



# OMRON

## Model ZFX-XEQ

Digital Equalizer

### INSTRUCTION SHEET

Thank you for selecting OMRON product. This sheet primarily describes precautions required in installing and operating the product.

Before operating the product, read the sheet thoroughly to acquire sufficient knowledge of the product. For your convenience, keep the sheet at your disposal.

#### TRACEABILITY INFORMATION:

Representative in EU: OMRON Europe B.V. Wegalaan 67-69, 2132 JD Hoofddorp, The Netherlands  
 Manufacturer: OMRON Corporation, Shiokoji Horikawa, Shimogyo-ku, Kyoto 600-8530 JAPAN  
 Ayabe Factory, 3-2 Narutani, Nakayama-cho, Ayabe-shi, Kyoto 623-0105 JAPAN

The following notice applies only to products that carry the CE mark:  
 Notice: This is a class A product. In residential areas it may cause radio interference, in which case the user may be required to take adequate measures to reduce interference.



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### PRECAUTIONS ON SAFETY

#### ● Meanings of Signal Words

#### ⚠ WARNING

Indicates a potentially hazardous situation which, if not avoided, will result in minor or moderate injury, or may result in serious injury or death. Additionally there may be significant property damage.

#### ● Meaning of Alert Symbols

#### ⚠ WARNING

This product is not designed or rated for ensuring safety of persons. Do not use it for such purpose.

Do not touch the terminals while the power is ON. They may cause an electric shock.

Do not disassemble or touch the interior while the power is ON. This may cause an electric shock.

### PRECAUTIONS FOR SAFE USE

#### 1. Installation Environment

Please observe the following precautions to prevent failure to operate, malfunctions, or undesirable effects for safe use of the products

- Do not use the product in environments where it can be exposed to inflammable/explosive gas.
- To secure the safety of operation and maintenance, do not install the product close to high-voltage devices and power devices.

#### 2. Power Supply and Wiring

- High-voltage lines and power lines must be wired separately from this product. Wiring them together or placing them in the same duct may cause induction, resulting in malfunction or damage.
- Please connect it with a special device (Sensor Head, Controller).

#### 3. Others

- Do not attempt to dismantle, repair, or modify the product.
- Please do not use ZFX for the safety circuit such as devices related to nuclear power and life.
- Dispose of this product as industrial waste.
- If you suspect an error or malfunction, stop using the controller immediately, turn off the power supply, and consult your OMRON representative.

### PRECAUTIONS FOR CORRECT USE

Please observe the following precautions to prevent failure to operate, malfunctions, or undesirable effects on product performance.

#### 1. Do not install the product in locations subjected to the following conditions:

- Ambient temperature outside the rating
- Rapid temperature fluctuations (causing condensation)
- Relative humidity outside the range of 35 to 85%
- Presence of corrosive or flammable gases
- Presence of dust, salt, or iron particles
- Direct vibration or shock
- Direct sunlight or near heaters
- Water, oil, or chemical fumes or spray
- Strong magnetic or electric field

#### 2. Do not install the product in locations subjected to the following conditions:

- Before connecting/disconnecting the connectors, make sure that the Amplifier Unit is turned OFF. The Extension Cable may break down if it is connected or disconnected while the power is ON.
- Tighter mounting screws at the torque specified. Recommended screw tightening torque: 0.15N·m
- Fasten the connector connections of this product before use to prevent this product from moving.
- The length of a total cable is made within 28.4m between Controller and Camera.
- Please do not use it for ZFX-XEQ□□ excluding a special extension cable (ZFX-XC□□BR).

#### 3. Cleaning

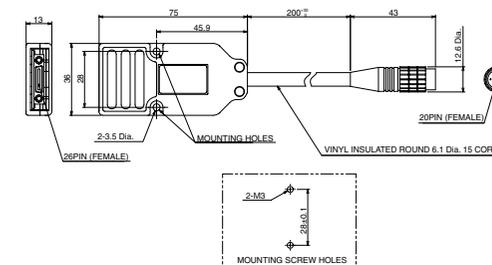
- Do not use paint thinner, benzene, acetone, or kerosene for cleaning.

### Specifications

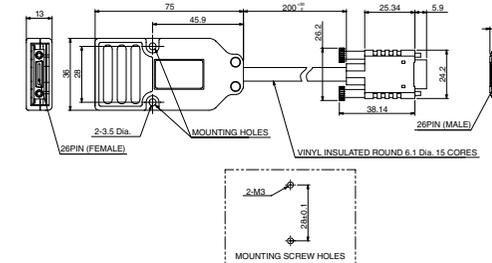
Item	ZFX-XEQ01	ZFX-XEQ02
Applicable controller	ZFX-C Serie	
Applicable	ZFX-S Serie	
Vibration resistance	10~150Hz ; half-amplitude: 0.35mm (Acceleration: max. 50m/s <sup>2</sup> ) 10 times each X, Y and Z directions for 8min	
Shock resistance	150m/s, 3 times each in 6 directions	
Ambient temperature	Operating: 0 to +50°C, Storage: -25 to +65°C (with no icing or condensation)	
Ambient humidity	Operating and Storage: 35 to 85%RH	
Ambient environment	No corrosive gases	
Degree of protection	IE60529 IP20	
Connection method	Double-end connector	
Connected position	Camera side	Controller side
Weight	Approx. 60g	
Material	Case: Polycarbonate (PC)	
Cable length	0.2m	
Minimum bend radius	40mm	

### Dimension

#### · ZFX-XEQ01



#### · ZFX-XEQ02

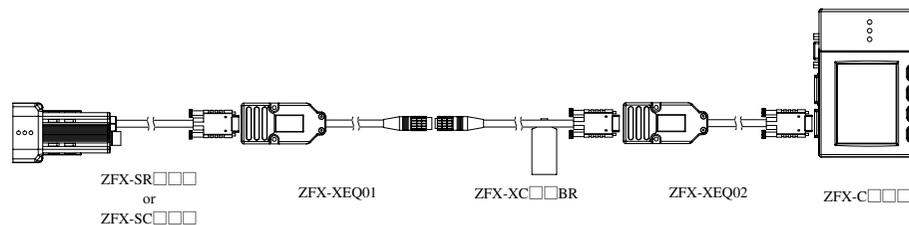


[UNIT:mm]

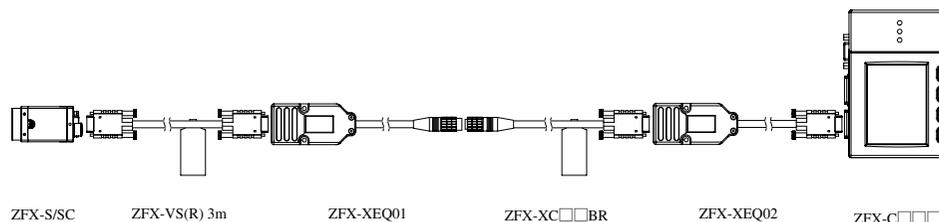
### Connection method

Please connect it as shown in the figure below when you connect ZFX-XEQ□□ and ZFX-XC□□BR with ZFX-S Series and ZFX-C Series.

· ZFX-SR□□□ or ZFX-SC□□□



· ZFX-S/SC



### Suitability for Use

THE PRODUCTS CONTAINED IN THIS SHEET ARE NOT SAFETY RATED. THEY ARE NOT DESIGNED OR RATED FOR ENSURING SAFETY OF PERSONS, AND SHOULD NOT BE RELIED UPON AS A SAFETY COMPONENT OR PROTECTIVE DEVICE FOR SUCH PURPOSES. Please refer to separate catalogs for OMRON's safety rated products.

OMRON shall not be responsible for conformity with any standards, codes, or regulations that apply to the combination of the products in the customer's application or use of the product.

Take all necessary steps to determine the suitability of the product for the systems, machines, and equipment with which it will be used. Know and observe all prohibitions of use applicable to this product.

NEVER USE THE PRODUCTS FOR AN APPLICATION INVOLVING SERIOUS RISK TO LIFE OR PROPERTY WITHOUT ENSURING THAT THE SYSTEM AS A WHOLE HAS BEEN DESIGNED TO ADDRESS THE RISKS, AND THAT THE OMRON PRODUCT IS PROPERLY RATED AND INSTALLED FOR THE INTENDED USE WITHIN THE OVERALL EQUIPMENT OR SYSTEM. See also Product catalog for Warranty and Limitation of Liability.

- EUROPE  
OMRON EUROPE B.V. Sensor Business Unit  
Carl-Benz Str.4, D-71154 Nufringen Germany  
Phone: 49-7032-811-0 Fax: 49-7032-811-199
- NORTH AMERICA  
OMRON ELECTRONICS LLC  
One Commerce Drive Schaumburg, IL 60173-5302 U.S.A.  
Phone: 1-847-843-7900 Fax: 1-847-843-7787
- ASIA-PACIFIC  
OMRON ASIA PACIFIC PTE. LTD.  
No. 438A Alexandra Road #05-05-08 (Lobby 2),  
Alexandra Technopark, Singapore 119967  
Phone: 65-6835-3011 Fax: 65-6835-2711
- CHINA  
OMRON(CHINA) CO., LTD.  
Room 2211, Bank of China Tower,  
200 Yin Cheng Zhong Road,  
PuDong New Area, Shanghai, 200120, China  
Phone: 86-21-5037-2222 Fax: 86-21-5037-2200

OMRON Corporation

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