RS PRO Photoelectric Sensor

RS Stock No.: 2044017,2044019, 2044020, 2044021

FEATURES

- **18mm threaded cylindrical mounting, easy to install;**

- **Short shell for small installation space;**

- **Big knob design for easy adjustment;**

- **IP67 protection, suitable for harsh environments;**

- **With 360° visible bright LED status indicator;**

- **Suitable for the detection of high light objects and partial transparent objects;**

- **NO and NC are switchable.**

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
2044017	3m (adjustable)	Red light (640nm)	NPN NO/NC	2m PVC cable
2044019	3m (adjustable)	Red light (640nm)	PNP NO/NC	2m PVC cable
2044020	3m (adjustable)	Red light (640nm)	NPN NO/NC	M12 connector
2044021	3m (adjustable)	Red light (640nm)	PNP NO/NC	M12 connector

General Specifications

Detection Type	Polarized retro reflection
Rated distance	3m adjustable
Distance adjustment	Single-turn potentiometer
NO/NC adjustment	NO: Feet 2 is connected to the positive pole; NC: Feet 2 is connected to the negative pole.
Standard target	TD-09 reflector
Spot size	45*45@100cm
Response Time	≤0.5ms
Indicator	Green light: Power, light flashing means unstable signal; Yellow light: Output, light flashing means overload or short circuit
Operating Temperature	-25ºC...55 ºC
Storage temperature	-25ºC...70 ºC
Anti-ambient light	Anti-sunlight interference ≥ 10,000lux; Incandescent light interference ≥ 3,000lux

Electrical Specifications

Operating Supply Voltage	10...30 VDC
Current Consumption	≤20mA
Voltage Drop	≤1V
Load Current	≤200mA
Reverse Polarity Protection	YES
Overload Protection	YES
Short Circuit Protection	YES

Mechanical Specifications

Body Style	Barrel
Mounting Type	Screw nut

Housing Material	PC+ABS
Lens/Face Material	PMMA
Gross Weight	60g (connector type) / 88g (cable type)

Protection Category

IP Rating	IP67

Additional Information

Custom Tariff Number/HS code	903180

Approvals

Compliance/Certifications	CE

Dimension and Wiring

Operation LED
yellow

Power LED
green

Receiver

Emitter

Output indication
(Yellow)

Photoelectric
sensor main
circuit

Stability indication
(Green)

BN +
Load
BK Output
BU -
WH NO/NC

NPN

Output indication
(Yellow)

Photoelectric
sensor main
circuit

Stability indication
(Green)

BN +
BK Output
Load
BU -
WH NO/NC

PNP