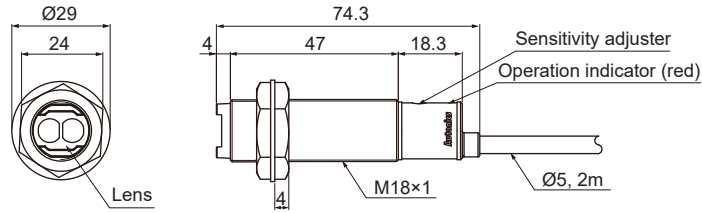


BR Series

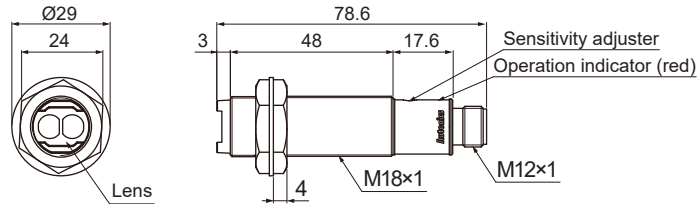
■ Dimensions

(unit: mm)

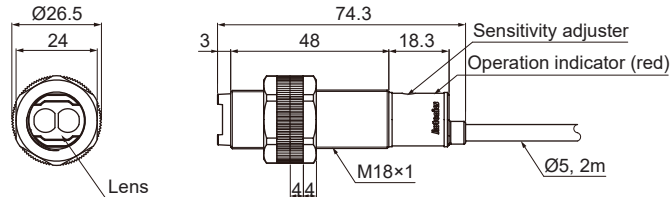
• BR200-DDTN(-P)



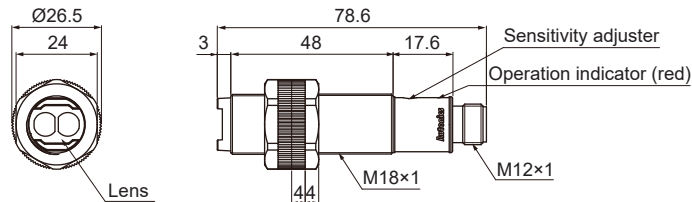
• BR200-DDTN-C(-P)



• BRP200-DDTN(-P)

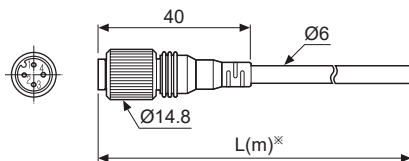


• BRP200-DDTN-C(-P)

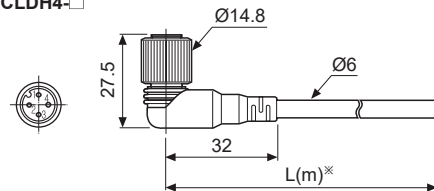


• Connection cable (sold separately)

• CIDH4-□

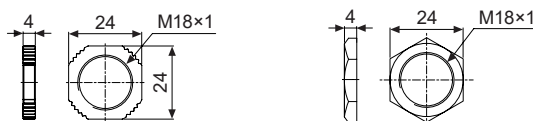


• CLDH4-□



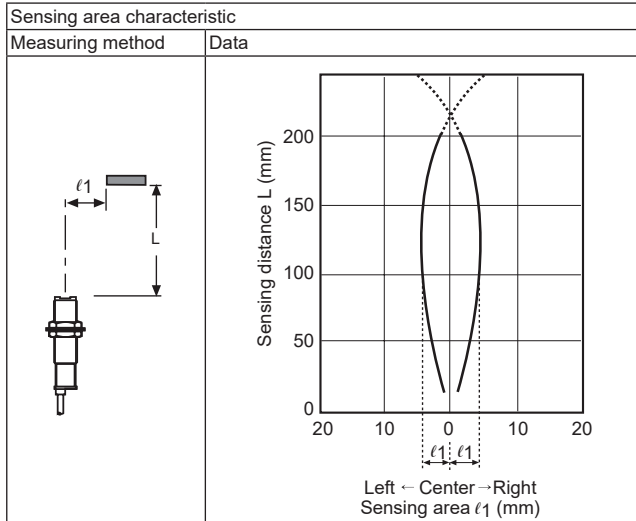
※ Specification of connector cable: $\text{Ø}6\text{mm}$, 4-wire, 2m/3m/5m/7m
 (AWG22, core diameter: 0.08mm, number of cores: 60, insulator out diameter: $\text{Ø}1.65\text{mm}$)
 ※ Please refer to the connector cable section.

• M18 fixing nut

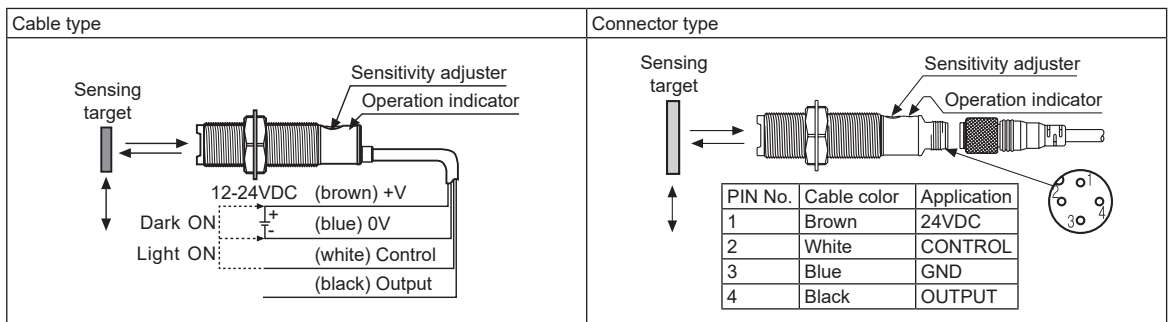


Feature Data

●BR200-DDTN- □(-P)/BRP200-DDTN- □(-P)

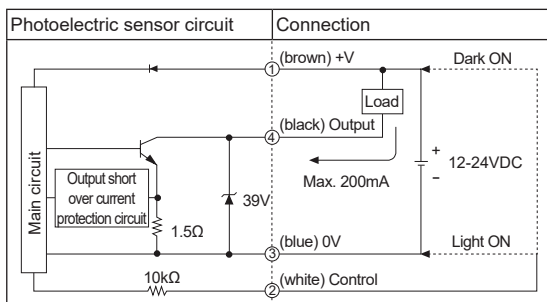


Connections

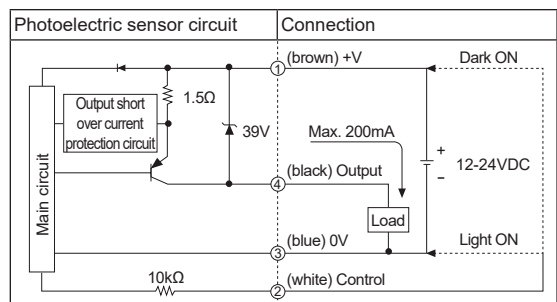


Control Output Diagram

● NPN open collector output



● PNP open collector output



※Before using this unit, select Light ON/Dark ON with control wire. (light on: connect control wire 0V / dark on: connect control wire with +V)
 ※If short-circuit the control output terminal or supply current over the rated specification, normal control signal is not output due to the output short over current protection circuit.

SENSORS

CONTROLLERS

MOTION DEVICES

SOFTWARE

(A) Photoelectric Sensors

(B) Fiber Optic Sensors

(C) LiDAR

(D) Door/Area Sensors

(E) Vision Sensors

(F) Proximity Sensors





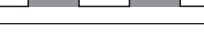

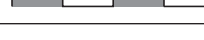

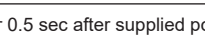

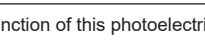

(G) Pressure Sensors

(H) Rotary Encoders

(I) Connectors/ Connector Cables/ Sensor Distribution Boxes/ Sockets

BR Series

■ Operation Mode

Operation mode	Light ON	Dark ON
Receiver operation	Received light  Interrupted light 	Received light  Interrupted light 
Operation indicator (red LED)	ON  OFF 	ON  OFF 
Transistor output	ON  OFF 	ON  OFF 

※The transistor output will be held OFF for 0.5 sec after supplied power in order to prevent malfunction of this photoelectric sensor.

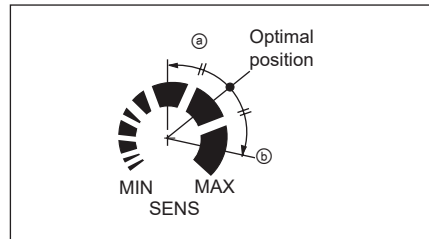
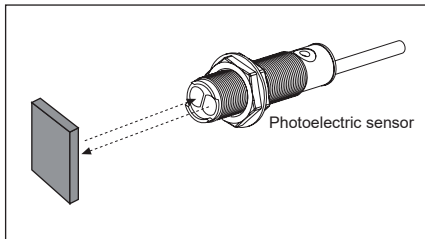
■ Installation and Sensitivity Adjustment

Install the sensor to the desired place and check the connections. Supply the power to the sensor and adjust the optical axis and the sensitivity as following.

When using photoelectric sensors closely over two units, it may result in malfunction due to mutual interference.

When installing the product, tighten the screw with a tightening torque of 0.39N·m for BRP and to 14.7N·m for BR.

1. The sensitivity should be adjusted depending on a sensing target or mounting place.
2. Set the target at a position to be detected by the beam, then turn the Sensitivity adjuster until position ㉑ where the operation indicator turns ON from min. position of the Sensitivity adjuster.
3. Take the target out of the sensing area, then turn the Sensitivity adjuster until position ㉒ where the operation indicator turns ON. If the indicator dose not turn ON, max. position is ㉓.
4. Set the Sensitivity adjuster at the center of two switching position ㉑, ㉒.



※Be sure that it can be different by size, surface and gloss of target.