

## General-purpose Encoder with External Diameter of 40 mm

- Incremental model
- External diameter of 40 mm.
- Resolution of up to 2,000 ppr.



Be sure to read *Safety Precautions* on page 4.

## Ordering Information

### Encoders [Refer to *Dimensions* on page 4.]

| Power supply voltage | Output configuration      | Resolution (pulses/rotation)                              | Model                                                                  |
|----------------------|---------------------------|-----------------------------------------------------------|------------------------------------------------------------------------|
| 5 to 24 VDC          | NPN open-collector output | 10, 20, 30, 40, 50, 60, 100, 200, 300, 360, 400, 500, 600 | <b>E6B2-CWZ6C (resolution) 0.5M</b><br>Example: E6B2-CWZ6C 10P/R 0.5M  |
|                      |                           | 720, 800, 1,000, 1,024                                    |                                                                        |
|                      |                           | 1,200, 1,500, 1,800, 2,000                                |                                                                        |
| 12 to 24 VDC         | PNP open-collector output | 100, 200, 360, 500, 600                                   | <b>E6B2-CWZ5B (resolution) 0.5M</b><br>Example: E6B2-CWZ5B 100P/R 0.5M |
|                      |                           | 1,000                                                     |                                                                        |
|                      |                           | 2,000                                                     |                                                                        |
| 5 to 12 VDC          | Voltage output            | 10, 20, 30, 40, 50, 60, 100, 200, 300, 360, 400, 500, 600 | <b>E6B2-CWZ3E (resolution) 0.5M</b><br>Example: E6B2-CWZ3E 10P/R 0.5M  |
|                      |                           | 1,000                                                     |                                                                        |
|                      |                           | 1,200, 1,500, 1,800, 2,000                                |                                                                        |
| 5 VDC                | Line-driver output        | 10, 20, 30, 40, 50, 60, 100, 200, 300, 360, 400, 500, 600 | <b>E6B2-CWZ1X (resolution) 0.5M</b><br>Example: E6B2-CWZ1X 10P/R 0.5M  |
|                      |                           | 1,000, 1,024                                              |                                                                        |
|                      |                           | 1,200, 1,500, 1,800, 2,000                                |                                                                        |

### Accessories (Order Separately) [Refer to *Dimensions* on *Rotary Encoder Accessories*.]

| Name                   | Model            | Remarks                                |
|------------------------|------------------|----------------------------------------|
| Couplings              | <b>E69-C06B</b>  | Provided with the product.             |
|                        | <b>E69-C68B</b>  | Different end diameter                 |
|                        | <b>E69-C610B</b> | Different end diameter                 |
|                        | <b>E69-C06M</b>  | Metal construction                     |
| Flanges                | <b>E69-FBA</b>   | ---                                    |
|                        | <b>E69-FBA02</b> | E69-2 Servo Mounting Bracket provided. |
| Servo Mounting Bracket | <b>E69-2</b>     | ---                                    |

Refer to *Accessories* for details.

## Ratings and Specifications

| Item                             | Model  | E6B2-CWZ6C                                                                                                                 | E6B2-CWZ5B                                                                                                                 | E6B2-CWZ3E                                                                                                        | E6B2-CWZ1X                                                                                                                                                     |
|----------------------------------|--------|----------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Power supply voltage             |        | 5 VDC −5% to 24 VDC<br>+15%, ripple (p-p): 5% max.                                                                         | 12 VDC −10% to 24 VDC<br>+15%, ripple (p-p): 5% max.                                                                       | 5 VDC −5% to 12 VDC<br>+10%, ripple (p-p): 5% max.                                                                | 5 VDC ±5%, ripple (p-p):<br>5% max.                                                                                                                            |
| Current consumption *1           |        | 80 mA max.                                                                                                                 | 100 mA max.                                                                                                                |                                                                                                                   | 160 mA max.                                                                                                                                                    |
| Resolution (pulses/rotation)     |        | 10, 20, 30, 40, 50, 60, 100,<br>200, 300, 360, 400, 500, 600,<br>720, 800, 1,000, 1,024,<br>1,200, 1,500, 1,800, 2,000     | 100, 200, 360, 500, 600,<br>1,000, 2,000                                                                                   | 10, 20, 30, 40, 50, 60, 100,<br>200, 300, 360, 400, 500, 600,<br>1,000, 1,200, 1,500, 1,800,<br>2,000             | 10, 20, 30, 40, 50, 60, 100,<br>200, 300, 360, 400, 500, 600,<br>1,000, 1,024, 1,200, 1,500,<br>1,800, 2,000                                                   |
| Output phases                    |        | Phases A, B, and Z                                                                                                         |                                                                                                                            |                                                                                                                   | Phases A, $\bar{A}$ , B, $\bar{B}$ , Z, and $\bar{Z}$                                                                                                          |
| Phase difference between outputs |        | 90°±45° between A and B (1/4 T ± 1/8 T)                                                                                    |                                                                                                                            |                                                                                                                   |                                                                                                                                                                |
| Output configuration             |        | NPN open-collector output                                                                                                  | PNP open-collector output                                                                                                  | Voltage output (NPN output)                                                                                       | Line driver output *2                                                                                                                                          |
| Output capacity                  |        | Applied voltage: 30 VDC max.<br>Sink current: 35 mA max.<br>Residual voltage: 0.4 V max.<br>(at sink current of 35 mA)     | Applied voltage: 30 VDC max.<br>Source current: 35 mA max.<br>Residual voltage: 0.4 V max.<br>(at source current of 35 mA) | Output resistance: 2 kΩ<br>Sink current: 20 mA max.<br>Residual voltage: 0.4 V max.<br>(at sink current of 20 mA) | AM26LS31 equivalent<br>Output current<br>High level: $I_o = -20$ mA<br>Low level: $I_s = 20$ mA<br>Output voltage:<br>$V_o = 2.5$ V min.<br>$V_s = 0.5$ V max. |
| Maximum response frequency *3    |        | 100 kHz                                                                                                                    | 50 kHz                                                                                                                     | 100 kHz                                                                                                           |                                                                                                                                                                |
| Rise and fall times of output    |        | 1 μs max. (Control output voltage: 5 V, Load resistance: 1 kΩ, Cable length: 2 m max.)                                     | 1 μs max. (Cable length: 2 m max., Sink current: 10 mA)                                                                    |                                                                                                                   | 0.1 μs max. (Cable length: 2 m max., $I_o = -20$ mA, $I_s = 20$ mA)                                                                                            |
| Starting torque                  |        | 0.98 mN·m max.                                                                                                             |                                                                                                                            |                                                                                                                   |                                                                                                                                                                |
| Moment of inertia                |        | 1×10 <sup>−6</sup> kg·m <sup>2</sup> max.; 3 × 10 <sup>−7</sup> kg·m <sup>2</sup> max. at 600 P/R max.                     |                                                                                                                            |                                                                                                                   |                                                                                                                                                                |
| Shaft load-ing                   | Radial | 30 N                                                                                                                       |                                                                                                                            |                                                                                                                   |                                                                                                                                                                |
|                                  | Thrust | 20 N                                                                                                                       |                                                                                                                            |                                                                                                                   |                                                                                                                                                                |
| Maximum permissible speed        |        | 6,000 r/min                                                                                                                |                                                                                                                            |                                                                                                                   |                                                                                                                                                                |
| Protection circuits              |        | Power supply reverse polarity protection, Load short-circuit protection                                                    |                                                                                                                            |                                                                                                                   | ---                                                                                                                                                            |
| Ambient temperature range        |        | Operating: −10 to 70°C (with no icing), Storage: −25 to 85°C (with no icing)                                               |                                                                                                                            |                                                                                                                   |                                                                                                                                                                |
| Ambient humidity range           |        | Operating/Storage: 35% to 85% (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             |        | Destruction: 10 to 500 Hz, 150 m/s <sup>2</sup> or 2-mm double amplitude for 11 min 3 times each in X, Y, and Z directions |                                                                                                                            |                                                                                                                   |                                                                                                                                                                |
| Shock resistance                 |        | Destruction: 1,000m/s <sup>2</sup> 3 times each in X, Y, and Z directions                                                  |                                                                                                                            |                                                                                                                   |                                                                                                                                                                |
| Degree of protection             |        | IEC 60529 IP50                                                                                                             |                                                                                                                            |                                                                                                                   |                                                                                                                                                                |
| Connection method                |        | Pre-wired Models (Standard cable length: 500 mm)                                                                           |                                                                                                                            |                                                                                                                   |                                                                                                                                                                |
| Materials                        |        | Case: ABS, Main unit: Aluminum, Shaft: SUS420J2                                                                            |                                                                                                                            |                                                                                                                   |                                                                                                                                                                |
| Weight (packed state)            |        | Approx. 100 g                                                                                                              |                                                                                                                            |                                                                                                                   |                                                                                                                                                                |
| Accessories                      |        | Coupling, Hexagonal wrench, Instruction manual                                                                             |                                                                                                                            |                                                                                                                   |                                                                                                                                                                |

\*1. An inrush current of approximately 9 A will flow for approximately 0.3 ms when the power is turned ON.

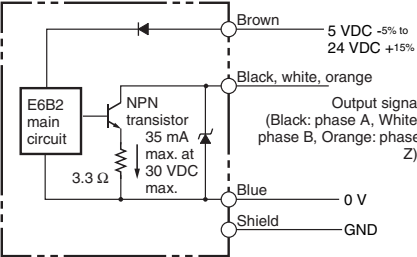
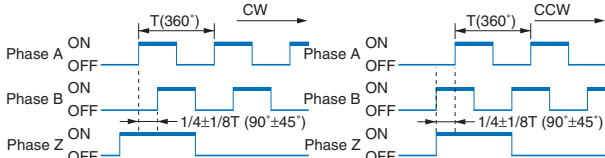
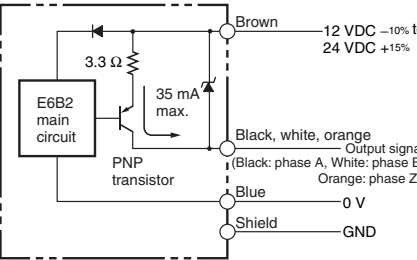
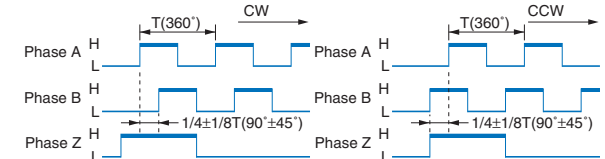
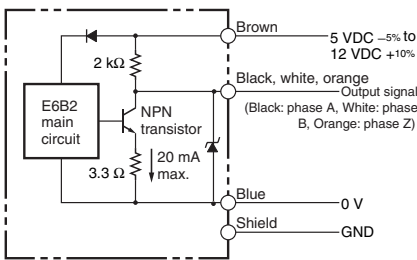
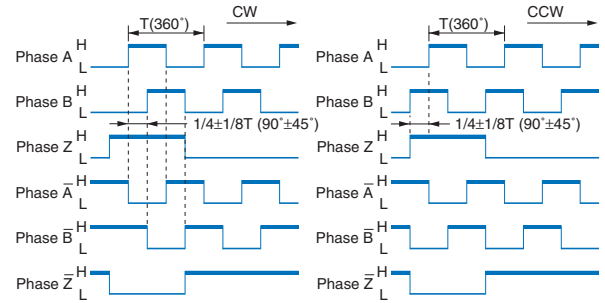
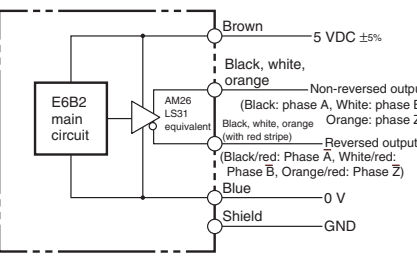
\*2. The line driver output is a data transmission circuit compatible with RS-422A and long-distance transmission is possible with a twisted-pair cable. The quality is equivalent to AM26LS31.

\*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 E6B2-C Rotary Encoder will not operate electrically if its speed exceeds the maximum electrical response speed.

## I/O Circuit Diagrams

| Model/Output Circuits                                                                                                | Output mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Connection                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |       |          |       |                     |       |                |                   |                |        |                |                   |                |        |                |                    |                |      |              |
|----------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|----------|-------|---------------------|-------|----------------|-------------------|----------------|--------|----------------|-------------------|----------------|--------|----------------|--------------------|----------------|------|--------------|
| <div>E6B2-CWZ6C</div> <div></div>   | <div>E6B2-CWZ6C NPN Open-collector Output Model</div> <div>E6B2-CWZ5B PNP Open-collector Output Model</div> <div>Direction of rotation: CW (as viewed from end of shaft)</div> <div>Direction of rotation: CCW (as viewed from end of shaft)</div> <div></div> <div>Note: Phase A is <math>1/4 T \pm 1/8 T</math> faster than phase B. The ONs in the above timing chart mean that the output transistor is ON and the OFFs mean that the output transistor is OFF.</div> <div>Note: Phase A is <math>1/4 T \pm 1/8 T</math> slower than phase B.</div> | <table><tr><th>Color</th><th>Terminal</th></tr><tr><td>Brown</td><td>Power supply (+Vcc)</td></tr><tr><td>Black</td><td>Output phase A</td></tr><tr><td>White</td><td>Output phase B</td></tr><tr><td>Orange</td><td>Output phase Z</td></tr><tr><td>Blue</td><td>0 V (common)</td></tr></table>                                                                                                                                                                                                                               | Color | Terminal | Brown | Power supply (+Vcc) | Black | Output phase A | White             | Output phase B | Orange | Output phase Z | Blue              | 0 V (common)   |        |                |                    |                |      |              |
| Color                                                                                                                | Terminal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |       |          |       |                     |       |                |                   |                |        |                |                   |                |        |                |                    |                |      |              |
| Brown                                                                                                                | Power supply (+Vcc)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |       |          |       |                     |       |                |                   |                |        |                |                   |                |        |                |                    |                |      |              |
| Black                                                                                                                | Output phase A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |       |          |       |                     |       |                |                   |                |        |                |                   |                |        |                |                    |                |      |              |
| White                                                                                                                | Output phase B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |       |          |       |                     |       |                |                   |                |        |                |                   |                |        |                |                    |                |      |              |
| Orange                                                                                                               | Output phase Z                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |       |          |       |                     |       |                |                   |                |        |                |                   |                |        |                |                    |                |      |              |
| Blue                                                                                                                 | 0 V (common)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |       |          |       |                     |       |                |                   |                |        |                |                   |                |        |                |                    |                |      |              |
| <div>E6B2-CWZ5B</div> <div></div>   | <div>E6B2-CWZ3E Voltage Output Model</div> <div>Direction of rotation: CW (as viewed from end of shaft)</div> <div>Direction of rotation: CCW (as viewed from end of shaft)</div> <div></div> <div>Note: Phase A is <math>1/4 T \pm 1/8 T</math> faster than phase B.</div> <div>Note: Phase A is <math>1/4 T \pm 1/8 T</math> slower than phase B.</div>                                                                                                                                                                                             | <table><tr><th>Color</th><th>Terminal</th></tr><tr><td>Brown</td><td>Power supply (+Vcc)</td></tr><tr><td>Black</td><td>Output phase A</td></tr><tr><td>White</td><td>Output phase B</td></tr><tr><td>Orange</td><td>Output phase Z</td></tr><tr><td>Blue</td><td>0 V (common)</td></tr></table>                                                                                                                                                                                                                               | Color | Terminal | Brown | Power supply (+Vcc) | Black | Output phase A | White             | Output phase B | Orange | Output phase Z | Blue              | 0 V (common)   |        |                |                    |                |      |              |
| Color                                                                                                                | Terminal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |       |          |       |                     |       |                |                   |                |        |                |                   |                |        |                |                    |                |      |              |
| Brown                                                                                                                | Power supply (+Vcc)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |       |          |       |                     |       |                |                   |                |        |                |                   |                |        |                |                    |                |      |              |
| Black                                                                                                                | Output phase A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |       |          |       |                     |       |                |                   |                |        |                |                   |                |        |                |                    |                |      |              |
| White                                                                                                                | Output phase B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |       |          |       |                     |       |                |                   |                |        |                |                   |                |        |                |                    |                |      |              |
| Orange                                                                                                               | Output phase Z                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |       |          |       |                     |       |                |                   |                |        |                |                   |                |        |                |                    |                |      |              |
| Blue                                                                                                                 | 0 V (common)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |       |          |       |                     |       |                |                   |                |        |                |                   |                |        |                |                    |                |      |              |
| <div>E6B2-CWZ3E</div> <div></div>  | <div>E6B2-CWZ1X Line Driver Output Model</div> <div>Direction of rotation: CW (as viewed from end of shaft)</div> <div>Direction of rotation: CCW (as viewed from end of shaft)</div> <div></div> <div>Note: Phase A is <math>1/4 T \pm 1/8 T</math> faster than phase B.</div> <div>Note: Phase A is <math>1/4 T \pm 1/8 T</math> slower than phase B.</div>                                                                                                                                                                                         | <table><tr><th>Color</th><th>Terminal</th></tr><tr><td>Brown</td><td>Power supply (+Vcc)</td></tr><tr><td>Black</td><td>Output phase A</td></tr><tr><td>Black/red stripes</td><td>Output phase A</td></tr><tr><td>White</td><td>Output phase B</td></tr><tr><td>White/red stripes</td><td>Output phase B</td></tr><tr><td>Orange</td><td>Output phase Z</td></tr><tr><td>Orange/red stripes</td><td>Output phase Z</td></tr><tr><td>Blue</td><td>0 V (common)</td></tr></table> <div>Note: Receiver: AM26LS32 equivalent</div> | Color | Terminal | Brown | Power supply (+Vcc) | Black | Output phase A | Black/red stripes | Output phase A | White  | Output phase B | White/red stripes | Output phase B | Orange | Output phase Z | Orange/red stripes | Output phase Z | Blue | 0 V (common) |
| Color                                                                                                                | Terminal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |       |          |       |                     |       |                |                   |                |        |                |                   |                |        |                |                    |                |      |              |
| Brown                                                                                                                | Power supply (+Vcc)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |       |          |       |                     |       |                |                   |                |        |                |                   |                |        |                |                    |                |      |              |
| Black                                                                                                                | Output phase A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |       |          |       |                     |       |                |                   |                |        |                |                   |                |        |                |                    |                |      |              |
| Black/red stripes                                                                                                    | Output phase A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |       |          |       |                     |       |                |                   |                |        |                |                   |                |        |                |                    |                |      |              |
| White                                                                                                                | Output phase B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |       |          |       |                     |       |                |                   |                |        |                |                   |                |        |                |                    |                |      |              |
| White/red stripes                                                                                                    | Output phase B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |       |          |       |                     |       |                |                   |                |        |                |                   |                |        |                |                    |                |      |              |
| Orange                                                                                                               | Output phase Z                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |       |          |       |                     |       |                |                   |                |        |                |                   |                |        |                |                    |                |      |              |
| Orange/red stripes                                                                                                   | Output phase Z                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |       |          |       |                     |       |                |                   |                |        |                |                   |                |        |                |                    |                |      |              |
| Blue                                                                                                                 | 0 V (common)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |       |          |       |                     |       |                |                   |                |        |                |                   |                |        |                |                    |                |      |              |
| <div>E6B2-CWZ1X</div> <div></div> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |       |          |       |                     |       |                |                   |                |        |                |                   |                |        |                |                    |                |      |              |

Note: 1. The shielded cable outer core (shield) is not connected to the inner area or to the case.  
 2. The phase A, phase B, and phase Z circuits are all identical.  
 3. Normally, connect GND to 0 V or to an external ground.

## Safety Precautions

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 Safe Use

Incorrect wiring may damage internal circuits.

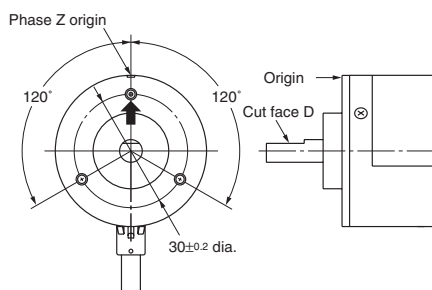
### Precautions for Correct Use

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

#### ● Mounting

##### ● Origin Indication

It is easy to adjust the position of phase Z with the origin indication function. The following illustration shows the relationship between phase Z and the origin. Set cut face D to the phase Z origin as shown in the illustration.



- Do not extend the length of the cable to more than 2 m. If the cable must be more than 2 m, use a Model with a Line-driver Output (max. length: 100 m).

#### ● 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.

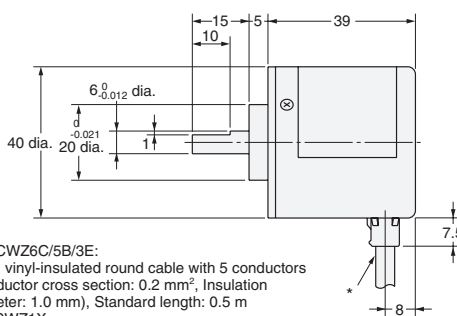
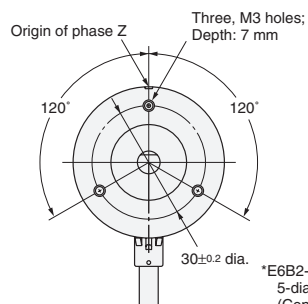
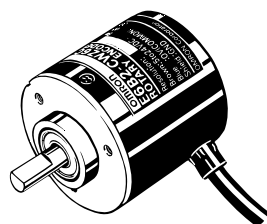
(Unit: mm)

## Dimensions

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

## Encoder

### E6B2-C



\*E6B2-CWZ6C/5B/3E:  
5-dia. vinyl-insulated round cable with 5 conductors  
(Conductor cross section: 0.2 mm<sup>2</sup>, Insulation diameter: 1.0 mm), Standard length: 0.5 m  
E6B2-CWZ1X:  
5-dia. vinyl-insulated round cable with 8 conductors  
(Conductor cross section: 0.2 mm<sup>2</sup>, Insulation diameter: 1.0 mm), Standard length: 0.5 m

## Accessories (Order Separately)

### Couplings

E69-C06B  
E69-C68B  
E69-C610B  
E69-C06M

### Flanges

E69-FBA  
E69-FBA02

### Servo Mounting Bracket

E69-2

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

### WARRANTY

OMRON's exclusive warranty is that the products are free from defects in materials and workmanship for a period of one year (or other period if specified) from date of sale by OMRON.

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- 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.

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Телефон: 8 (812) 309-75-97 (многоканальный)

Факс: 8 (812) 320-03-32

Электронная почта: [ocean@oceanchips.ru](mailto:ocean@oceanchips.ru)

Web: <http://oceanchips.ru/>

Адрес: 198099, г. Санкт-Петербург, ул. Калинина, д. 2, корп. 4, лит. А