## **Product Overview(Incremental Type)**

E 4 0	H 8 — Resolution —	3 — Output	N — 24	- Cable	
	External or inner diameter of shaft	phase		C:Cable	:Normal type outgoing ector type
Appearances	Model	Resolution	Control output	Power supply	Page
φ 20mm shaft type  (ξ NEW  φ 20mm Hollow shaft built-in type  (ξ NEW	E20S2 - Resolution -3-T-5, 12  *Cable N R:Rear side outgoing V cable type 6-L-5 S:Side outgoing cable type  E20HB2-Resolution -3-T-5, 12 E20HB2.5 N E20HB3 V *Cable 6-L-5 R:Rear side outgoing cable type	100P/R 200P/R 360P/R		5: 5VDC ±5%  12: 12VDC ±5% (Ripple P-P: Max. 5%)  (Note) The output of Line driver is only for 5VDC.	M−5~6 Page
ø 30mm shaft type	S:Side outgoing cable type  E30S4 - Resolution -3-T-5, 24  N V 6-L-5	100P/R 1000P 200P/R 1024P 360P/R 3000P 500P/R	output	omy for over	M−7∼8 Page
ø 40mm shaft type	E40S6 - Resolution - 2-T-5, 24 (Standard item) N E40S8 V (Customizable) 3-T-5, 24 N V 4-L-5	*1P/R 1000P *2P/R 1024P *5P/R 1200P 10P/R 1500P *12P/R 1800P 15P/R 2000P	/R /R N (2): /R NPN open /R collector output		
	E40H8 - Resolution - 2-T-5, 24 (Standard item) N E40H6 V E40H10 3-T-5, 24 E40H12 N (Customizable) V 4-L-5 6	20P/R 2048P 23P/R 2500P 25P/R 3000P 30P/R 3600P 35P/R 5000P 40P/R 45P/R 50P/R 60P/R 75P/R 100P/R 120P/R 150P/R	/R /R /R	<b>5</b> : 5VDC ±5%	M−9∼11 Page
ø 40mm Hollow shaft built−in type  C€  E40HB	E40HB8 - Resolution -2-T-5, 24 (Standard item) N E40HB6 V E40HB10 3-T-5, 24 E40HB12 N (Customizable) V 4-L-5 6	192P/R 200P/R 240P/R 250P/R 256P/R 300P/R 360P/R 400P/R 500P/R 512P/R 600P/R 800P/R	L: Line driver output (Not included in CE certification)	24: 12-24VDC ±5% (Ripple P-P: Max. 5%)  (Note) The output of Line driver is only for 5VDC.	
ø 40mm Hollow shaft built−in type	E40HB8P - Resolution - 2-T-5, 24	*1P/R 100P/ *2P/R 120P/ *5P/R 125P/ 10P/R 150P/ *12P/R 192P, 15P/R 200P/ 23P/R 240P/ 23P/R 250P/ 25P/R 30P/R 300P/ 35P/R 360P/ 40P/R 400P/ 45P/R 500P/ 50P/R 500P/ 75P/R 600P/	/R /		M−12∼14 Page

<sup>\*\*</sup>The '\*' marked pulse is only for A, B phase in resolution. (Line Driver output is for A,  $\overline{A}$ , B,  $\overline{B}$  phase.) \*\*Not indicated pulse in this chart is customizable.

## **Product Overview(Incremental Type)**

E50	Resolution -	- 3 - N	<b>—</b> 24	— Cable		
	External or inner diameter of shaft	Output		L→ No mark C:Cable	:Normal type outgoing ector type	(A) Counter
Appearances  ø 50mm shaft type  C €	Model E50S8 - Resolution - 2-T-5, 24 (Former name N : ENB) V	*2P/R 100P/R 800P/R *5P/R 120P/R 1000P/R	Control output	Power supply	Page	(B) Timer
	V 3-T-5, 24 N V	15P/R 192P/R 1500P/R 20P/R 200P/R 1800P/R 23P/R 240P/R 2000P/R			M-15~17	(C) Temp. controller
	4-L-5 6 *Cable CR:Axial connector integrated type	25P/R 250P/R 2048P/R 30P/R 256P/R 2500P/R 35P/R 300P/R 3000P/R 40P/R 360P/R 3600P/R 45P/R 400P/R 5000P/R				(D) Power controller
ø 50mm shaft type	CS:Radial connector integrated type  CS:Radial connector integrated type  E50S8P-Resolution -2-T-5, 24	50P/R 500P/R 6000P/R 60P/R 512P/R 8000P/R *1P/R 40P/R 200P/R				(E) Panel meter
y sullin shart type	(Standard item) N E50S6P V (Customizable) 3-T-5, 24 N	*2P/R 45P/R 240P/R *5P/R 50P/R 250P/R 10P/R 60P/R 256P/R	T (1): Totem pole output		M-18~20	(F) Tacho/ Speed/ Pulse meter
	V 4-L-5 6 **Plastic structure	23P/R 125P/R 500P/R 25P/R 150P/R 512P/R 30P/R 192P/R 600P/R 35P/R				(G) Display unit
ø 58mm shaft type NEW	E58SC10-Resolution - 2-T-5, 24 (Shaft Clamping) N E58SC6 V		N (2): NPN open	<b>5</b> : 5VDC ±5%		(H) Sensor controller
250	(Shaft Synchro) 3-T-5, 24 N V 4-L-5	*1P/R 250P/R	collector output			(I) Switching power supply
8	*Cable CR:Axial connector integrated type CS:Radial connector integrated type	*2P/R 256P/R *5P/R 300P/R 10P/R 360P/R *12P/R 400P/R		<b>24</b> :		(J) Proximity sensor
ø 58mm Hollow shaft type NEW	E58H12-Resolution -2-T-5, 24 N V	15P/R 500P/P	V (3): Voltage output	12-24VDC ±5% (Ripple P-P: Max. 5%)		(K) Photo electric sensor
	3-T-5, 24 N V 4-L-5	35P/R 1024P/R 40P/R 1200P/R 45P/R 1500P/R		(Note) The output of Line driver is only for 5VDC.	M-21~24	(L) Pressure sensor
	6	50P/R 1800P/R 60P/R 2000P/R 75P/R 2048P/R 100P/R 2500P/R	L:			(M) Rotary encoder
ø 58mm Hollow shaft built-in type NEW	E58HB12-Resolution -2-T-5, 24 N V	150P/R 5000P/R 192P/R 6000P/R	Line driver output (Not included in C€ certification)			(N) Stepping motor & Driver & Controller
	3-T-5, 24 N V 4-L-5	240P/R				(O) Graphic panel
	**Cable <b>6</b> CR:Axial connector integrated type CS:Radial connector integrated type					(P) Field network device
ø 60mm Hollow shaft type	E60H20-Resolution -3-T-5, 24 N V 6-L-5	5000P/R 8192P/R	*The number of ( ) is former		M-25~27	(Q) Production stoppage models & replacement
			name.			

<sup>\*</sup>The '\*' marked pulse is only for A, B phase in resolution. (Line Driver output is for A,  $\overline{A}$ , B,  $\overline{B}$  phase.) \*Not indicated pulse in this chart is customizable.

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## **Product Overview(Incremental Type)**

E80H	32 — Resolution —	3 — N	<u> </u>	— Cable	
	External or inner diameter of shaft	Output phase It is clickstopper position for handle ty	ne	C:Cable	:Normal type outgoing ector type
Appearances	Model	Resolution	Control output	Power supply	Page
φ 68mm shaft type	E68S15-1024-6-L-5	1024P/R  **Not indicated pulse in this chart is available to customize.			M-28~29
ø 80mm Hollow shaft type	E80H30-Resolution -3-T-5, 24 (Standard item) N E80H32 V (Customizable) 6-L-5	60P/R 100P/R 360P/R 500P/R 512P/R 1024P/R 3200P/R	Т (1) :		M-30~32
φ 100mm Hollow shaft type	E100H35-Resolution -3-T-5, 24 N V 6-L-5	512P/R 1024P/R 10000P/R	Totem pole output		M-33~35
Side-mounting type CE	ENA - Resolution - 2-T-5, 24  N V 3-T-5, 24 N V  **Standard: Output the A, B phase **Customizable: Output the A, B, Z phase	*1P/R 60P/R 500P/R *2P/R 75P/R 512P/R *5P/R 100P/R 600P/R 10P/R 120P/R 800P/R *12P/R 125P/R 1000P/R 15P/R 150P/R 1024P/R 20P/R 192P/R 1200P/R 23P/R 200P/R 1500P/R 25P/R 240P/R 1800P/R 30P/R 250P/R 200P/R 45P/R 360P/R 3000P/R 50P/R 400P/R 3600P/R 50P/R 400P/R 3600P/R	N (2): NPN open collector output  V (3): Voltage output	5: 5VDC ±5%  24: 12-24VDC ±5% (Ripple P-P: Max. 5%) (Note) The output	M-36~38
Measuring wheel type	ENC-1-Measurement unit] -T-5, 24 N V	1: 1mm/1Pulse 2: 1cm/1Pulse 3: 1m/1Pulse 4: 0.01yd/1Pulse 5: 0.1yd/1Pulse 6: 1yd/1Pulse	L:	of Line driver is only for 5VDC.	M-39~40
Manual handle type	ENH- Resolution -1-T-5, 24 2 1-V-5, 24 2 1-L-5 2	25P/R 100P/R	Line driver output  (Not included in C€ certification)		M-41~42
Movable encoder with handle	ENHP- Resolution -1-L-5 2	100P/R	*The number of ( ) is former name.		M-43~44

<sup>\*</sup>The '\*' marked pulse is only for A, B phase in resolution. (Line Driver output is for A,  $\overline{A}$ , B,  $\overline{B}$  phase.) \*Not indicated pulse in this chart is customizable.

## **Product Overview(Absolute Type)**

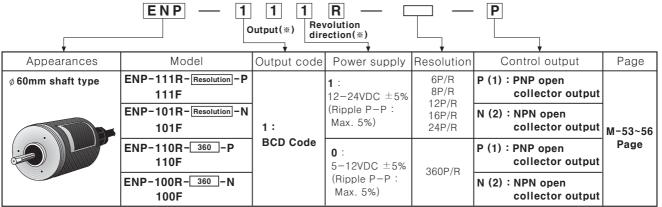
	EP50S 8 — Resolution -	- 1 R	Revolution direction(*)	5		
Appearances	Model	Resolution	Output code	Control output	Power supply	Page
ø 50mm shaft type C€	EP50S8-Resolution -1R-N(P)-5, 24 2R 3R 1F 2F 3F	*6P/R 90P/R *8P/R 128P/R *12P/R 180P/R *16P/R 256P/R *24P/R 360P/R *32P/R 512P/R *40P/R 720P/R 45P/R 1024P/R 64P/R				M-45~48 Page
φ 58mm shaft type	EP58SC10-Resolution -1R-N(P)-5,24 (Shaft Clamping) 2R EP58SC6 3R (Shaft Synchro) 1F 2F 3F		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-49~52 Page
φ 58mm Hollow shaft built-in type NEW	EP58HB8-Resolution -1R-N(P)-5,24 2R 3R 1F 2F 3F	360P/R 512P/R				, age

\*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

 $\ensuremath{\text{\#}}$  The number of (  $\ensuremath{\text{\ }}$  ) is former name in control output.



\*\*Output 
 ■ 0 : Negative logic, 1 : Positive logic

 $\hbox{\% Revolution direction} @ \textbf{R} : CCW as viewed from the shaft, \textbf{F} : CW as viewed from the shaft \\$ 

\*The number of ( ) is former name in control output.

(A) Counter

(B) Timer

(C) Temp. controller

(D) Power controller

(E) Panel meter

(F) Tacho/ Speed/ Pulse meter

(G) Display unit

(H) Sensor controller

(I) Switching power supply

(J) Proximity sensor

(K) Photo electric sensor

(L) Pressure sensor

(M) Rotary encoder

(N) Stepping motor & Driver & Controller

(O) Graphic panel

(P) Field network device

(Q) Production stoppage models & replacement

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