



CR

CR1/0I-1V

Area Sen, H=149mm-10mm pitch, Reflex
RETROREFLECTIVE POLARIZED AREA SENSORS

OVERVIEW

- Area height controlled 149 mm
- Maximum 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 RL136) |
| Thermal drift of Sr | ≤10% |
| Beams space | 10mm |
| controlled height | 149mm |
| minimum detectable object | Ø 3...10mm @ 2m RL136 - Ø 3...20mm @ 4,5m RL136 |

| | |
|----------------|----|
| number of rays | 14 |
|----------------|----|

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

Application

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

Outputs

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|-------------|-------------|
| Output type | IO Link/PNP |
|-------------|-------------|

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|-----------------|-------|
| Output Function | NO/NC |
|-----------------|-------|

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|---------------------|-------|
| Switching frequency | 320Hz |
|---------------------|-------|

Electrical data

| | |
|-------------------|------------|
| Operating Voltage | 12...30VDC |
|-------------------|------------|

| | |
|------------------------|-------|
| No-Load supply current | 135mA |
|------------------------|-------|

| | |
|--------------|-------|
| Load current | 160mA |
|--------------|-------|

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|-----------------|---------------------|
| Leakage current | $\leq 1\mu\text{A}$ |
|-----------------|---------------------|

| | |
|---------------------|----------------|
| Output voltage drop | 1,6Vdc @ 100mA |
|---------------------|----------------|

| | |
|--------------------|-------------|
| Max ripple content | $\leq 10\%$ |
|--------------------|-------------|

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|----------------|---|
| LED indicators | green: power supply-alignment; red: dark/light status |
|----------------|---|

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|--------------------------------|---------|
| Time delay before availability | < 700ms |
|--------------------------------|---------|

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|--------------------------|-----------------|
| Short-circuit protection | Yes (autoreset) |
|--------------------------|-----------------|

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

Mechanical data

| | |
|-----------------------|-----------------------------------|
| Dimensions | 187mm x 20mm x 36mm |
| Weight | 170g |
| Housing Material | Aluminim |
| Connections | M12 4pin + cable PVC 200mm |
| Active Head Material | PMMA |
| Operating temperature | -10°C...+ 55° C (no condensation) |

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 | RL136 reflector + fixing kit (ST151) |
|----------------------|--------------------------------------|

Generical Data

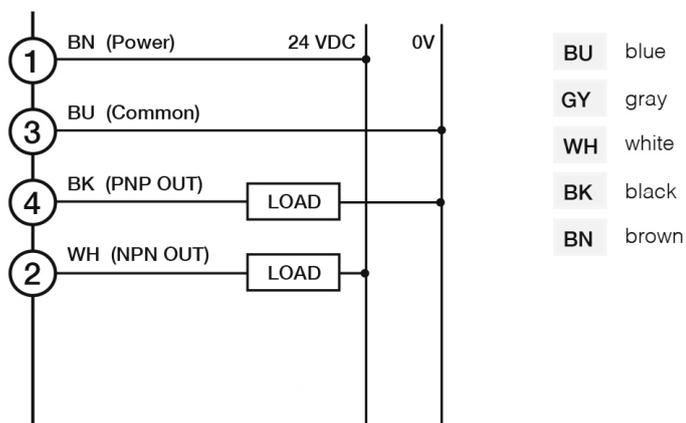
Dimensions 187x20x36

Operating Temperature -10°C...+ 55° C (without freeze)

Mechanical Protection IP67

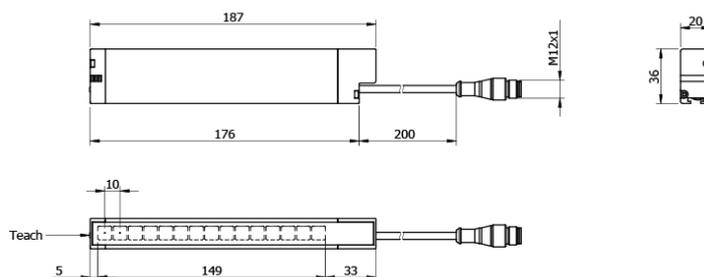
CONNECTIONS

Electrical diagram



OTHERS

Dimensions



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date of
printing
02/04/2026
00:56:43