

# Autonics

## LCD Display Fiber Optic Amplifier BFX SERIES

### INSTRUCTION MANUAL



Thank you for choosing our Autonics products.

Please read the following safety considerations before use.

#### Safety Considerations

• Please observe all safety considerations for safe and proper product operation to avoid hazards.  
• **⚠** symbol represents caution due to special circumstances in which hazards may occur.

**⚠ Warning** Failure to follow these instructions may result in serious injury or death.

**⚠ Caution** Failure to follow these instructions may result in personal injury or product damage.

**⚠ Warning**

1. Fail-safe device must be installed when using the unit with machinery that may cause serious injury or substantial economic loss. (e.g. nuclear power control, medical equipment, ships, vehicles, railways, aircraft, combustion apparatus, safety equipment, crime/disaster prevention devices, etc.)  
Failure to follow this instruction may result in fire, personal injury, or economic loss.

2. Install the unit on DIN rail to use.  
Failure to follow this instruction may result in fire.

3. Do not connect, repair, or inspect the unit while connected to a power source.  
Failure to follow this instruction may result in fire.

4. Check 'Connections' before wiring.  
Failure to follow this instruction may result in fire.

5. Do not disassemble or modify the unit.  
Failure to follow this instruction may result in fire.

**⚠ Caution**

1. Use the unit within the rated specifications.  
Failure to follow this instruction may result in fire or product damage.

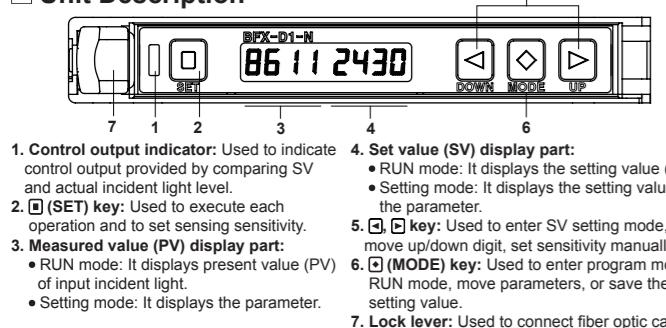
2. Use dry cloth to clean the unit, and do not use water or organic solvent.  
Failure to follow this instruction may result in fire.

3. Do not use the unit in the place where flammable/explosive/corrosive gas, humidity, direct sunlight, radiant heat, vibration, impact, or salinity may be present.  
Failure to follow this instruction may result in fire or explosion.

#### Model

Model	Light source	Display part	Control output
BFX-D1-N	Red LED	Dual display	NPN open collector output
BFX-D1-P			PNP open collector output

#### Unit Description



1. Control output indicator: Used to indicate control output provided by comparing SV and actual incident light level.

2. **[SET]** Key: Used to execute each operation and to set sensing sensitivity.

3. Measured value (PV) display part:

• RUN mode: It displays present value (PV) of input incident light.

• Setting mode: It displays the parameter.

4. Set value (SV) display part:

• RUN mode: It displays the setting value (SV).

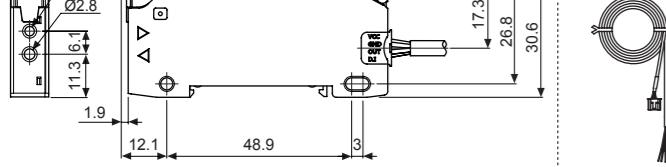
• Setting mode: It displays the setting value of the parameter.

5. **[MODE]** Key: Used to enter SV setting mode, move up/down digit, set sensitivity manually.

6. **[SET]** Key: Used to enter program mode, RUN mode, move parameters, or save the setting value.

7. Lock lever: Used to connect fiber optic cable.

Dimensions (unit: mm)



#### Accessories

• Connector type wire (length: 2m)

• Lock lever

• Fiber optic cable (length: 2m)

• 35mm DIN rail

• Installation tool

• Removal tool

• Instruction manual

• Quick start guide

• Power cord

• Mounting hardware

• User manual

• Safety instructions

• WEEE Declaration

• CE Declaration

• RoHS Declaration

• Declaration of Conformity

• Declaration of Conformity (EU)

• Declaration of Conformity (Korea)

• Declaration of Conformity (China)

• Declaration of Conformity (Japan)

• Declaration of Conformity (Australia)

• Declaration of Conformity (New Zealand)

• Declaration of Conformity (India)

• Declaration of Conformity (Brazil)

• Declaration of Conformity (Russia)

• Declaration of Conformity (Turkey)

• Declaration of Conformity (Other)

• Declaration of Conformity (Other)