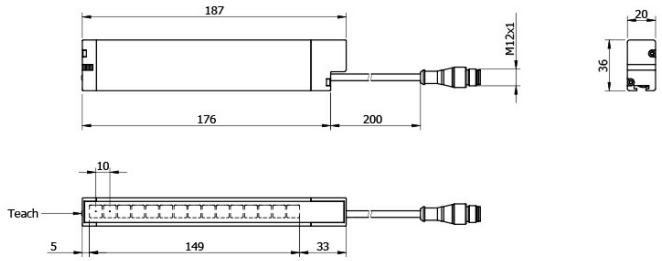
CR1/BP-1V

CR



RETROREFLECTIVE POLARIZED AREA SENSORS

- 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



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...8mm @ 2m RL136 - Ø 3...18mm @ 4,5m RL136
number of rays	15
Sensitivity adjustment	Adjustment: fine < 3s; standard > 6s

Application

Function Principle	Retroreflective Area Sensor

Outputs

Output type	PNP
Output Function	NO+NC
Switching frequency	275Hz

Electrical data

Operating Voltage	12 - 30Vdc
No-Load supply current	135mA
Load current	160mA
Leakage current	≤100µA
Output voltage drop	3Vdc @ 100mA
Max ripple content	≤ 10%
LED indicators	green: supply/alignment; red: dark/light state
Time delay before availability	300ms
Short-circuit protection	Yes (autoreset)
Reverse Polarity Protection	Sì
Emission	Red
Interference to external light	5000lux (fluorescent lamp); 50000lux (sunlight)
Impulsive Overvoltage Protection	Sì

Mechanical data

Dimensions	187mm x 20mm x 36mm
Weight	170g
Housing Material	aluminum
Connections	M12 pigtail
Active Head Material	PMMA
Operating temperature	-10°C...+ 55° C (no condensation)

Test/Approvals

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

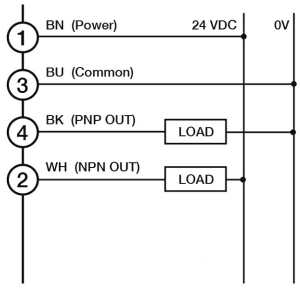
Accessories

Supplied Accessories	Reflector RL136 + fixing kit (ST151)

Generical Data

Dimensions	187mm x 20mm x 36mm
Operating Temperature	-10°C...+ 55° C (no condensation)
Mechanical Protection	IP67

ELECTRICAL DIAGRAMS OF THE CONNECTIONS



BU	blue
GY	gray
WH	white
BK	black
BN	brown

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