

## General-purpose Encoder with External Diameter of 50 mm

- Incremental model
- External diameter of 50 mm.
- Resolution of up to 2,000 ppr.
- IP64 (improved oil-proof construction with sealed bearings)
- Side or back connections are possible. Pre-wired Models with cable connected at an angle.



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	Open-collector output (NPN)	10, 20, 30, 40, 50, 60, 100, 200, 300, 360, 400, 500, 600	<b>E6C2-CWZ6C (resolution) 2M</b> Example: E6C2-CWZ6C 10P/R 2M
		720, 800, 1,000, 1,024, 1,200, 1,500, 1,800, 2,000	
12 to 24 VDC	Open-collector output (PNP)	100, 200, 360, 500, 600	<b>E6C2-CWZ5B (resolution) 2M</b> Example: E6C2-CWZ5B 100P/R 2M
		1,000, 2,000	
5 to 12 VDC	Voltage output	10, 20, 30, 40, 50, 60, 100, 200, 300, 360, 400, 500, 600	<b>E6C2-CWZ3E (resolution) 2M</b> Example: E6C2-CWZ3E 10P/R 2M
		720, 800, 1,000, 1,024, 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>E6C2-CWZ1X (resolution) 2M</b> Example: E6C2-CWZ1X 10P/R 2M
		720, 800, 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
<b>Couplings</b>	<b>E69-C06B</b>	---
	<b>E69-C68B</b>	Different end diameter
	<b>E69-C610B</b>	Different end diameter
	<b>E69-C06M</b>	Metal construction
<b>Flanges</b>	<b>E69-FCA</b>	---
	<b>E69-FCA02</b>	E69-2 Servo Mounting Bracket provided.
<b>Servo Mounting Bracket</b>	<b>E69-2</b>	Provided with E69-FCA02 Flange.

Refer to *Accessories* for details.

## Ratings and Specifications

Item	Model	E6C2-CWZ6C	E6C2-CWZ5B	E6C2-CWZ3E	E6C2-CWZ1X
Power supply voltage		5 VDC -5% to 24 VDC +15%, ripple (p-p): 5% max.	12 VDC -10% to 24 VDC +15%, ripple (p-p): 5% max.	5 VDC -5% to 12 VDC +10%, ripple (p-p): 5% max.	5 VDC ±5%, ripple (p-p): 5% max.
Current consumption*1		80 mA max.	100 mA max.		160 mA max.
Resolution (pulses/rotation)		10, 20, 30, 40, 50, 60, 100, 200, 300, 360, 400, 500, 600, 720, 800, 1,000, 1,024, 1,200, 1,500, 1,800, 2,000	100, 200, 360, 500, 600, 1,000, 2,000	10, 20, 30, 40, 50, 60, 100, 200, 300, 360, 400, 500, 600, 720, 800, 1,000, 1,024, 1,200, 1,500, 1,800, 2,000	
Output phases		Phases A, B, and Z			Phases A, $\bar{A}$ , B, $\bar{B}$ , Z, and $\bar{Z}$
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. Sink current: 35 mA max. Residual voltage: 0.4 V max. (at sink current of 35 mA)	Applied voltage: 30 VDC max. Source current: 35 mA max. Residual voltage: 0.4 V max. (at source current of 35 mA)	Output resistance: 2 kΩ Output current: 20 mA max. Residual voltage: 0.4 V max. (at sink current of 20 mA)	AM26LS31 equivalent Output voltage: High level: $I_o = -20$ mA Low level: $I_s = 20$ mA Output voltage: $V_o = 2.5$ V min. $V_s = 0.5$ V max.
Maximum response frequency*3		100 kHz	50 kHz	100 kHz	
Phase difference between outputs		90°±45° between A and B (1/4 T ± 1/8 T)			
Rise and fall times of output		1 μs max. (Control output voltage: 5 V, Load resistance: 1 kΩ, Cable length: 2 m)	1 μs max. (Cable length: 2 m, Sink current: 10 mA)		0.1 μs max. (Cable length: 2 m, $I_o = -20$ mA, $I_s = 20$ mA)
Starting torque		10 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 loading	Radial	50 N			
	Thrust	30 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: 1,000 m/s <sup>2</sup> 3 times each in X, Y, and Z directions			
Degree of protection		IEC 60529 IP64, in-house standards: oilproof			
Connection method		Pre-wired Models (Standard cable length: 2 m)			
Material		Case: Zinc alloy, Main unit: Aluminum, Shaft: SUS420J2			
Weight (packed state)		Approx. 400 g			
Accessories		Instruction manual Note: Coupling, mounting bracket and hex-head spanner are sold separately.			

Note: Origin Indication

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.



\*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. (AM26LS31 equivalent)

\*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 E6C2-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																		
<p><b>E6C2-CWZ6C</b></p> <p>5 VDC <math>-5\%</math> to <math>24\text{ VDC } +15\%</math></p> <p>Black, white, orange Output signal (Black: phase A, White: phase B, Orange: phase Z)</p> <p>Blue 0 V</p> <p>Shield GND</p> <p>E6C2-C main circuit</p> <p>NPN transistor 35 mA max. 30 VDC max.</p> <p>3.3 <math>\Omega</math></p>	<p><b>E6C2-CWZ6C NPN Open-collector Output Model</b> <b>E6C2-CWZ5B PNP Open-collector Output Model</b></p> <p>Direction of rotation: CW (as viewed from end of shaft)      Direction of rotation: CCW (as viewed from end of shaft)</p> <p>Phase A ON OFF Phase B ON OFF Phase Z ON OFF</p> <p>Note: Phase A is <math>1/4 T \pm 1/8 T</math> faster than phase B.      Note: Phase A is <math>1/4 T \pm 1/8 T</math> slower than phase B.</p> <p>(The ONs in the above timing chart mean that the output transistor is ON and the OFFs mean that the output transistor is OFF.)</p>	<table border="1"> <thead> <tr> <th>Color</th> <th>Terminal</th> </tr> </thead> <tbody> <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> </tbody> </table>	Color	Terminal	Brown	Power supply (+Vcc)	Black	Output phase A	White	Output phase B	Orange	Output phase Z	Blue	0 V (common)						
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<p><b>E6C2-CWZ5B</b></p> <p>12 VDC <math>-10\%</math> to <math>24\text{ VDC } +15\%</math></p> <p>Brown</p> <p>Black, white, orange Output signal (Black: phase A, White: phase B, Orange: phase Z)</p> <p>Blue 0 V</p> <p>Shield GND</p> <p>E6C2-C main circuit</p> <p>PNP transistor 35 mA max.</p> <p>3.3 <math>\Omega</math></p>	<p><b>E6C2-CWZ3E Voltage Output Model</b></p> <p>Direction of rotation: CW (as viewed from end of shaft)      Direction of rotation: CCW (as viewed from end of shaft)</p> <p>Phase A H L Phase B H L Phase Z H L</p> <p>Note: Phase A is <math>1/4 T \pm 1/8 T</math> faster than phase B.      Note: Phase A is <math>1/4 T \pm 1/8 T</math> slower than phase B.</p>	<table border="1"> <thead> <tr> <th>Color</th> <th>Terminal</th> </tr> </thead> <tbody> <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> </tbody> </table>	Color	Terminal	Brown	Power supply (+Vcc)	Black	Output phase A	White	Output phase B	Orange	Output phase Z	Blue	0 V (common)						
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<p><b>E6C2-CWZ3E</b></p> <p>5 VDC <math>-5\%</math> to <math>12\text{ VDC } +10\%</math></p> <p>Brown</p> <p>Black, white, orange Output signal (Black: phase A, White: phase B, Orange: phase Z)</p> <p>Blue 0 V</p> <p>Shield GND</p> <p>E6C2-C main circuit</p> <p>NPN transistor 20 mA max.</p> <p>2 k <math>\Omega</math></p> <p>3.3 <math>\Omega</math></p>	<p><b>E6C2-CWZ1X Line Driver Output Model</b></p> <p>Direction of rotation: CW (as viewed from end of shaft)      Direction of rotation: CCW (as viewed from end of shaft)</p> <p>Phase A H L Phase B H L Phase Z H L Phase A-bar H L Phase B-bar H L Phase Z-bar H L</p> <p>Note: Receiver: AM26LS32 equivalent</p>	<table border="1"> <thead> <tr> <th>Color</th> <th>Terminal</th> </tr> </thead> <tbody> <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>Black/red stripes</td> <td>Output phase A-bar</td> </tr> <tr> <td>White/red stripes</td> <td>Output phase B-bar</td> </tr> <tr> <td>Orange/red stripes</td> <td>Output phase Z-bar</td> </tr> <tr> <td>Blue</td> <td>0 V (common)</td> </tr> </tbody> </table>	Color	Terminal	Brown	Power supply (+Vcc)	Black	Output phase A	White	Output phase B	Orange	Output phase Z	Black/red stripes	Output phase A-bar	White/red stripes	Output phase B-bar	Orange/red stripes	Output phase Z-bar	Blue	0 V (common)
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<p><b>E6C2-CWZ1X</b></p> <p>5 VDC <math>\pm 5\%</math></p> <p>Brown</p> <p>Black, white, orange Non-reversed output (Black: phase A, White: phase B, Orange: phase Z)</p> <p>Black, White, Orange Orange: phase Z</p> <p>Black/red stripes Reversed output (Black/red: Phase A-bar, White/red: Phase B-bar, Orange/red: Phase Z-bar)</p> <p>Blue 0 V</p> <p>Shield GND</p> <p>E6C2-C main circuit</p> <p>AM26LS32 equivalent</p>	<p>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.</p>																			

## 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 Correct Use**

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

● **Wiring**

**Cable Extension Characteristics**

- When the cable length is extended, the output waveform startup time is lengthened and it affects the phase difference characteristics of phases A and B. Conditions will change according to frequency, noise, and other factors. As a guideline, use a cable length of 10 m\* or less. If the cable must be more than 2 m, use a Model with a Line-driver Output (max. length for line-driver output: 100 m).

\* Recommended Cable  
 Conductor cross section: 0.2 mm<sup>2</sup>  
 Spiral shield  
 Conductor resistance: 92 Ω/km max. (20°C)  
 Insulation resistance: 5 Ω/km min. (20°C)

- The output waveform startup time changes not only according to the length of the cable, but also according to the load resistance and the cable type.
- Extending the cable length not only changes the startup time, but also increases the output residual voltage.

● **Connection**

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.

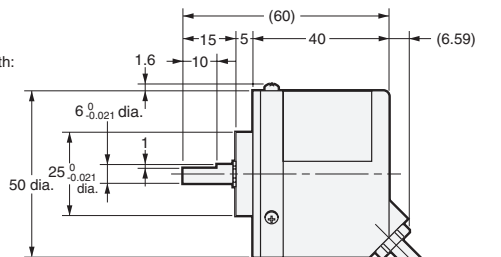
(Unit: mm)

## Dimensions

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

### Encoder

E6C2-CWZ□□



5-dia. oil-resistant PVC-insulated shielded cable with 5 conductors (line driver: 8 conductors)  
 (Conductor cross section: 0.2 mm<sup>2</sup>, Insulator diameter: 1.0 mm),  
 Standard length: 2 m

## Accessories (Order Separately)

**Couplings**

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

**Flanges**

- E69-FCA
- E69-FCA02

**Servo Mounting Bracket**

**E69-2 (Three brackets in a set.)**

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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- 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.

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

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

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### ERRORS AND OMISSIONS

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2011.4

In the interest of product improvement, specifications are subject to change without notice.

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Industrial Automation Company

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[CWZ6C 720P/R](#) [E6C2-CWZ6C 800P/R 2M](#) [E6C2-CWZ1X 1024P/R 2M](#) [E6C2CWZ6C10PR2M](#) [E6C2-CWZ6C 10P/R](#)  
[2M](#)



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