

- ▶ **COMPACT** mini-optosensor with integrated amplifier
- ▶ The well defined light spot from microSPOT ensures the highest scanning precision – without interfering reflections
- ▶ 6.5 mm grid dimensions – direct replacement for inductive proximity switches
- ▶ Convenient connection with M8 connectors



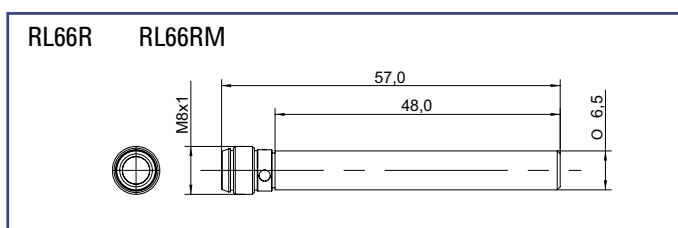
**REFLECTIVE BEAM SENSOR with integrated amplifier**

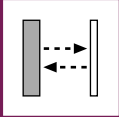
▶ **TECHNICAL DATA**

| MODEL                                   | RL66R                                   | RL66RM                 |
|---|---|------------------------|
| Light type                              | red 660nm                               | micro SPOT*** 645nm    |
| Operating temperature                   | -10°C to +55°C                          |                        |
| Protection class                        | IP65                                    |                        |
| Functional principle                    | pulsed                                  |                        |
| Frequency response                      | 500Hz                                   |                        |
| Power supply indicator/Signal stability | LED red                                 |                        |
| Operating voltage                       | 10...30 VDC reverse polarity protection |                        |
| Current consumption                     | 30mA                                    |                        |
| Output current                          | PNP 100mA short circuit proof           |                        |
| Sensing distance                        | 50mm*                                   |                        |
|   | 600mm on reflector R35                  | 800mm on reflector R35 |
| Lightspot diameter at 50mm              | 14mm                                    | 5mm                    |
| Connector                               | M8, 3 pin***                            |                        |
| Dimensions                              | Ø 6,5mm x 56mm                          |                        |
| Housing material                        | nickel-plated brass                     |                        |
| Mounting                                | for gluing and clamping fixture         |                        |

\* on white non glossy paper (90% remission, 100x100mm)  
 \*\* registered Trademark of STM GmbH  
 \*\*\* cable to be ordered separately

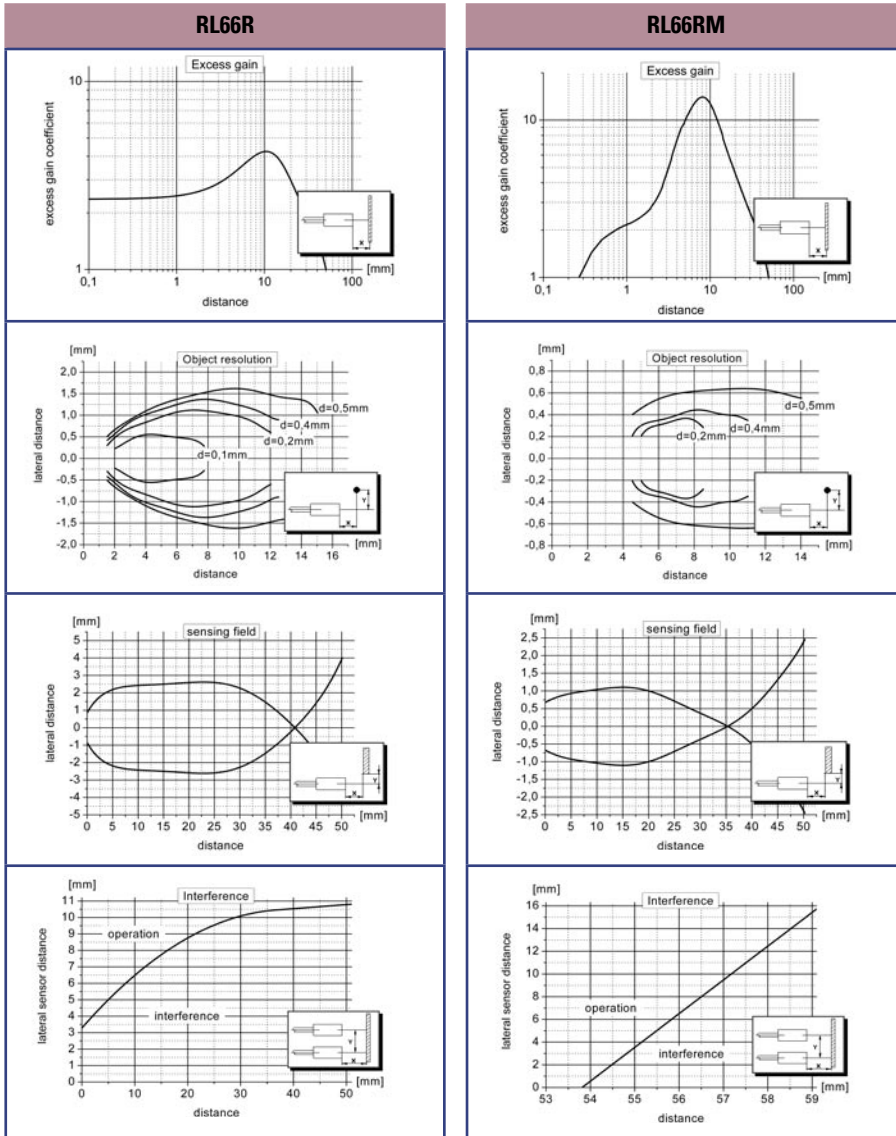
▶ **DIMENSIONS** Measurements in mm. Subject to technical change.



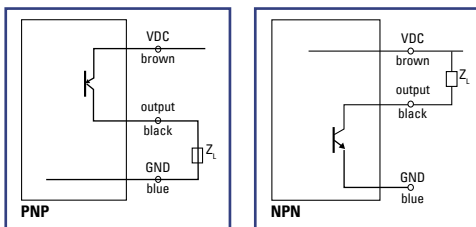


**RL66R | RL66RM**

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



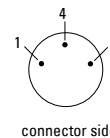
► **CONNECTION-DIAGRAM**



► **PIN CONNECTION**

connector M8, 3pin

- 1 + receiver (brown)
- 4 signal output (black)
- 3 - GND (blue)



**PART DESIGNATION**

|                   |               |        |          |            |
|-------------------|---------------|--------|----------|------------|
| <b>RL66R-BHP</b>  | = red         | pulsed | light-on | PNP-output |
| <b>RL66RM-BHP</b> | = micro SPOT® | pulsed | light-on | PNP-output |
| <b>RL66R-BHN</b>  | = red         | pulsed | light-on | NPN-output |
| <b>RL66RM-BHN</b> | = micro SPOT® | pulsed | light-on | NPN-output |

Please do not forget to order the appropriate power supply cable (see accessories).