



CR

CR1/0B-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)
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Thermal drift of Sr	≤10%
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Beams space	10mm
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controlled height	149mm
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minimum detectable object	Ø 3...10mm @ 2m RL136 - Ø 3...20mm @ 4,5m RL136
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number of rays	14
Sensitivity adjustment	Teach in: fine < 3s; standard > 6s
Application	
Function Principle	Retroreflective polarized area sensor
Outputs	
Output type	NPN + PNP
Output Function	NO/NC
Switching frequency	320Hz
Electrical data	
Operating Voltage	12...30VDC
No-Load supply current	135mA
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	< 700ms
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
Housing material	Aluminim
Weight	170g
Connections	M12 5pin + 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

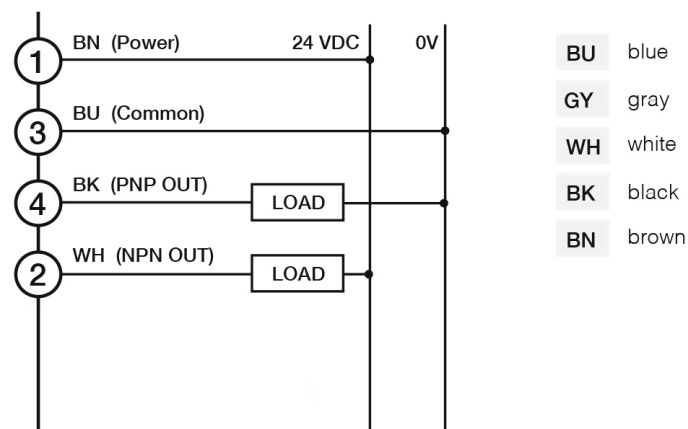
Supplied Accessories	RL136 reflector + fixing kit (ST151)
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Generical Data

Dimensions	187x20x36
Operating Temperature	-10°C...+ 55° C (without freeze)
Mechanical Protection	IP67

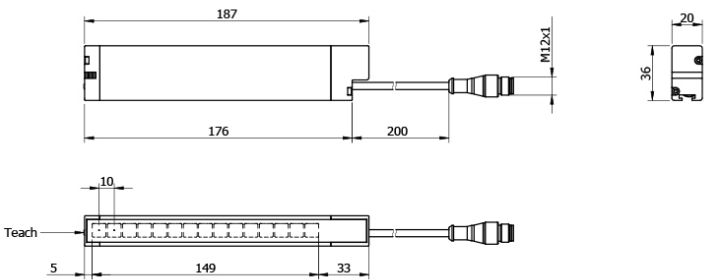
CONNECTIONS

Eletrical diagram



OTHERS

Dimensions



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date of
printing
10/08/2026
04:42:41