

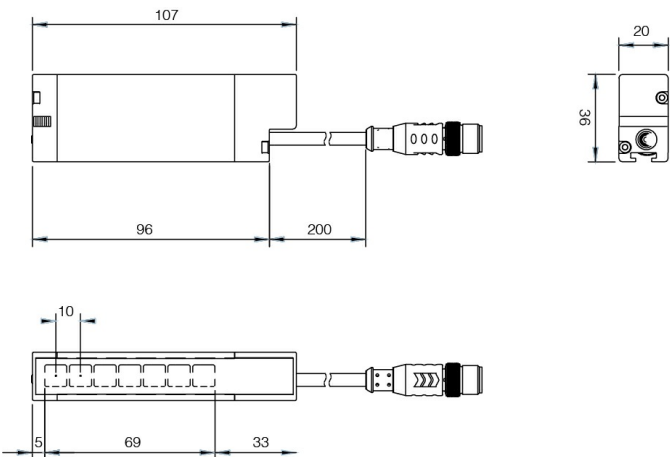


Indicative image



RETROREFLECTIVE POLARIZED AREA SENSORS

- Area height controlled 69 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



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...6mm @ 2m RL106G - Ø 3...10mm @ 4,5m RL106G
number of rays	6
Sensitivity adjustment	Teach in: fine < 3s; standard > 6s

Application

Function Principle	Retroreflective polarized area sensor
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Outputs

Output type	IO Link/PNP
Output Function	NO/NC
Switching frequency	400Hz

Electrical data

Operating Voltage	12 – 30Vdc
No-Load supply current	100mA
Load current	100mA
Leakage current	≤100μA
Output voltage drop	3Vdc @ 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
Interference to external light	5000lux(fluorescent lamp); 50000lux(sun light)
Impulsive Overvoltage Protection	Yes

Mechanical data

Dimensions	107mm x 20mm x 36mm
Weight	100g
Housing Material	Aluminim
Connections	M12 pigtail
Active Head Material	PMMA
Operating temperature	-10°C...+ 55° C (without freeze)

Test/Approvals

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

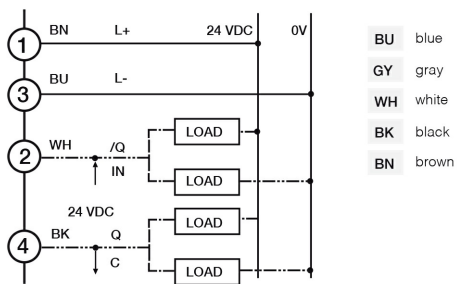
Accessories

Supplied Accessories	RL106G reflector + fixing kit (ST151)
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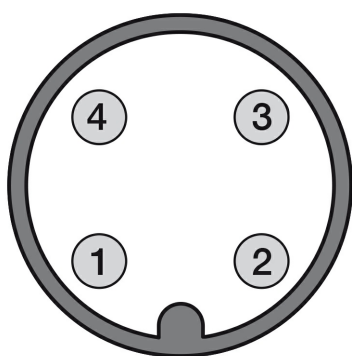
Generical Data

Dimensions	107mm x 20mm x 36mm
Operating Temperature	-10°C...+ 55° C (without freeze)
Mechanical Protection	IP67

ELECTRICAL DIAGRAMS OF THE CONNECTIONS



CONNECTOR



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