

RS PRO Photoelectric Sensor

RS Stock No.: 2044013, 2044014, 2044015, 2044016

FEATURES

- Emitter and receiver built in one housing, sensing distance adjustable;
- Background suppression type, stable detection for both white and black targets;
- Super anti-interference to ambient light;



RS Professionally Approved Products bring to you professional quality parts across all product categories. Our product range has been tested by engineers and provides a comparable quality to the leading brands without paying a premium price.

Part Number Description

Part number	Sensing distance	Light source	Output	Connection
2044013	10cm (adjustable)	Red light (680nm)	PNP NO+NC	2m PVC cable
2044014	10cm (adjustable)	Red light (680nm)	NPN NO+NC	2m PVC cable
2044015	10cm (adjustable)	Red light (680nm)	PNP NO+NC	M12 connector
2044016	10cm (adjustable)	Red light (680nm)	NPN NO+NC	M12 connector

General Specifications

Detection Type	Background suppression
Rated distance	10cm adjustable
Standard target	Reflection rate: White card 90%; Black card 10%
WH&BK color variation	≤10%
Repeat accuracy [R]	≤3%
Response Time	≤2ms
Output Indicator	Yellow LED
Ambient temperature	-15°C...55 °C
Ambient humidity	35...85 %RH (non-condensing)

Electrical Specifications

Operating Supply Voltage	10...30 VDC
Current Consumption	≤35mA
Residual voltage	≤2.5V
Load Current	≤200mA
Hysteresis	≤5%
Reverse Polarity Protection	YES
Overload Protection	YES
Short Circuit Protection	YES
Voltage withstand	1000V/AC 50/60Hz 60s
Insulation resistance	≥50MΩ(500VDC)
Vibration resistance	10...50Hz (0.5mm)

Mechanical Specifications

Body Style	Barrel
Mounting Type	Screw nut
Housing Material	Nickel copper alloy

Dimensions	M18*86.6mm(connector type) / M18*73.3mm (cable type)
Weight	80g (connector type) / 100g (cable type)

Protection Category

IP Rating	IP67
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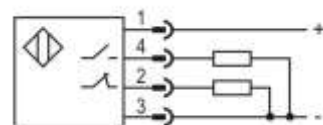
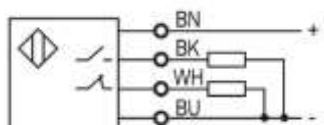
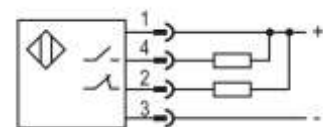
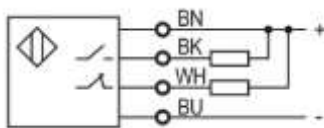
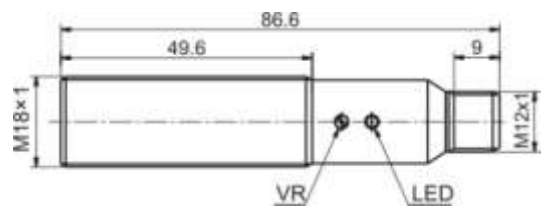
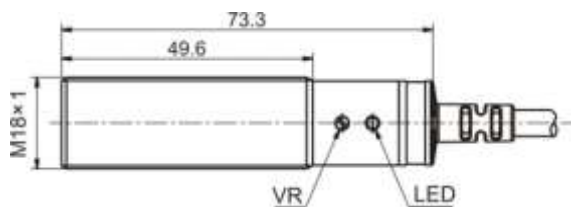
Additional Information

Custom Tariff Number/HS code	903180
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Approvals

Compliance/Certifications	CE
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Dimension and Wiring



Cable type

Connection type