

## Rugged Rotary Encoder

- Absolute model.
- External diameter of 60 mm.
- Resolution of up to 1,024 (10-bit).
- IP65 oil-proof protection.
- Strong shaft.  
Radial: 120 N, Thrust: 50 N



Be sure to read *Safety Precautions* on page 5.

## Ordering Information

**Encoders** [Refer to *Dimensions* on page 6.]

| Power supply voltage | Output configuration                                           | Output code | Resolution (divisions) | Connection method               | Model                                                                 |
|----------------------|----------------------------------------------------------------|-------------|------------------------|---------------------------------|-----------------------------------------------------------------------|
| 5 to 12 VDC          | NPN open collector                                             | BCD         | 360                    | Pre-wired Model                 | <b>E6F-AB3C 360P/R 2M *2</b>                                          |
|                      |                                                                |             |                        | Pre-wired Connector Model (2 m) | <b>E6F-AB3C-C 360P/R 2M *2</b>                                        |
|                      |                                                                |             |                        | Pre-wired Model                 | <b>E6F-AB5C 360P/R 2M</b>                                             |
|                      |                                                                |             |                        | Pre-wired Connector Model (2 m) | <b>E6F-AB5C-C 360P/R 2M</b>                                           |
| 12 to 24 VDC         | PNP open collector                                             |             |                        | Pre-wired Model                 | <b>E6F-AB5B 360P/R 2M</b>                                             |
|                      | NPN open collector                                             | Gray code   | 256, 360, 720          | Pre-wired Connector Model (2 m) | <b>E6F-AG5C-C (resolution) 2M *1</b><br>Example: E6F-AG5C-C 256P/R 2M |
|                      |                                                                |             | 256, 360, 720, 1,024   | Pre-wired Model                 | <b>E6F-AG5C (resolution) 2M</b><br>Example: E6F-AG5C 256P/R 2M        |
|                      | <b>E6F-AG5B (resolution) 2M</b><br>Example: E6F-AG5B 256P/R 2M |             |                        |                                 |                                                                       |
|                      |                                                                |             |                        |                                 |                                                                       |

\*1. The E6F-AG5C-C is designed for connection to Cam Positioners (H8PS).

\*2. Models are also available with 5-m and 10-m cables.

## Accessories (Order Separately)

[Dimensions: Refer to *Accessories* for coupling dimensions and to page 6 for the dimensions of other accessories.]

| Name                   | Model            | Remarks                                               |                                                      |
|------------------------|------------------|-------------------------------------------------------|------------------------------------------------------|
| Couplings              | <b>E69-C10B</b>  | Provided with E6F Pre-wired Models.                   |                                                      |
|                        | <b>E69-C610B</b> | Different end diameter                                |                                                      |
|                        | <b>E69-C10M</b>  | Metal construction                                    |                                                      |
| Servo Mounting Bracket | <b>E69-2</b>     | Provided with the product. (Three brackets in a set.) |                                                      |
| Extension Cable        | <b>E69-DF5</b>   | 5 m                                                   | Models are also available with 15-m and 98-m cables. |
|                        | <b>E69-DF10</b>  | 10 m                                                  |                                                      |
|                        | <b>E69-DF20</b>  | 20 m                                                  |                                                      |

Refer to *Accessories* for details.

## Ratings and Specifications

| Item                           | Model                                                                                                                                                                             | E6F-AB3C-C                                    | E6F-AB3C                                      | E6F-AB5C-C                                        | E6F-AB5C | E6F-AB5B                                                                                | E6F-AG5C-C                                                                                                          | E6F-AG5C                                      | E6F-AG5B                                                                                |
|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|-----------------------------------------------|---------------------------------------------------|----------|-----------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|-----------------------------------------------------------------------------------------|
| Power supply voltage           | 5 VDC −5% to 12 VDC +10%, ripple (p-p): 5% max.                                                                                                                                   |                                               |                                               | 12 VDC −10% to 24 VDC +15%, ripple (p-p): 5% max. |          |                                                                                         |                                                                                                                     |                                               |                                                                                         |
| Current consumption*1          | 60 mA max.                                                                                                                                                                        |                                               |                                               |                                                   |          |                                                                                         |                                                                                                                     |                                               |                                                                                         |
| Resolution (pulses/rotation)*2 | 360                                                                                                                                                                               |                                               |                                               |                                                   |          |                                                                                         | 256, 360, 720                                                                                                       | 256, 360, 720, 1024                           |                                                                                         |
| Output code                    | BCD                                                                                                                                                                               |                                               |                                               |                                                   |          |                                                                                         | Gray code                                                                                                           |                                               |                                                                                         |
| Output configuration           | NPN open-collector output                                                                                                                                                         |                                               |                                               |                                                   |          | PNP open-collector output                                                               | NPN open-collector output                                                                                           |                                               | PNP open-collector output                                                               |
| Output capacity                | Applied voltage: 30 VDC max.<br>Sink current: 35 mA max.<br>Residual voltage: 0.4 V max. (at sink current of 35 mA)                                                               |                                               |                                               |                                                   |          | Source current: 35 mA max.<br>Residual voltage: 0.4 V max. (at source current of 35 mA) | Applied voltage: 30 VDC max.<br>Sink current: 35 mA max.<br>Residual voltage: 0.4 V max. (at sink current of 35 mA) |                                               | Source current: 35 mA max.<br>Residual voltage: 0.4 V max. (at source current of 35 mA) |
| Maximum response frequency*3   | 10 kHz                                                                                                                                                                            |                                               |                                               |                                                   |          |                                                                                         | 20 kHz                                                                                                              |                                               |                                                                                         |
| Logic                          | Negative logic (high = 0, low = 1)                                                                                                                                                |                                               |                                               |                                                   |          | Positive logic (high = 1, low = 0)                                                      | Negative logic (high = 0, low = 1)                                                                                  |                                               | Positive logic (high = 1, low = 0)                                                      |
| Direction of rotation          | Output code incremented by CW (as viewed from the end of the shaft)                                                                                                               |                                               |                                               |                                                   |          |                                                                                         |                                                                                                                     |                                               |                                                                                         |
| Rise and fall times of output  | 1 μs max. (E6F-AB3C, A□5C: Load voltage: 5 V, Load resistance: 1 kΩ, Output cable: 2 m max.; E6F-A□5B: Power supply voltage: 12 V, Load resistance: 1 kΩ, Output cable: 2 m max.) |                                               |                                               |                                                   |          |                                                                                         |                                                                                                                     |                                               |                                                                                         |
| Starting torque                | 9.8 mN·m max. at room temperature, 14.7 mN·m max. at low temperature                                                                                                              |                                               |                                               |                                                   |          |                                                                                         |                                                                                                                     |                                               |                                                                                         |
| Moment of inertia              | 1.5 × 10 <sup>−6</sup> kg·m <sup>2</sup> max.                                                                                                                                     |                                               |                                               |                                                   |          |                                                                                         |                                                                                                                     |                                               |                                                                                         |
| Shaft loading                  | Radial                                                                                                                                                                            | 120 N                                         |                                               |                                                   |          |                                                                                         |                                                                                                                     |                                               |                                                                                         |
|                                | Thrust                                                                                                                                                                            | 50 N                                          |                                               |                                                   |          |                                                                                         |                                                                                                                     |                                               |                                                                                         |
| Maximum permissible speed      | 5000 r/min                                                                                                                                                                        |                                               |                                               |                                                   |          |                                                                                         |                                                                                                                     |                                               |                                                                                         |
| Ambient temperature range      | Operating: −10 to 70°C (with no icing), Storage: −25 to 80°C (with no icing)                                                                                                      |                                               |                                               |                                                   |          |                                                                                         |                                                                                                                     |                                               |                                                                                         |
| Ambient humidity range         | Operating: 35% to 85% (with no condensation), Storage: 35% to 95% (with no condensation)                                                                                          |                                               |                                               |                                                   |          |                                                                                         |                                                                                                                     |                                               |                                                                                         |
| Insulation resistance          | 20 MΩ min. (at 500 VDC) between current-carrying parts and case                                                                                                                   |                                               |                                               |                                                   |          |                                                                                         |                                                                                                                     |                                               |                                                                                         |
| Dielectric strength            | 500 VAC, 50/60 Hz for 1 min between current-carrying parts and case                                                                                                               |                                               |                                               |                                                   |          |                                                                                         |                                                                                                                     |                                               |                                                                                         |
| Vibration resistance           | 10 to 500 Hz, 1.5-mm double amplitude for 11 min 3 times each in X, Y, and Z directions                                                                                           |                                               |                                               |                                                   |          |                                                                                         |                                                                                                                     |                                               |                                                                                         |
| Shock resistance               | Destruction: 1,000 m/s <sup>2</sup> 3 times each in X, Y, and Z directions                                                                                                        |                                               |                                               |                                                   |          |                                                                                         |                                                                                                                     |                                               |                                                                                         |
| Degree of protection           | IEC 60529 IP65, in-house standards: oilproof                                                                                                                                      |                                               |                                               |                                                   |          |                                                                                         |                                                                                                                     |                                               |                                                                                         |
| Connection method              | Connector Models (Standard cable length: 2 m)                                                                                                                                     | Pre-wired Models (Standard cable length: 2 m) | Connector Models (Standard cable length: 2 m) | Pre-wired Models (Standard cable length: 2 m)     |          |                                                                                         | Connector Models (Standard cable length: 2 m)                                                                       | Pre-wired Models (Standard cable length: 2 m) |                                                                                         |
| Material                       | Case: Zinc alloy, Main unit: Aluminum, Shaft: SUS420J2, Mounting Bracket: Galvanized iron                                                                                         |                                               |                                               |                                                   |          |                                                                                         |                                                                                                                     |                                               |                                                                                         |
| Weight (packed state)          | Approx. 500 g                                                                                                                                                                     |                                               |                                               |                                                   |          |                                                                                         |                                                                                                                     |                                               |                                                                                         |
| Accessories                    | Servo Mounting Bracket, Coupling (provided with Pre-wired Models only), Hexagonal wrench (provided with Pre-wired Models only), Instruction manual                                |                                               |                                               |                                                   |          |                                                                                         |                                                                                                                     |                                               |                                                                                         |

\*1. An inrush current of approximately 9 A will flow for approximately 5 μs when the power is turned ON.

\*2. The code is as follows:

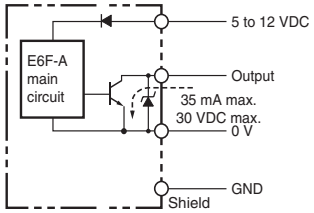
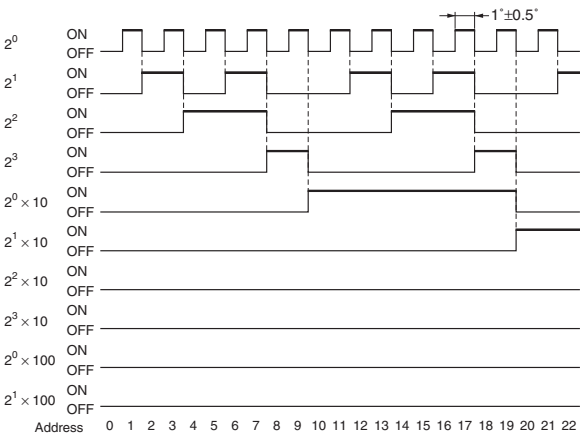
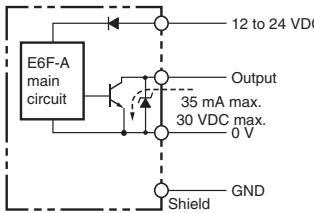
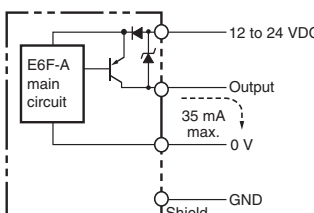
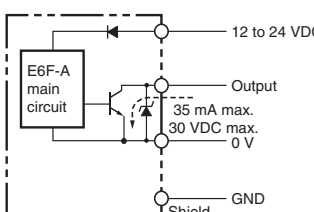
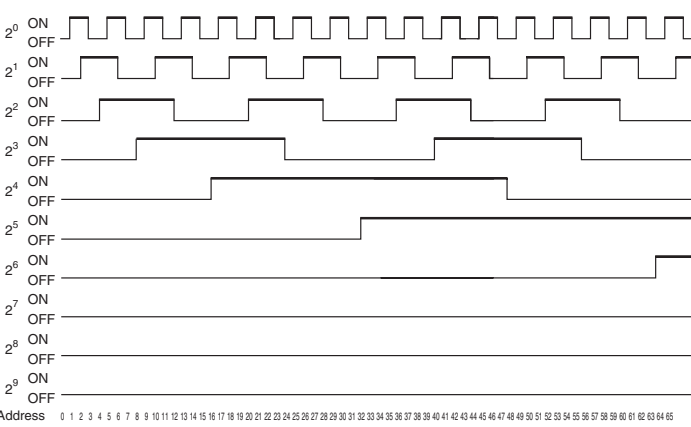
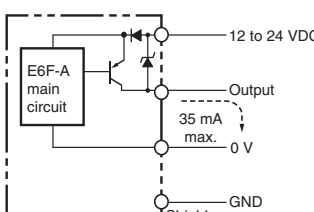
| Output code | Resolution | Code No.                    |
|-------------|------------|-----------------------------|
| BCD         | 360        | 0 to 359                    |
|             | 256        | 0 to 255                    |
| Gray code   | 360        | 76 to 435 (gray after 76)   |
|             | 720        | 152 to 871 (gray after 152) |
|             | 1024       | 0 to 1023                   |

\*3. The maximum electrical response speed is determined by the resolution and maximum response frequency as follows:

$$\text{Maximum electrical response speed (rpm)} = \frac{\text{Maximum response frequency}}{\text{Resolution}} \times 60$$

\* This means that the Rotary Encoder will not operate electrically if its speed exceeds the maximum electrical response speed.

I/O Circuit Diagrams

| Model                  | Output Circuits                                                                                                                                                                                   | Output mode                                                                                                                                                                  |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| E6F-AB3C<br>E6F-AB3C-C |  <p>Note: The circuit is the same for all bit outputs.<br/>Each E6F-A Rotary Encoder has one main circuit.</p>   | <p>Direction of rotation: CW (as viewed from end of shaft)</p>                             |
| E6F-AB5C<br>E6F-AB5C-C |  <p>Note: The circuit is the same for all bit outputs.<br/>Each E6F-A Rotary Encoder has one main circuit.</p>   |                                                                                                                                                                              |
| E6F-AB5B               |  <p>Note: The circuit is the same for all bit outputs.<br/>Each E6F-A Rotary Encoder has one main circuit.</p>  |                                                                                                                                                                              |
| E6F-AG5C<br>E6F-AG5C-C |  <p>Note: The circuit is the same for all bit outputs.<br/>Each E6F-A Rotary Encoder has one main circuit.</p> | <p>Output transistor</p> <p>Direction of rotation: CW (as viewed from end of shaft)</p>  |
| E6F-AG5B               |  <p>Note: The circuit is the same for all bit outputs.<br/>Each E6F-A Rotary Encoder has one main circuit.</p> |                                                                                                                                                                              |

## Connection Specifications

### Connector Models\*

| Model   | E6F-AB3C-C/<br>-AB5C-C                      | E6F-AG5C-C           |                |                |
|---------|---------------------------------------------|----------------------|----------------|----------------|
|         | Output signal                               | Output signal        |                |                |
| Pin No. | 10-bit (360)                                | 8-bit (256)          | 9-bit (360)    | 10-bit (720)   |
| 1       | 2 <sup>0</sup>                              | Connected internally | Not connected  | 2 <sup>9</sup> |
| 2       | 2 <sup>1</sup>                              |                      | 2 <sup>8</sup> | 2 <sup>8</sup> |
| 3       | 2 <sup>2</sup>                              | 2 <sup>5</sup>       | 2 <sup>5</sup> | 2 <sup>5</sup> |
| 4       | 2 <sup>3</sup>                              | 2 <sup>1</sup>       | 2 <sup>1</sup> | 2 <sup>1</sup> |
| 5       | 2 <sup>0</sup> × 10                         | 2 <sup>0</sup>       | 2 <sup>0</sup> | 2 <sup>0</sup> |
| 6       | 2 <sup>1</sup> × 10                         | 2 <sup>7</sup>       | 2 <sup>7</sup> | 2 <sup>7</sup> |
| 7       | 2 <sup>2</sup> × 10                         | 2 <sup>4</sup>       | 2 <sup>4</sup> | 2 <sup>4</sup> |
| 8       | 2 <sup>3</sup> × 10                         | 2 <sup>2</sup>       | 2 <sup>2</sup> | 2 <sup>2</sup> |
| 9       | 2 <sup>0</sup> × 100                        | 2 <sup>3</sup>       | 2 <sup>3</sup> | 2 <sup>3</sup> |
| 10      | 2 <sup>1</sup> × 100                        | 2 <sup>6</sup>       | 2 <sup>6</sup> | 2 <sup>6</sup> |
| 11      | Shield (ground)                             |                      |                |                |
| 12      | -AB3C-C: 5 to 12 VDC, -AB5C-C: 12 to 24 VDC | 12 to 24 VDC         |                |                |
| 13      | 0 V (common)                                | 0 V (common)         |                |                |

\* Connector: RP13A-12PD-13SC (Hirose Electric Co., Ltd.)  
Note: Normally connect GND to 0 V or to an external ground.

### Pre-wired Model

| Model      | E6F-AB3C/<br>-AB5C/-AB5B                | E6F-AG5C/-AG5B  |                |                   |
|------------|-----------------------------------------|-----------------|----------------|-------------------|
|            | Output signal                           | Output signal   |                |                   |
| Wire color | 10-bit (360)                            | 8-bit (256)     | 9-bit (360)    | 10-bit (720,1024) |
| Brown      | 2 <sup>0</sup>                          | 2 <sup>0</sup>  | 2 <sup>0</sup> | 2 <sup>0</sup>    |
| Orange     | 2 <sup>1</sup>                          | 2 <sup>1</sup>  | 2 <sup>1</sup> | 2 <sup>1</sup>    |
| Yellow     | 2 <sup>2</sup>                          | 2 <sup>2</sup>  | 2 <sup>2</sup> | 2 <sup>2</sup>    |
| Green      | 2 <sup>3</sup>                          | 2 <sup>3</sup>  | 2 <sup>3</sup> | 2 <sup>3</sup>    |
| Blue       | 2 <sup>0</sup> × 10                     | 2 <sup>4</sup>  | 2 <sup>4</sup> | 2 <sup>4</sup>    |
| Purple     | 2 <sup>1</sup> × 10                     | 2 <sup>5</sup>  | 2 <sup>5</sup> | 2 <sup>5</sup>    |
| Gray       | 2 <sup>2</sup> × 10                     | 2 <sup>6</sup>  | 2 <sup>6</sup> | 2 <sup>6</sup>    |
| White      | 2 <sup>3</sup> × 10                     | 2 <sup>7</sup>  | 2 <sup>7</sup> | 2 <sup>7</sup>    |
| Pink       | 2 <sup>0</sup> × 100                    | Not connected   | 2 <sup>8</sup> | 2 <sup>8</sup>    |
| Light blue | 2 <sup>1</sup> × 100                    | Not connected   | Not connected  | 2 <sup>9</sup>    |
| ---        | Shield (ground)                         | Shield (ground) |                |                   |
| Red        | -AB3C: 5 to 12 VDC, -AB5C: 12 to 24 VDC | 12 to 24 VDC    |                |                   |
| Black      | 0 V (common)                            | 0 V (common)    |                |                   |

## Connection Example

### H8PS Cam Positioner Connection



### Ordering Information

| Model      |
|------------|
| H8PS-8A    |
| H8PS-8AP   |
| H8PS-8AF   |
| H8PS-8AFP  |
| H8PS-16A   |
| H8PS-16AP  |
| H8PS-16AF  |
| H8PS-16AFP |
| H8PS-32A   |
| H8PS-32AP  |
| H8PS-32AF  |
| H8PS-32AFP |

### Specifications

|                      |                                                                                                                                                                                                                                                                                                                                                                                                                          |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Rated voltage        | 24 VDC                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Cam precision        | 0.5° (for 720 resolution), 1° (for 256/360 resolution)                                                                                                                                                                                                                                                                                                                                                                   |
| No. of output points | 8-point output type:<br>8 cam outputs, 1 RUN output, 1 pulse output<br>16-point output type:<br>16 cam outputs, 1 RUN output, 1 pulse output<br>32-point output type:<br>32 cam outputs, 1 RUN output, 1 pulse output                                                                                                                                                                                                    |
| Encoder response     | RUN mode, test mode:<br>256/360 resolution ... 1,600 r/min max. (1,200 r/min when advance compensation is set for four cams or more)<br>720 resolution ..... 800 r/min max. (600 r/min when advance compensation is set for four cams or more)                                                                                                                                                                           |
| Additional functions | <ul style="list-style-type: none"> <li>• Origin compensation (zeroing)</li> <li>• Rotation direction switching</li> <li>• Angle display switching</li> <li>• Teaching</li> <li>• Pulse output</li> <li>• Angle/number of rotations display switching</li> <li>• Puncture *</li> <li>• Angle advance</li> <li>• Number of rotations alarm output</li> <li>• Setting with support software (order separately) *</li> </ul> |

Note: For 16-point and 32-point output types only

## Safety Precautions

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Refer to *Warranty and Limitations of Liability*.

### **WARNING**

This product is not designed or rated for ensuring safety of persons either directly or indirectly.  
Do not use it for such purposes.



### **Precautions for Correct Use**

Do not use the Encoder under ambient conditions that exceed the ratings.

#### ● **Adjustment**

##### **Reading the Output Code**

Read the code after the LSB (output  $2^0$ ) of the code changes for the E6F-AB3C and E6F-AB3C-C.

#### ● **Wiring**

Spurious pulses may be generated when power is turned ON and OFF. Wait at least 0.1 s after turning ON the power to the Encoder before using the connected device, and stop using the connected device at least 0.1 s before turning OFF the power to the Encoder. Also, turn ON the power to the load only after turning ON the power to the Encoder.

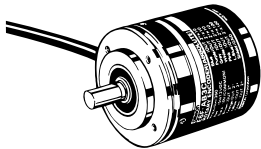
(Unit: mm)

## Dimensions

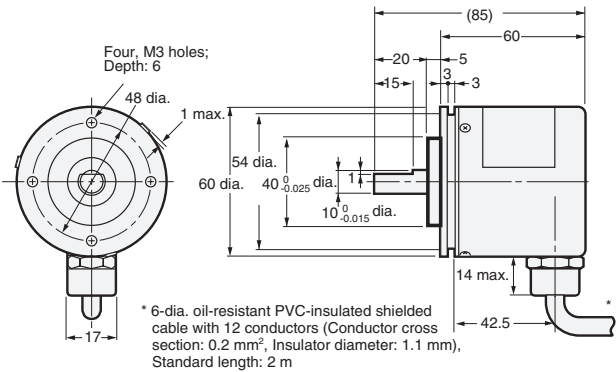
Tolerance class IT16 applies to dimensions in this datasheet unless otherwise specified.

### Encoder

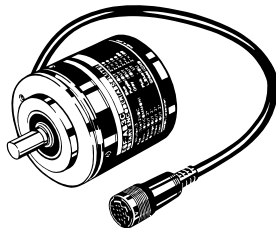
E6F-AB3C  
E6F-AB5C  
E6F-AG5C  
E6F-AG5B  
E6F-AB5B



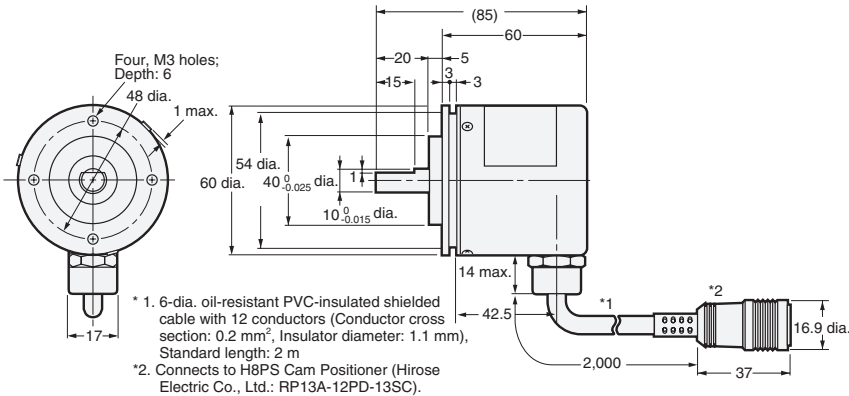
The E69-C10B Coupling is provided.



E6F-AB3C-C  
E6F-AB5C-C  
E6F-AG5C-C



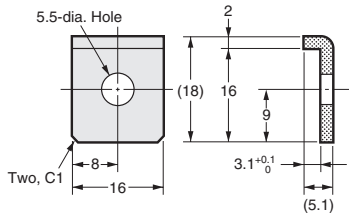
The E69-C10B Coupling is sold separately.



## Accessories (Order Separately)

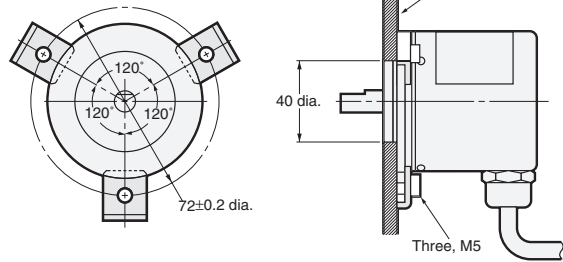
### Servo Mounting Bracket

E69-2



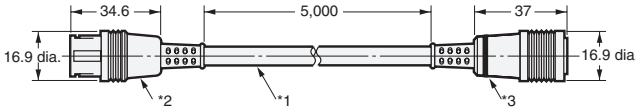
Note: Provided with the product.

### Mounting Bracket Installation



### Extension Cable

E69-DF5



Note: 1. The E69-DF5 (5 m) is also available with the following cable lengths: 10 m, 15 m, 20 m, and 98 m.  
2. Cable can be extended to 100 m when the H8PS Cam Positioner is connected.

### Couplings

E69-C10B  
E69-C610B  
E69-C10M

Refer to *Accessories* for details.

## Read and Understand This Catalog

Please read and understand this catalog before purchasing the products. Please consult your OMRON representative if you have any questions or comments.

## Warranty and Limitations of Liability

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## Application Considerations

### SUITABILITY FOR USE

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

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The following are some examples of applications for which particular attention must be given. This is not intended to be an exhaustive list of all possible uses of the products, nor is it intended to imply that the uses listed may be suitable for the products:

- Outdoor use, uses involving potential chemical contamination or electrical interference, or conditions or uses not described in this catalog.
- Nuclear energy control systems, combustion systems, railroad systems, aviation systems, medical equipment, amusement machines, vehicles, safety equipment, and installations subject to separate industry or government regulations.
- Systems, machines, and equipment that could present a risk to life or property.

Please know and observe all prohibitions of use applicable to the products.

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 PRODUCTS ARE PROPERLY RATED AND INSTALLED FOR THE INTENDED USE WITHIN THE OVERALL EQUIPMENT OR SYSTEM.

### PROGRAMMABLE PRODUCTS

OMRON shall not be responsible for the user's programming of a programmable product, or any consequence thereof.

## Disclaimers

### CHANGE IN SPECIFICATIONS

Product specifications and accessories may be changed at any time based on improvements and other reasons.

It is our practice to change model numbers when published ratings or features are changed, or when significant construction changes are made. However, some specifications of the products may be changed without any notice. When in doubt, special model numbers may be assigned to fix or establish key specifications for your application on your request. Please consult with your OMRON representative at any time to confirm actual specifications of purchased products.

### DIMENSIONS AND WEIGHTS

Dimensions and weights are nominal and are not to be used for manufacturing purposes, even when tolerances are shown.

### PERFORMANCE DATA

Performance data given in this catalog is provided as a guide for the user in determining suitability and does not constitute a warranty. It may represent the result of OMRON's test conditions, and the users must correlate it to actual application requirements. Actual performance is subject to the OMRON Warranty and Limitations of Liability.

### ERRORS AND OMISSIONS

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Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.

С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

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- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
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- Защиту от снятия компонента с производства.
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Тел: +7 (812) 336 43 04 (многоканальный)

Email: [org@lifeelectronics.ru](mailto:org@lifeelectronics.ru)

[www.lifeelectronics.ru](http://www.lifeelectronics.ru)