

# RS PRO Photoelectric Sensor

RS Stock No.: 2043994, 2043995, 2043996, 2043997, 2043998, 2043999

## FEATURES

- Through beam reflection working principle;
- Excellent anti-interference performance;
- High detection accuracy;
- Emitter and receiver should be used in pair.



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
2043994 (Emitter)	10m (non adjustable)	Infrared LED (880nm)	NPN NO+NC	2m PVC cable
2043995 (Receiver)				
2043994 (Emitter)	10m (non adjustable)	Infrared LED (880nm)	PNP NO+NC	2m PVC cable
2043996 (Receiver)				
2043997 (Emitter)	20m (non adjustable)	Infrared LED (880nm)	NPN NO+NC	2m PVC cable
2043998 (Receiver)				
2043997 (Emitter)	20m (non adjustable)	Infrared LED (880nm)	PNP NO+NC	2m PVC cable
2043999 (Receiver)				

## General Specifications

<b>Detection Type</b>	Through beam reflection sensor
<b>Rated distance</b>	10m/20m (non adjustable)
<b>Standard target</b>	> $\phi$ 15mm opaque object
<b>Repeat accuracy [R]</b>	$\leq$ 5%
<b>Response Time</b>	$\leq$ 8.2ms
<b>Output Indicator</b>	Emitter: Green LED; Receiver: Yellow LED
<b>Ambient temperature</b>	-15°C...55 °C
<b>Ambient humidity</b>	35...85 %RH (non-condensing)

## Electrical Specifications

<b>Operating Supply Voltage</b>	10...30 VDC
<b>Current Consumption</b>	$\leq$ 25mA
<b>Residual voltage</b>	$\leq$ 2.5V (receiver)
<b>Load Current</b>	$\leq$ 200mA (receiver)
<b>Hysteresis</b>	.....
<b>Reverse Polarity Protection</b>	YES
<b>Short Circuit Protection</b>	YES
<b>Voltage withstand</b>	1000V/AC 50/60Hz 60s
<b>Insulation resistance</b>	$\geq$ 50M $\Omega$ (500VDC)
<b>Vibration resistance</b>	10...50Hz (0.5mm)

## Mechanical Specifications

<b>Body Style</b>	Barrel
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# Photoelectric Sensors

<b>Mounting Type</b>	Screw Nut
<b>Housing Material</b>	Nickel copper alloy
<b>Dimensions</b>	M18*53.5mm
<b>Weight</b>	190g

## Protection Category

<b>IP Rating</b>	IP67
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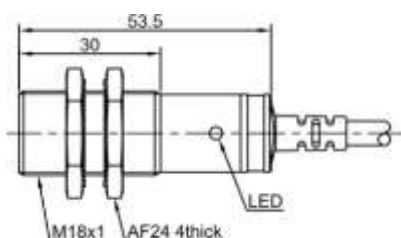
## Additional Information

<b>Custom Tariff Number/HS code</b>	903180
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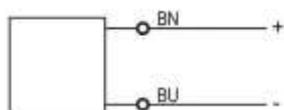
## Approvals

<b>Compliance/Certifications</b>	CE
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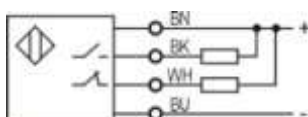
## Dimension and Wiring



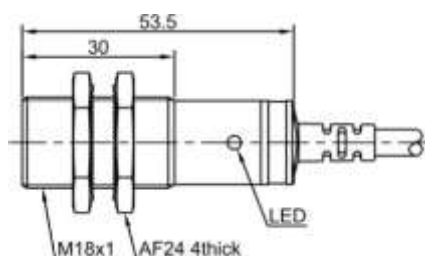
Emitter



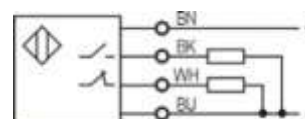
Emitter



Receiver NPN NO+NC



Receiver



Receiver PNP NO+NC