

查询"<u>F6CP-AG5C-C"供应商</u> Absolute Rotary Encoder

E6CP

Absolute Rotary Encoders with Gray Code Output

- Gray code output decreases output errors
- Lightweight plastic housing
- In combination with Omron's H8PS Cam Positioner, this encoder detects the operation timing of various automatic machines with high precision
- Optical system eliminates brush noise and minimizes errors from temperature fluctuation compared with potentiometers



Ordering Information

■ ENCODERS

The encoder with a "-C" in the part number has a cable that terminates in a connector for Omron's H8PS Cam Positioner. Standard stock products are shown in bold in the Part Number Index.

Resolution (pulses/revolution)	Output code	Output form	Supply voltage	Cable termination	Part number
8-bit (256 pulses/revolution)	Gray code	Open collector	5 to 12 VDC	Wire bundle	E6CP-AG3C
			12 to 24 VDC	Connector	E6CP-AG5C-C

■ ACCESSORIES

Description	Part number
Shaft coupler; fits two 6 mm (0.24 in.) dia. shafts	E69-C06B
Extension cable, 5 m (16.40 ft.) for E6CP-AG5C-C encoder	E69-DF5

■ REPLACEMENT PARTS

Description	Part number
Mounting brackets (set of 3) supplied with each E6CP encoder	E69-FCA-02



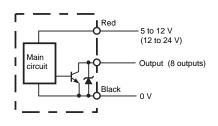


Part number		E6CP-AG3C	E6CP-AG5C-C	
Supply voltage		5 VDC -5% to 12 VDC +10%;	12 VDC -10% to 24 VDC +15%;	
		max. 5% ripple peak-to-peak max. 5% ripple peak-to-peak		
Current consumpt		90 mA max.	70 mA max.	
Resolution (pulses	s/revolution)	8-bit (256 pulses/revolution)		
Output code		Gray code (binary)		
Applicable Cam P	ositioner		H8PS	
Output form		Open collector output		
Output capacity		Applied voltage: 28 VDC Residual voltage: 0.4 V max. at sink current Sink current: 16 mA max.		
Maximum response frequency		5 kHz		
Logic		Negative (H level: 0, L level: 1)		
Accuracy		Within ±1°		
Rotation direction		Output code increases in clockwise direction when viewed from shaft		
Output rise and fall times		1.0 μs max. with 16 V control output voltage, 1 $k\Omega$ load resistance and 2 m (6.56 ft.) output cable		
Starting torque		10 g-cm (0.14 ozinch) max.		
Shaft loading Radial Axial		3 kgf (21.7 ft-lbs.)		
		2 kgf (14.5 ft-lbs.)		
Moment of inertia		10 g-cm² (0.055 ozinch²) max.		
Maximum rpm		1,000 rpm		
Electrical connect	ion	Prewired with 2 m (6.56 ft.) length cable	Connector	
Weight		Approx. 200 g (7 oz.)		
Enclosure rating		IEC: IP50		
Ambient Operating temperature Storage		-10° to 55°C (14° to 131°F) -25° to 80°C (-13° to 176°F)		
Ambient humidity		35 to 85% RH		
Vibration resistance		Mechanical durability: 10 to 55 Hz, 1.5 mm double amplitude, in X, Y, and Z directions for 2 hours each		
Shock resistance		Mechanical durability: approx. 100 G in X, Y, and Z directions, 3 times each		
Insulation resistance		10 MΩ minimum at 500 VDC between current-carrying part and housing		
Dielectric strength		500 VAC, 50/60 Hz for 1 minute between current-carrying part and housing		

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■ OUTPUT CIRCUIT DIAGRAM





Terminal no.	E6CP-AG5C-C
1	_
2	_
3	Output 2⁵
4	Output 2 ¹
5	Output 2º
6	Output 2 ⁷
7	Output 2 ⁴
8	Output 2 ²
9	Output 2 ³
10	Output 26
11	GND
12	Power supply 12 to 24 V
13	0 V (common)
Notos:	·

Wire color	EC6P-AG3C	
Red	+ power supply	
Black	0V (common)	
Brown	Output 2º	
Orange	Output 21	
Yellow	Output 2 ²	
Green	Output 2 ³	
Blue	Output 2 ⁴	
Purple	Output 2⁵	
Gray	Output 26	
White	Output 2 ⁷	

Notes:

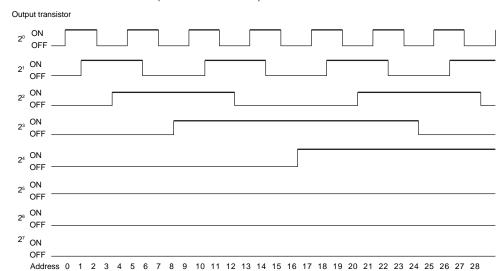
- 1. The output of each bit is from the same circuit.
- 2. Terminals no. 1 and no. 2 are short-circuited.

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Shaft rotation: Clockwise as viewed from the shaft

Output Mode

Revolution direction: CW (as viewed from shaft)

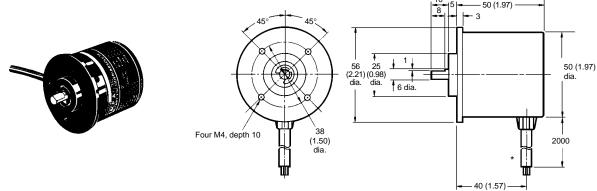


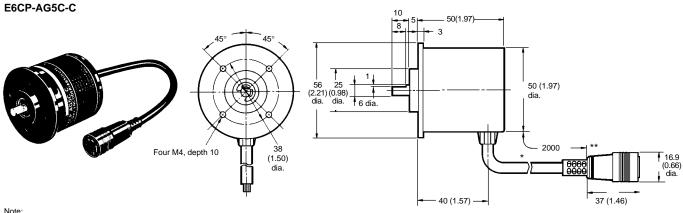
Dimensions_____

Unit: mm (inch)

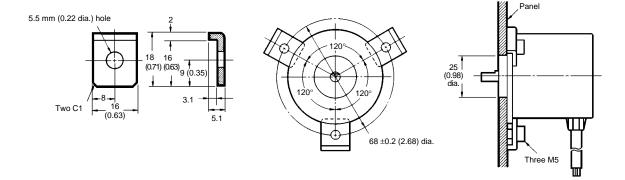
■ ENCODERS

E6CP-AG3C



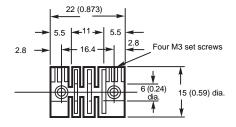


- Note:
 * Oil-resistant, vinyl-insulated and shielded cable is 2 m (6.56 ft.) long. The E6CP-AG3C encoder terminates with a 6 mm OD wire bundle.
- **E6CP-AG5C-C encoder terminates in a connector that fits the H8PS Cam Positioner.



■ ACCESSORIES

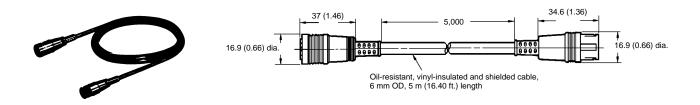
Shaft Coupler E69-C06B



Note:

- 1. Material: Glass-filled polybutadiene terephthalate (PBT).
- 2. Each set screw must be tightened to 2.5 kg-cm (2.17 in-lbs.)

Extension Cable E69-DF5



NOTE: DIMENSIONS ARE IN MILLIMETERS. To convert millimeters to inches, divide by 25.4.

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