


# CR

# CR0/BP-1V

**Area Sen, H=69mm-10mm pitch,Reflex**
**RETROREFLECTIVE POLARIZED AREA SENSORS**

## OVERVIEW

- Area height controlled 69 mm
- Maximun operative distance up to 4.5 m
- Minimum object detection diam. 6mm
- Two teach-in types: fine and standard
- Optical pitch 10mm
- Protection degree IP67
- Blanking function

## TECHNICAL FEATURES

Detection properties

| | |
|---|---|
| Nominal sensing distance | 0,2 … 4,5m (with RL106G) |
| Thermal drift of Sr | ≤10% |
| Beams space | 10mm |
| controlled height | 69mm |
| minimum detectable object | Ø 3…7mm @ 2m RL106G - Ø 3…16mm @ 4,5m RL106G |

| | |
|---|---|
| number of rays | 6 |
| Sensitivity adjustment | Teach in: fine < 3s; standard > 6s |

Application

| | |
|---|---|
| Function Principle | Retroreflective polarized area sensor |

Outputs

| | |
|---|---|
| Output type | PNP |
| Output Function | NO+NC |
| Switching frequency | 400Hz |

Electrical data

| | |
|---|---|
| Operating Voltage | 12...30VDC |
| No-Load supply current | 100mA |
| Load current | 160mA |
| Leakage current | ≤1μA |
| Output voltage drop | 1,6Vdc @ 100mA |
| Max ripple content | ≤ 10% |
| LED indicators | green: power supply-alignment; red: dark/light status |
| Time delay before availability | < 300ms |
| Short-circuit protection | Yes (autoreset) |

| | |
|---|---|
| Reverse Polarity Protection | Yes |
| Emission | Red (617nm) |
| Interference to external light | 5000lux (fluorescent lamp); 50000lux (sun light) |
| Impulsive Overvoltage Protection | Yes |

Mechanical data

| | |
|---|---|
| Dimensions | 107mm x 20mm x 36mm |
| Housing material | Aluminim |
| Weight | 100g |
| Connections | M12 4pin + cable PVC 200mm |
| Active Head Material | PMMA |
| Operating temperature | -10°C…+ 55° C (without freeze) |

Test/Approvals

| | |
|---|---|
| Approvals | CE, cULus,UKCA |
| EMC compatibility | EN 60947-5-2 |
| Shocks and vibrations | IEC EN 60947-5-2 / 7.4 |
| Degree of protection | IP67 |

Accessories

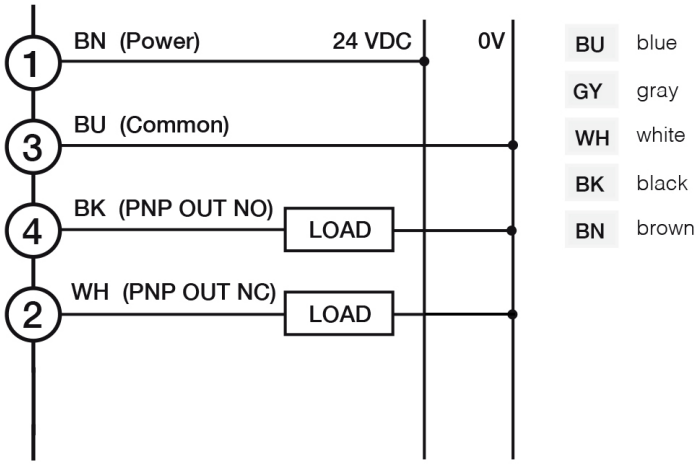
| | |
|---|---|
| Supplied Accessories | RL106G reflector + fixing kit (ST151) |

Generical Data

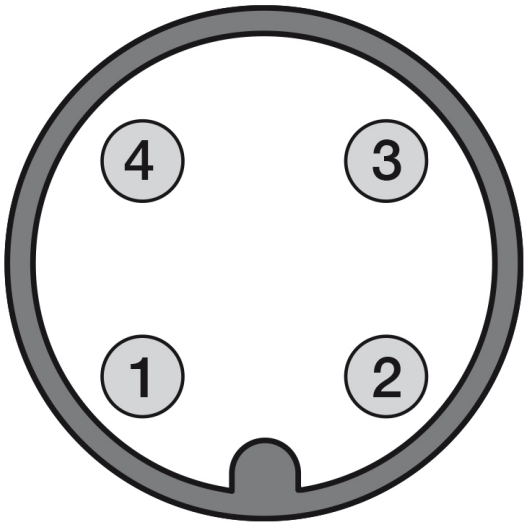
| | |
|---|---|
| Dimensions | 107x20x36 |
| Operating Temperature | -10°C…+ 55° C (without freeze) |
| Mechanical Protection | IP67 |

# CONNECTIONS

Eletrical diagram

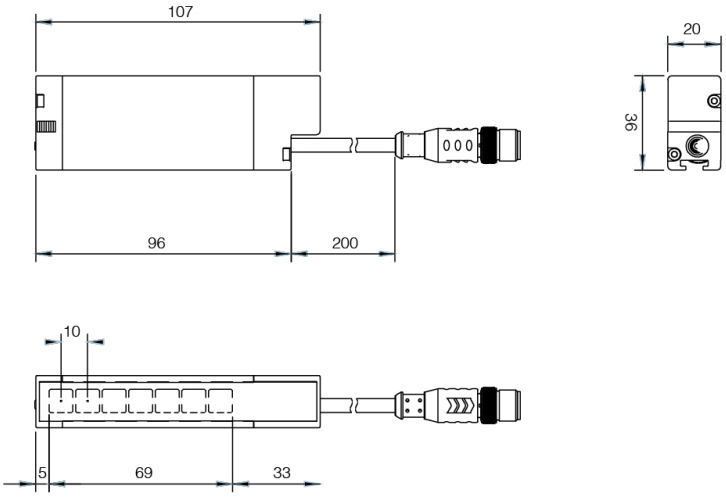



Connector




# OTHERS

Dimensions




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