Product Overview(Incremental Type)

E 4 0		3 — Output	N — 24	Cable	ormal type	
	External or inner diameter of shaft	phase		Blank:Normal type C:Cable outgoing connector type		
Appearances	Model	Resolution	Control output	Power supply	Page	
ø 20mm Shaft type C€ Ø 20mm Hollow shaft built-in type	E20S2 - Resolution -3-T-5, 12 *Cable R:Rear side outgoing cable type 6-L-5 S:Side outgoing cable type E20HB2-Resolution -3-T-5, 12 E20HB2.5 N	100P/R 200P/R 320P/R		5: 5VDC ±5% 12: 12VDC ±5% (Ripple P-P: Max. 5%)	F-5 to 6	
CE O	E20HB3 V *Cable 6-L-5 R:Rear side outgoing cable type S:Side outgoing cable type	360P/R		(Note) The output of Line driver is only for 5VDC.		
	E30S4 - Resolution -3-T-5, 24 N V 6-L-5	100P/R 1000P/ 200P/R 1024P/ 360P/R 3000P/ 500P/R	R output		F-7 to 8	
	E40S6 - Resolution - 2-T-5, 24 (Standard item) N E40S8 V (Customizable) 3-T-5, 24 N V 4-L-5 6 E40H8 - Resolution - 2-T-5, 24	*1P/R 1000P/ *2P/R 1024P/ *5P/R 1200P/ 10P/R 1500P/ *12P/R 1800P/ 15P/R 2000P/ 20P/R 2048P/	R R N (2): R NPN open collector output	5 : 5VDC ±5%		
type C (Line-up	(Standard item) N E40H6 V E40H10 3-T-5, 24 E40H12 N (Customizable) V 4-L-5	23P/R 2500P/ 25P/R 3000P/ 30P/R 3600P/ 35P/R 5000P/ 40P/R 45P/R 50P/R 60P/R 75P/R 100P/R 125P/R 150P/R	R R	24: 12-24VDC ±5% (Ripple P-P: Max. 5%)	F-9 to 11	
	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)			
ø 40mm Hollow shaft built−in type	E40HB8P - Resolution - 2-T-5, 24	*1P/R 100P/I *2P/R 120P/I *5P/R 125P/I 10P/R 150P/I *12P/R 192P/I 15P/R 200P/I 20P/R 240P/I 23P/R 250P/I 25P/R 256P/I 30P/R 300P/I 35P/R 360P/I 40P/R 400P/I 50P/R 500P/I 75P/R 600P/I	*The number of () is former name.	5: 5VDC ±5% 24: 12-24VDC ±5% (Ripple P-P: Max. 5%) (Note) The output of Line driver is only for 5VDC.	F-12 to 14	

^{*}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.

F-1 Autonics

Product Overview(Incremental Type)

E50	S Resolution -	- 3 - N	— 24 -			_
	External or inner diameter of shaft	Output			outgoing	(A) Photo electric
▼ Appearances	Model	▼ Resolution	♦ Control output	the connection of the co	ector type Page	sensor (B)
ø 50mm Shaft type	E50S8 - Resolution - 2-T-5, 24 (Former name N V 3-T-5, 24 N V 4-L-5 6	*1P/R 75P/R 600P/R *2P/R 100P/R 800P/R *5P/R 120P/R 1000P/R 10P/R 125P/R 1024P/R	Control output	5: 5VDC ±5% 24: 12-24VDC ±5% (Ripple P-P: Max. 5%)	F-15 to 17	Fiber optic sensor (C) Door/Area sensor (D) Proximity sensor (E) Pressure sensor
φ 50mm Shaft type	CS:Radial connector integrated type E50S8P-Resolution-2-T-5, 24 (Standard item) N E50S6P V (Customizable) 3-T-5, 24 N V 4-L-5 6 **Plastic structure	*1P/R 40P/R 200P/R *1P/R 40P/R 200P/R *2P/R 45P/R 240P/R *5P/R 50P/R 250P/R 10P/R 60P/R 256P/R	T (1): Totem pole output		F-18 to 20	(F) Rotary encoder (G) Connector, Socket (H) Temp. controller (I) SSR/
♦ 58mm Shaft type	E58SC10-Resolution - 2-T-5, 24 (Shaft Clamping) N E58SC6 V (Shaft Synchro) 3-T-5, 24 N V 4-L-5 6 *Cable CR:Axial connector integrated type CS:Radial connector integrated type	*1P/R 250P/R *2P/R 256P/R *5P/R 300P/R 10P/R 360P/R *12P/R 400P/R	N (2): NPN open collector output	5 : 5VDC ±5%		(K) Timer (L) Panel meter
ø 58mm Hollow shaft type	E58H12-Resolution -2-T-5, 24	23P/R 600P/R 25P/R 800P/R 30P/R 1000P/R 35P/R 1024P/R 40P/R 1200P/R 45P/R 1500P/R 50P/R 1800P/R 60P/R 2000P/R 75P/R 2048P/R 100P/R 2500P/R	V (3): Voltage output	24 : 12-24VDC ±5% (Ripple P-P: Max. 5%)	F-21 to 24	(M) Tacho/ Speed/ Pulse meter (N) Display unit (O) Sensor controller (P) Switching
ø 58mm Hollow shaft built−in type C€	E58HB12-Resolution -2-T-5, 24 N V 3-T-5, 24 N V 4-L-5 *Cable 6 CR:Axial connector integrated type CS:Radial connector integrated type	150P/R 5000P/R 192P/R 6000P/R	Line driver output (Not included in C€ certification)	(Note) The output of Line driver is only for 5VDC.		power supply (Q) Stepping motor & Driver & Controller (R) Graphic/Logic panel (S) Field network device
φ 60mm Hollow shaft type Line-up	E60H20-Resolution -3-T-5, 24 N V 6-L-5	100P/R 1024P/R 5000P/R 8192P/R	*The number of () is former name.		F-25 to 27	(T) Production stoppage models & replacemen

^{*}The '*' marked pulse is only for A, B phase in resolution. (Line Driver output is for A, A, B, B phase.) *Not indicated pulse in this chart is customizable.

Autonics

Product Overview(Incremental Type)

E80H		3 — N	<u> </u>	Cable	
	External or inner diameter of shaft	It is clickstopper position for handle ty	ne L	→Blank:Normal typ C:Cable outgoing connector 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 customizable.			F-28 to 29
ø 80mm Hollow shaft type C€	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	T (1): Totem pole		F-30 to 32
ø 100mm Hollow shaft type	E100H35-Resolution -3-T-5, 24 N V 6-L-5	512P/R 1024P/R 10000P/R	output	5 : 5VDC ±5%	F-33 to 35
Side-mounting type (€	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 2000P/R 40P/R 300P/R 2500P/R 45P/R 360P/R 3000P/R 50P/R 400P/R 3600P/R 500P/R 5000P/R	NPN open collector output V (3): Voltage output	24 : 12-24VDC ±5% (Ripple P-P: Max. 5%)	F-36 to 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: Line driver	(Note) The output of Line driver is only for 5VDC.	F-39 to 40
Manual handle type Autonics	ENH- Resolution -1-T-5, 24 2 1-V-5, 24 2 1-L-5 2	25P/R 100P/R	output (Not included in C€ certification)		F-41 to 42
Portable encoder with handle	ENHP- Resolution -1-L-5 2	100P/R	*The number of () is former name.		F-43 to 44

^{*}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.

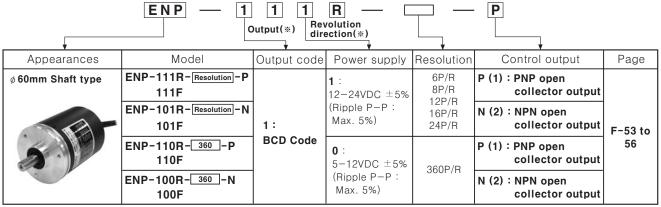
Product Overview(Absolute Type)

Appearances	EP50S 8 — Resolution - External or inner diameter of shaft Model	Resolution	Revolution direction(*)	Control output	Power supply	Page	(AP) el
ø 50mm Shaft type	EP50S8-Resolution - 1R - N(P) - 5, 24 2R 3R 1F 2F 3F	45P/R 360P/R 64P/R 512P/R 90P/R 720P/R 128P/R 1024P/R 180P/R 256P/R		Control output	rowei suppiy	F-45 to 48	(CD SC
φ 58mm Shaft type	EP58SC10-Resolution -1R-N(P)-5,24 (Shaft Clamping) 2R EP58SC6 3R (Shaft Synchro) 1F 2F 3F	45P/R 64P/R 90P/R 128P/R 180P/R 256P/R	1: BCD 2: BINARY 3: GRAY (customi-zable)	P (1): PNP open collector output N (2): NPN open collector output	5: 5VDC ±5% 24: 12-24VDC ±5% (Ripple P-P: Max. 5%)	F-49 to 52	(I P S C C S C C C S C C C S C C C C S C
ø 58mm Hollow shaft built−in type C€	EP58HB8-Resolution -1R-N(P)-5,24 2R 3R 1F 2F 3F	360P/R 512P/R 720P/R 1024P/R					(I S P C C C

*Not indicated number of division in this chart is customizable.

Revolution direction R: CCW as from the shaft, F: CW as from the shaft

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



 \Re Output $\mathbf{9}$ 0 : Negative logic, $\mathbf{1}$: Positive logic

lpha Revolution direction racking R: CCW as from the shaft, racking F: CW as from the shaft

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

■Multi-turn EPM50S 8 PN 24 10 Shaft diameter Control output Appearances Single-turn Multi-turn Output code Power supply Page PN: Parallel NEW CE NPN open 12-24VDC ±5% 10bit 13bit collector F-57 to Binary code (Ripple P-P: (1024 division) (8192 division) output 61 Max. 5%) S:SSI

Autonics F-4

(A) Photo electric sensor

(B) Fiber optic sensor

(C) Door/Area sensor

(D) Proximity sensor

(E) Pressure sensor

(F) Rotary encoder

(G) Connector/ Socket

(H) Temp. controller

(I) SSR/ Power controller

(J) Counter

(K) Timer

(L) Panel meter

Tacho/ Speed/ Pulse meter (N) Display

(O)

Sensor controller (P) Switching

supply
(Q)
Stepping
motor &
Driver &
Controller

(R) Graphic/ Logic panel

(S) Field network device

Production stoppage models & replacement