

FEATURES

- Through beam reflection working principle;
- Excellent anti-interference performance;
- $< \mathbb{I} \setminus \text{XYhW} \mathbb{I} \text{cb} \text{ UWW fUW} \mathbb{I}$
- Emitter and receiver should be used in pair.

RS PRO Photoelectric Sensor

RS Stock No.: 2043990, 2043991, 2043993



RS PRO 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
2043990 (Emitter)	5m (non adjustable)	Infrared LED (880nm)	NPN NO	2m PVC cable
2043991 (Receiver)				
2043990 (Emitter)	5m (non adjustable)	Infrared LED (880nm)	PNP NO	2m PVC cable
2043993(Receiver)				

General Specifications

Detection Type	Through beam reflection sensor
Rated distance	5m non adjustable
Standard target	> ϕ 10mm opaque object
Repeat accuracy [R]	\leq 5%
Response Time	\leq 8.2ms
Output Indicator	Emitter: Green LED; Receiver: 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	\leq 25mA
Residual voltage	\leq 2.5V (receiver)
Load Current	\leq 200mA (receiver)
Hysteresis
Reverse Polarity Protection	YES
Short Circuit Protection	YES
Voltage withstand	1000V/AC 50/60Hz 60s
Insulation resistance	\geq 50M Ω (500VDC)
Vibration resistance	10...50Hz (0.5mm)

Mechanical Specifications

Body Style	Barrel
Mounting Type	Screw Nut
Housing Material	Nickel copper alloy
Dimensions	M12*52mm (cable type)
Weight	100g

Protection Category

IP Rating

IP67

Additional Information

Custom Tariff Number/HS code

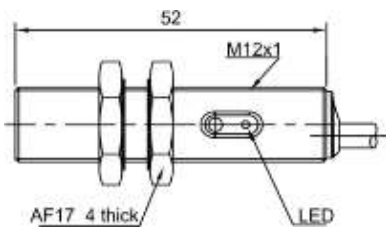
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Approvals

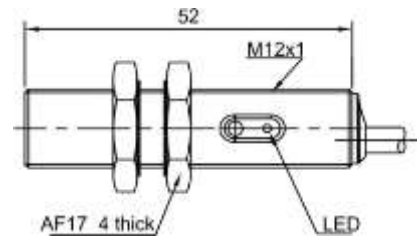
Compliance/Certifications

CE

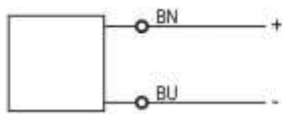
Dimension and Wiring



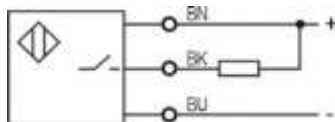
Emitter



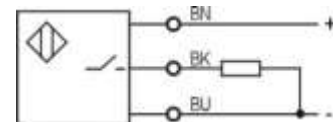
Receiver



Emitter



Receiver NPN NO



Receiver PNP NO