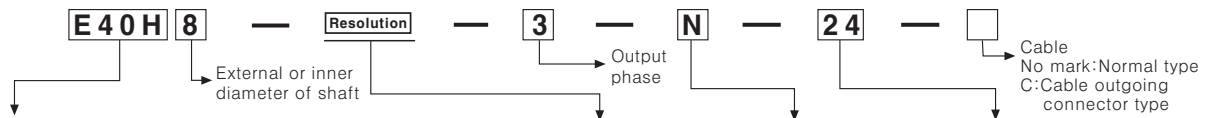
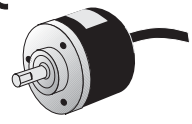
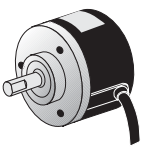

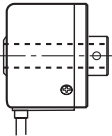

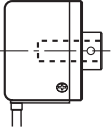

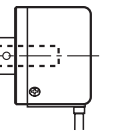


Product Overview(Incremental Type)






Appearances	Model	Resolution	Control output	Power supply	Page
φ 30mm shaft type 	E30S4 - Resolution - 3 - T - 5, 24 N V 6-L-5	100P/R 200P/R 360P/R 500P/R 1000P/R 1024P/R 3000P/R	T (1) : Totem pole output N (2) : NPN open collector output V (3) : Voltage output L : Line driver output (Not included in CE certification)	5 : 5VDC ±5% 24 : 12-24VDC ±5% (Ripple P-P : Max. 5%) (Note) The output of Line driver is only for 5VDC.	M-4~5 Page
φ 40mm shaft type 	E40S6 - Resolution - 2 - T - 5, 24 (Standard item) N E40S8 (Customizable) V 3-T-5, 24 N V 4-L-5 6	*1P/R *2P/R *5P/R 10P/R *12P/R 15P/R 20P/R 23P/R 25P/R 30P/R 35P/R 40P/R 45P/R 50P/R 60P/R 75P/R			
φ 40mm Hollow shaft type  E40H 	E40H8 - Resolution - 2 - T - 5, 24 (Standard item) N E40H6 V E40H10 3-T-5, 24 E40H12 (Customizable) N V 4-L-5 6	100P/R 120P/R 125P/R 150P/R 192P/R 200P/R 240P/R 250P/R 256P/R 300P/R 360P/R 400P/R 500P/R 512P/R 600P/R 800P/R 1000P/R 1024P/R 1200P/R 1500P/R 1800P/R 2000P/R 2048P/R 2500P/R 3000P/R 3600P/R 5000P/R			M-6~8 Page
φ 40mm Hollow shaft built-in type  E40HB 	E40HB8 - Resolution - 2 - T - 5, 24 (Standard item) N E40HB6 V E40HB10 3-T-5, 24 E40HB12 (Customizable) N V 4-L-5 6	100P/R 120P/R 125P/R 150P/R *12P/R 192P/R 15P/R 200P/R 20P/R 240P/R 23P/R 250P/R 25P/R 256P/R 30P/R 300P/R 35P/R 360P/R 40P/R 400P/R 45P/R 500P/R 50P/R 512P/R 60P/R 600P/R 75P/R			
φ 40mm Hollow shaft built-in type  	E40HB8P - Resolution - 2 - T - 5, 24 N V 3-T-5, 24 N V 4-L-5 6 ※Plastic structure	*1P/R 100P/R *2P/R 120P/R *5P/R 125P/R 10P/R 150P/R *12P/R 192P/R 15P/R 200P/R 20P/R 240P/R 23P/R 250P/R 25P/R 256P/R 30P/R 300P/R 35P/R 360P/R 40P/R 400P/R 45P/R 500P/R 50P/R 512P/R 60P/R 600P/R 75P/R			

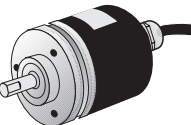
※The '*' marked pulse is only for A, B phase in resolution. (Line Driver output is for A, \bar{A} , B, \bar{B} phase.)

※Not indicated pulse in this chart is customizable.


Product Overview(Incremental, Absolute Type)

Appearances	Model	Resolution	Control output	Power supply	Page
 <p>Measuring wheel type CE</p>	ENC-1- <u>Resolution</u> -T-5, 24 N V	1 : 1mm/Pulse 2 : 1cm/Pulse 3 : 1m/Pulse 4 : 0.01yd/Pulse 5 : 0.1yd/Pulse 6 : 1yd/Pulse	T (1) : Totem pole output	5 : 5VDC ±5%	M-32~33 Page
 <p>Manual handle type</p>	ENH- <u>Resolution</u> -1-T-5, 24 2 1-V-5, 24 2 1-L-5 2	25P/R 100P/R	N (2): NPN open collector output	24 : 12-24VDC ±5% (Ripple P-P : Max. 5%) (Note)The output of Line driver is only for 5VDC.	M-34~35 Page
 <p>Movable encoder with handle</p>	ENHP- <u>Resolution</u> -1-L-5 2	100P/R	V (3): Voltage output		
			L : Line driver output (Not included in CE certification) * The number of () is former name.		

The '' marked pulse is only for A, B phase in resolution. (Sold separately.)
*Not indicated pulse in this chart is customizable.

Appearances	Model	Resolution	Output code	Control output	Power supply	Page
 <p>∅ 50mm shaft type CE</p>	EP50S- <u>Resolution</u> -1R-P-5, 24 2R 3R 1F 2F 3F EP50S- <u>Resolution</u> -1R-N-5, 24 2R 3R 1F 2F 3F	*6P/R 90P/R *8P/R 128P/R *12P/R 180P/R *16P/R 256P/R *24P/R 360P/R *32P/R 512P/R *40P/R 720P/R 45P/R 1024P/R 64P/R	1 : BCD 2 : BINARY 3 : GRAY (Customize)	P (1): PNP open collector output N (2): NPN open collector output	5 : 5VDC ±5% 24 : 12-24VDC ±5% (Ripple P-P : Max. 5%)	M-38~41 Page

*Not indicated number of division in this chart is customizable.
The '' marked division is being developed.
*Revolution direction ⇨ R : CCW as viewed from the shaft, F : CW as viewed from the shaft
*The number of () is former name in control output.

Appearances	Model	Output code	Power supply	Resolution	Control output	Page
 <p>∅ 60mm shaft type</p>	ENP-111R- <u>Resolution</u> -P 111F ENP-101R- <u>Resolution</u> -N 101F ENP-110R- <u>360</u> -P 110F ENP-100R- <u>360</u> -N 100F	1 : BCD Code	1 : 12-24VDC ±5% (Ripple P-P : Max. 5%) 0 : 5-12VDC ±5% (Ripple P-P : Max. 5%)	6P/R 8P/R 12P/R 16P/R 24P/R 360P/R	P (1) : PNP open collector output N (2) : NPN open collector output P (1) : PNP open collector output N (2) : NPN open collector output	M-42~45 Page

*Output ⇨ 0 : Negative logic, 1 : Positive logic
*Revolution direction ⇨ R : CCW as viewed from the shaft, F : CW as viewed from the shaft
*The number of () is former name in control output.