pin

**ORDER EXAMPLE:**

**DL20RN-P-2:1m** = DL20RN - PUR-cable black - 719-Binder connector, 3pin: cable length 2 x 1m

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