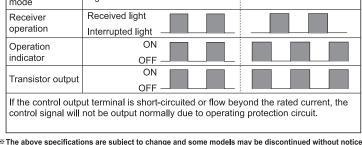
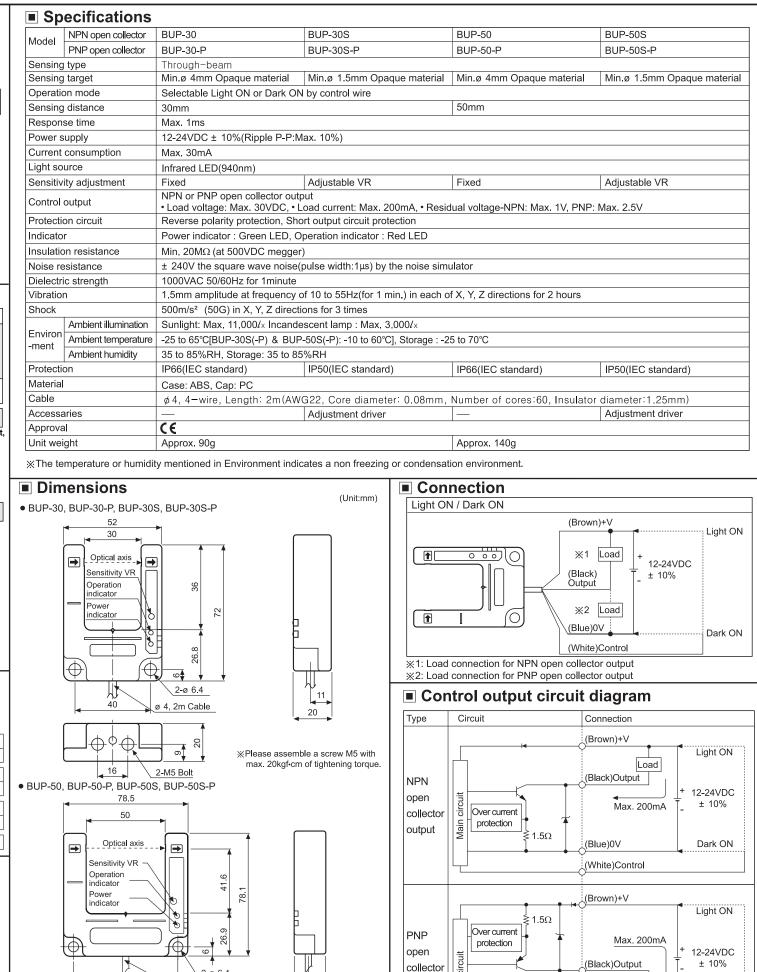
Autonics PHOTOELECTRIC SENSOR **BUP SERIES** MANUA CE Thank you very much for selecting Autonics products. For your safety, please read the following before using. Caution for your safety XPlease keep these instructions and review them before using this unit. *Please observe the cautions that follow **Warning** Serious injury may result if instructions are not followed. Product may be damaged, or injury may result if instructions are **∆** Caution not followed %The following is an explanation of the symbols used in the operation manual Δ Caution: Injury or danger may occur under special conditions. **Warning** 1. In case of using this unit with machinery (Ex: nuclear power control, medical equipme ship, vehicle, train, airplane, combustion apparatus, safety device, crime/disaster prevention equipment, etc) which may cause damages to human life or property, it is required to install fail-safe device. It may cause a fire, human injury or damage to property. 2. Do not disassemble and modify this unit. Please contact us if it is required. It may cause electric shock or a fire. **∧** Caution 1. This unit shall not be used outdoors. It might shorten the life cycle of the product or cause electric shock. Use this product inside only. Do not use the product outdoors or location subject to temperatures or humidity outside. (Ex: rain, dirty, frost, sunlight, condensation, etc.) 2. Do not use this unit in place where there is flammable or explosive gas It may cause a fire or explosion 3. Please observe the rated voltage and do not supply AC power. It may cause damage to this unit. 4. Please check the polarity of power and wrong wiring It may cause damage to this unit. 5. Do not use this unit in place where there is vibration or impact. It may cause damage to this unit. 6. In cleaning the unit, do not use water or an oil-based detergent. It may cause electric shock or a fire. Ordering information BUP-50 S-P No mark NPN open collector output Control output PNP open collector output P **No mark** Fixed sensitivity type Sensitivity adjustment Adjustable sensitivity VR built-in type S 30 30mm Sensing distance 50 50mm Item BUP Photoelectric sensor Operation mode Operation Light ON Dark ON mode Received light Receiver operation Interrupted light





<u>2-ø</u>6.4

ø 4. 2m Cable

o**t**

2-M8 Bol

66

0

32

11

20

×Please assemble a screw M8 with

max. 50kgf.cm of tightening torque

output

7. When it is stained by dirt at lens, please clean the lens with dry cloth, but do not use an organic materials such as alkali, acid, chromic acid. 8. When use switching power supply as the source of supplying power, F.G. terminal shall be grounded and a condenser for removing noise shall be installed between 0V and F.G. terminal.

Load

Dark ON

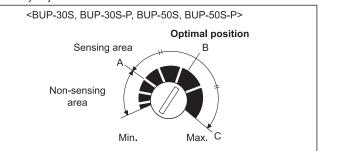
(Blue)0V

(White)Control

Mounting & Adjustment

Check the position where the photoelectric sensor will be used and the connection then supply the power and set sensitivity as below.

Sensitivity adjustment



When place a target within sensing range of sensor, turn the VR from the minimum position and check the position 'A' where the operation indicator is turned on (Dark ON) or turned off (Light ON).

Turn the VR to 'B' in the middle between 'A' and 'C' which is the maximum sensitivity position, this will be the optimal sensitivity position. (The operation indicator is able to be operated where the lowest sensitivity position.)

Caution for using

1. Intercept a strong source of light as like sunlight, spotlight within inclination angle range of photoelectric sensor.

2. The photoelectric sensor may cause malfunction under the fluorescent lamp light, so be sure to use cut-off light with panel.

3. When wire the photoelectric sensor with high voltage line or power line in the same conduit, it may cause malfunction or mechanical trouble. Therefore please wire separately or use different conduit.

4. Avoid installing the unit where there is severe corrosive gas, or dust, etc. 5. In case of connect DC relay as inductive load to output, please remove surges by using diode or varistor.

6. The photoelectric sensor cable shall be used as short as possible. because it may cause malfunction by noise through the cable.

