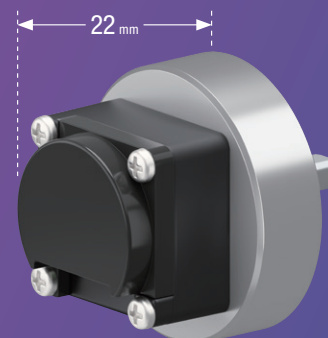


Rotary Encoder

Small, Flat, Lightweight
Magnetic Incremental Encoder



Front



Back

Installation Size: $\phi 30$ mm
Shaft Shape: Round shaft
Mass: 33 g

Product Code

RE 40 A J 1000 F

① ② ③ ④ ⑤

①	Installation Size (mm)	30 : $\phi 30$ mm 40 : $\phi 40$ mm
②	Shaft Shape	A : Round shaft H : Hollow shaft
③	Encoder Type	J : Incremental type
④	Resolution (P/R)	
⑤	Output Circuit Type	E : Voltage output L : Line driver output F : Open collector output (Power supply voltage 5 to 24 VDC)

Product Line

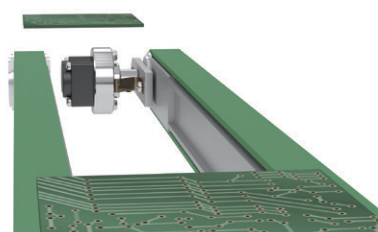
Installation Size (mm)	Shaft Shape	Resolution (P/R)	Product Name		
			Voltage Output	Line Driver Output	Open-collector Output (Power supply voltage 5 to 24 V DC)
$\phi 30$	 Round shaft	100 to 2000	RE30AJ □□□□ E	RE30AJ □□□□ L	RE30AJ □□□□ F
		2500 to 4000			
	 Hollow shaft	100 to 2000	RE30HJ □□□□ E	RE30HJ □□□□ L	RE30HJ □□□□ F
		2500 to 4000			
$\phi 40$	 Round shaft	100 to 2000	RE40AJ □□□□ E	RE40AJ □□□□ L	RE40AJ □□□□ F
		2500 to 4000			
	 Hollow shaft	100 to 2000	RE40HJ □□□□ E	RE40HJ □□□□ L	RE40HJ □□□□ F
		2500 to 4000			

● A number indicating the resolution is specified where the box □ is located in the product name.

Applications

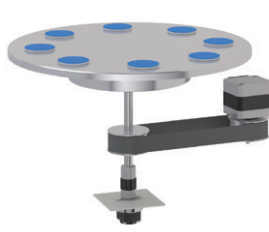
Conveyor

Transport position control

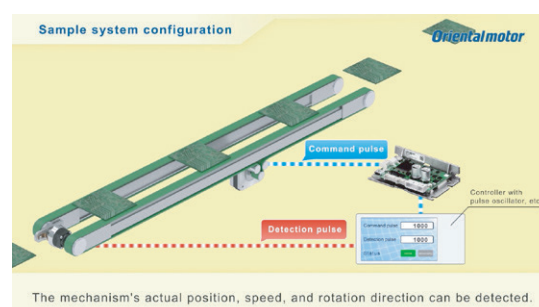


Index Table

Position control



Product Introduction Video

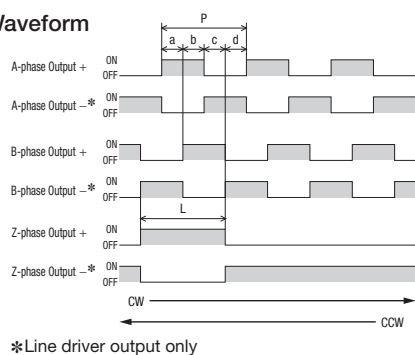


Specifications

● Electrical Specifications

Encoder Type		Incremental type		
Output Circuit Type		Line driver output (26C31 equivalent)	Voltage output	Open-collector output
Resolution (P/R)		100, 200, 360, 400, 500, 600, 720, 800, 1000, 1800, 2000, 2500, 3600, 4000		
Output Signal		Phase A, Phase B, Phase Z; 3 channels		
Output Circuit				
Maximum Sink Current		20 mA		30 mA
Output Voltage	H Level	2.5 V or more	4.3 V or more (No load)	—
	L Level	0.5 V or less		
Response Frequency		200 kHz or less	100 kHz or less	
Power Supply Voltage		5 VDC $\pm 10\%$		5 to 24 VDC $\pm 10\%$
Current Consumption (No load)		30 mA or less	45 mA or less	18 mA or less
Angular Accuracy		$\pm 0.36^\circ$		

◇ Output Waveform



◆ Waveform Accuracy

- Duty Ratio: 50 % $\pm$ 12.5 % for both Phase A and Phase B outputs
- Phase Z Output: L = P
- Phase Difference: a, b, c, d = $P/4 \pm P/8$
- Signal Rise and Fall Time: 1 μ s or less (At connector terminals)

Encoder Connection Cable (Sold separately)

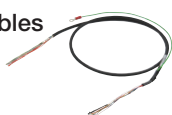
① Lead Wires



◇ **Product Line**

Applicable Encoder	Product Name	Length L (m)	Conductor AWG
Voltage Output / Open-collector Output	LCE05A-006	0.6	26 (0.13mm ²)
Line Driver Output	LCE08A-006		

② Flexible Shielded Cables



◇ **Product Line**

Applicable Encoder	Product Name	Length L (m)	Conductor AWG
Line Driver Output / Voltage Output / Open-collector Output	CC010E1R	1	26 (0.13mm ²)
	CC020E1R	2	
	CC030E1R	3	

Mounting Bracket for Round Shaft Type (Sold separately)

Mounting bracket to be assembled to round shaft type with installation size $\phi 30$ mm.

A round shaft type rotary encoder can be mounted from the rear using the mounting bracket.



◇ **Product Line**

Product Name
PEF2

Material: Aluminum alloy
Surface Treatment: Alumite

◇ Included

2 Mounting screws M2.5

Visit www.orientalmotor.com

For further information (specifications, dimensions, speed-torque characteristics)

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