

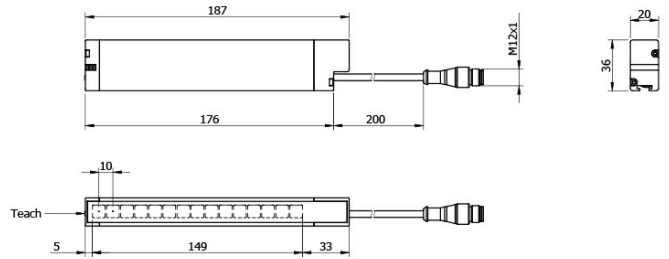
CR1/0B-1V

polarized retroreflective



Micro Detectors

Italian Sensors Technology



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
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Outputs

Output type	NPN + PNP
Output Function	NO/NC

Switching frequency 275Hz

Electrical data

Operating Voltage 12 - 30Vdc

No-Load supply current 100mA

Load current 160mA

Leakage current $\leq 100\mu\text{A}$

Output voltage drop 3Vdc @ 100mA

Max ripple content $\leq 10\%$

LED indicators green: supply/alignment; red: dark/light state

Time delay before availability 300ms

Short-circuit protection Yes (autoreset)

Reverse Polarity Protection Si

Emission Red

Interference to external light 5000lux (fluorescent lamp); 50000lux (sunlight)

Impulsive Overvoltage Protection Si

Mechanical data

Dimensions 187mm x 20mm x 36mm

Weight 170g

Housing Material aluminum

Connections M12 pigtail

Active Head Material PMMA

Operating temperature $-10^{\circ}\text{C} \dots + 55^{\circ}\text{C}$ (no condensation)

Test/Approvals

Approvals CE

EMC compatibility EN 60947-5-2

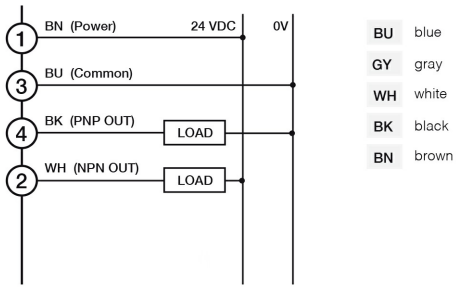
Shocks and vibrations IEC EN 60947-5-2 / 7.4

Degree of protection IP67

Accessories

Supplied Accessories Reflector RL136 + fixing kit (ST151)

ELECTRICAL DIAGRAMS OF THE CONNECTIONS



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