RS PRO Photoelectric Sensor

FEATURES

- **Universal housing, an ideal replacement for a wide range of sensor types**

- **IP67, suitable for harsh environments**

- **One-click distance setting, accurate and fast**

- **Suitable for the detection of high light objects and some trans-parent objects**

- **NO and NC are switchable**

Part Number Description

Part number	Sensing distance	Light source	Output		Connection
2024428	10cm (adjustable)	Infrared (860nm)	NPN	NO/NC	2m PVC cable
2024431	10cm (adjustable)	Infrared (860nm)	PNP	NO/NC	2m PVC cable
2024429	10cm (adjustable)	Infrared (860nm)	NPN	NO/NC	M8 connector
2024432	10cm (adjustable)	Infrared (860nm)	PNP	NO/NC	M8 connector
2024433	30cm (adjustable)	Red light (640nm)	NPN	NO/NC	2m PVC cable
2024435	30cm (adjustable)	Red light (640nm)	PNP	NO/NC	2m PVC cable
2024434	30cm (adjustable)	Red light (640nm)	NPN	NO/NC	M8 connector
2024436	30cm (adjustable)	Red light (640nm)	PNP	NO/NC	M8 connector
2024424	100cm (adjustable)	Infrared (860nm)	NPN	NO/NC	2m PVC cable
2024426	100cm (adjustable)	Infrared (860nm)	PNP	NO/NC	2m PVC cable
2024425	100cm (adjustable)	Infrared (860nm)	NPN	NO/NC	M8 connector
2024427	100cm (adjustable)	Infrared (860nm)	PNP	NO/NC	M8 connector

General Specifications

Detection Type	Diffuse reflection
Response Time	≤1ms
Hysteresis	3...20%
Indicator	Green light: power, stable signal (Flashing means unstable signal) ; Yellow light: output, overload or short circuit (flash)
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	≤25mA
Voltage Drop	≤1V
Load Current	≤200mA
Reverse Polarity Protection	YES
Overload Protection	YES
Short Circuit Protection	YES

Mechanical Specifications

Body Style	Block
Mounting Type	Screw
Housing Material	PC+ABS
Lens/Face Material	PMMA
Dimensions	32.5*20*10.6mm
Gross Weight	50g (connector type) / 85g (cable type)

Protection Category
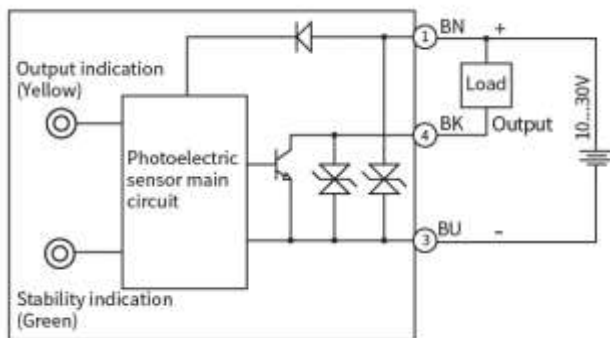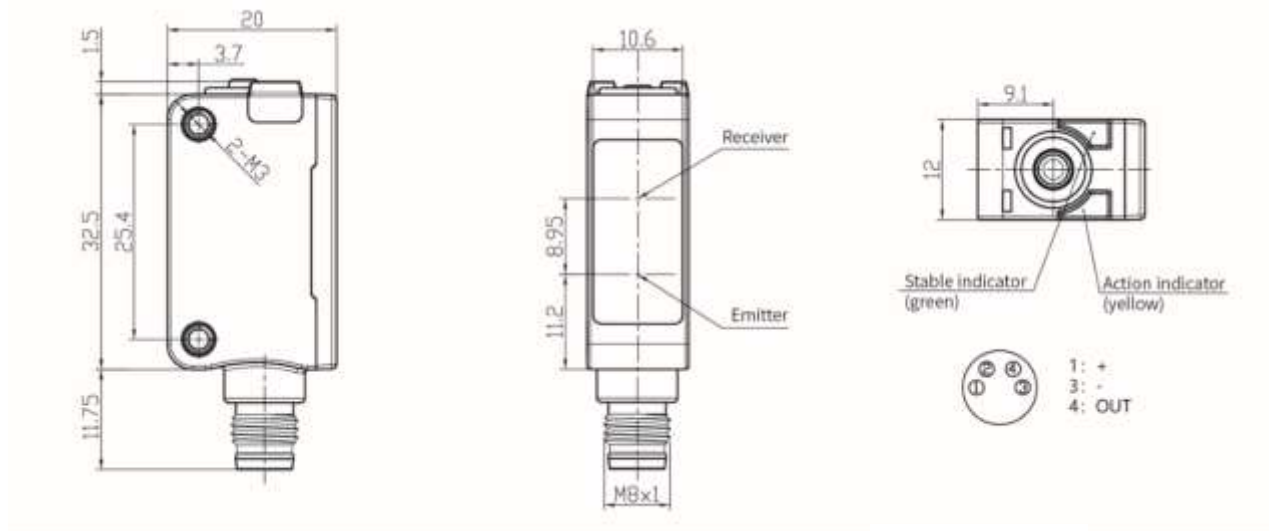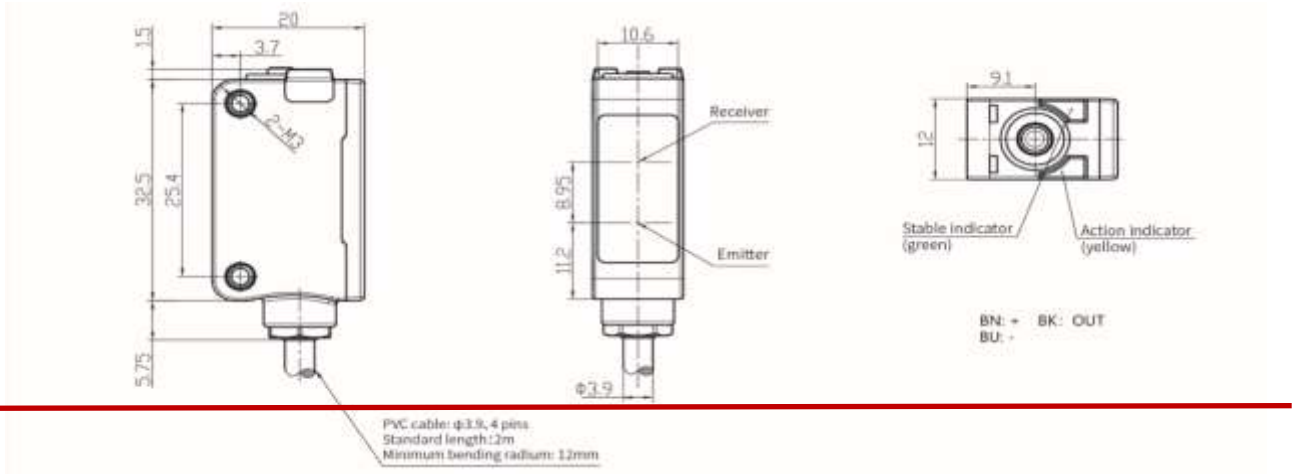
IP Rating	IP67

Additional Information

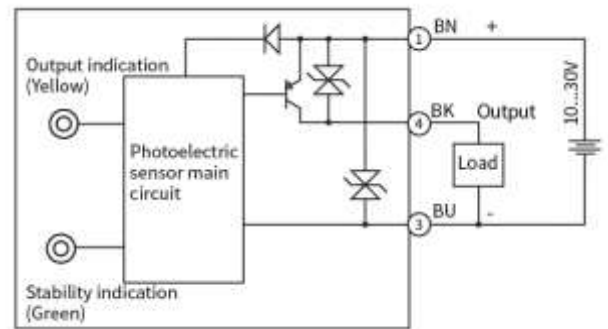| Custom Tariff Number/HS code	903180
NO/NC adjustment	Press the button for 5...8s, when the yellow and green light flash synchronously at 2Hz, leave the button and finish NO/NC adjustment.
Distance adjustment	Press the button for 2...5s, when the yellow and green light flash synchronously at 4Hz, leave the button and finish the distance setting; If the yellow and green light flash asynchronously @8Hz for 3s, setting fails and the product distance goes to the maximum.

Approvals

Compliance/Certifications	CE

Dimension and Wiring

Receiver

Emitter

Stable indicator (green)

Action indicator (yellow)

BN: +   BK: OUT
BU: -

PVC cable: φ3.9, 4 pins
Standard length: 2m
Minimum bending radius: 12mm

Receiver

Emitter

Stable indicator (green)

Action indicator (yellow)

1: +
3: -
4: OUT

M8×1

Output indication (Yellow)

Photoelectric sensor main circuit

Stability indication (Green)

BN   +
Load
BK   Output
10...30V
BU   -

NPN

Output indication (Yellow)

Photoelectric sensor main circuit

Stability indication (Green)

BN   +
BK   Output
Load
10...30V
BU   -

PNP