

Инкрементальные оптические энкодеры ENI58S/58K/50S/38S/38K Технические характеристики

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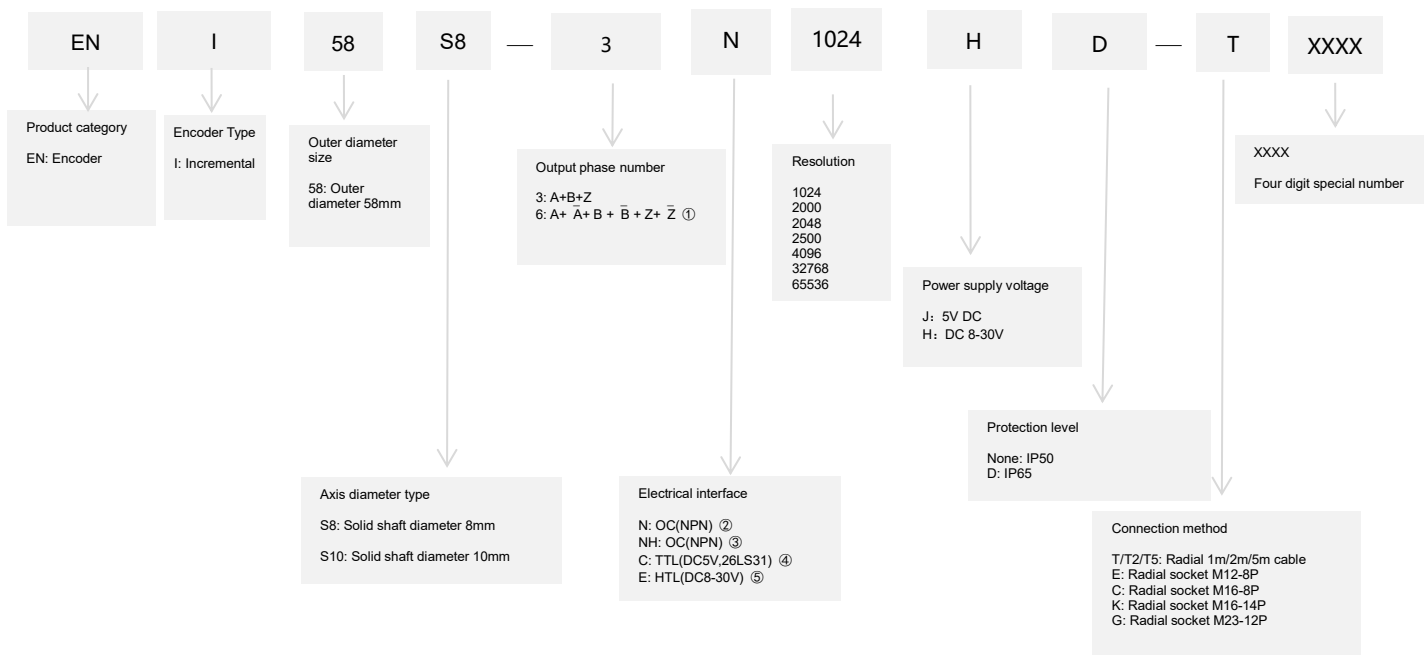
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Incremental Optical Encoder **ENI58S** series

Feature

- ◆ Encoder outer cover with a diameter of 58mm and a height of 36-40mm;
- ◆ Available in sizes of 8mm and 10mm;
- ◆ Adopting non-contact photoelectric principle;
- ◆ The highest resolution can reach 65536PPR;
- ◆ Optional alarm/sensing;
- ◆ Polarity reverse protection;
- ◆ Short circuit protection.

Naming rules


① When the output phase number is 6: A+ \bar{A} + B + \bar{B} + Z+ \bar{Z} , the electrical interface can only choose C: TTL(DC5V, 26LS31) or E: HTL (DC8-30V).

② Z signal is low level active (The recommended resolution is less than 5000PPR).

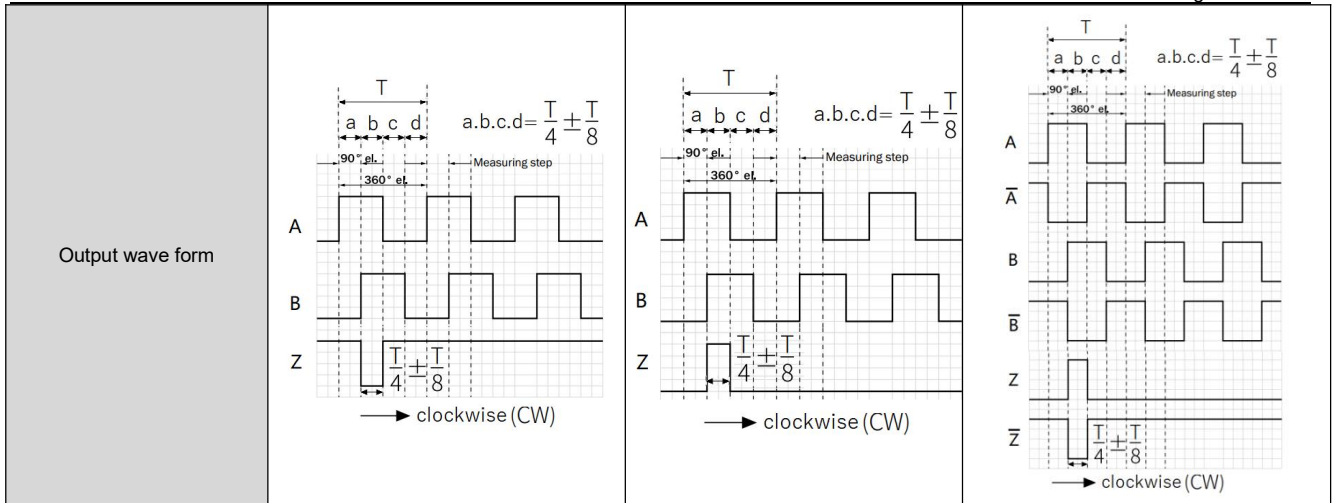
③ Z signal is high level active (The recommended resolution is less than 5000PPR).

④ If the electrical interface is TTL(DC5V, 26LS31), the corresponding power supply voltage type can only be 5V DC.

⑤ If the electrical interface is HTL(DC8-30V), the corresponding power supply voltage type can only be 8-30V DC.

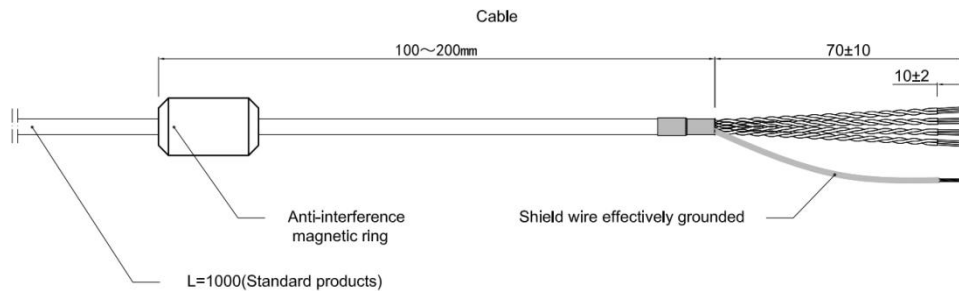
Specification parameters

Parameter		OC(N)	OC(NH)	TTL	HTL
Supply voltage		DC+5V±5%; DC8V-30V±5%		DC+5V±5%	DC8-30V±5%
Consumption current		100mA Max		120mA Max	
Allowable ripple		≤3%rms			
Top response frequency		100kHz		300kHz	500kHz
Output capacity	Output current	Input	≤30mA	≤±20mA	≤±50mA
		Output	—		
	Output voltage	"H"	—	≥2.5V	≥V _{cc} -3 VDC
		"L"	≤0.4V	≤0.5V	≤1V VDC
Load voltage		≤DC30V		—	
Rise & Fall time		Less than 2us (cable length: 2m)		Less than 1us (Cable length:2m)	
Insulation strength		AC500V 60s			
Insulation resistance		10MΩ			
Mark to space ratio		45% to 55%			
Reverse polarity protection		√			
Short-circuit protection		√①		—	
Phase shift between A & B		90° ±10° (frequency in low speed)			
		90° ±20° (frequency in high speed)			
GND		Not connect to encoder			
Diameter of shaft		φ8mm; φ10mm available			
Shaft material		Stainless steel			
Starting torque		at+20°C IP50<0.05 Nm; IP65<0.1 Nm			
Inertia moment		Less than 3×10 ⁻⁶ kg·m ²			
Shaft load		Radial 60N; Axial 40N			
Permissible movement static		±0.3mm(radial); ±0.5mm (axial)			
Permissible movement dynamic		±0.05mm (radial); ±0.1mm (axial)			
Max.angular acceleration		≤500,000 rad/s ²			
Operating speed		6000 r/min②			
Bearing lifetime		3.6×10 ⁹ hrs③			
Housing material		Aluminum alloy			
Weight		Approx.420g			
Shell protection grade		IP65 (Max)			
Permissible relative humidity		90°, condensation not permitted			
Operating temperature range		-40°C...+95°C			
Storage temperature range		-40°C....+95°C			
Resistance to shocks		100g, 6ms (EN60068-2-27) ④			
Frequency range of resistance to vibrations		30g, 10Hz...1,000Hz (EN60068-2-6) ⑤			
Output circuit		<p>Transmission distance: 50m MAX I_c=20mA</p>		<p>Transmission distance : 200m MAX</p>	



- ① Short-circuit to another channel or GND (PNP is effective for Up), permitted for max. 30s.
- ② Allow for self-heating of approx. 3.0K per 1000rpm regarding the permissible operating temperature.
- ③ On maximum operating speed and temperature.
- ④ Checked during operation using vector length monitoring.
- ⑤ Checked during operation using vector length monitoring, including matching plug.

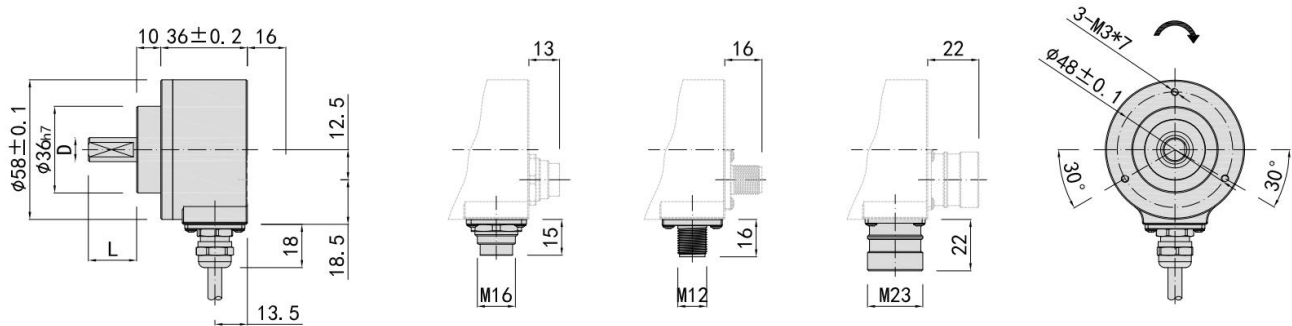
Wiring table



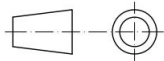
					Signal	Explanation	Twisted wire
E: Radial socket M12-8P	C: Radial socket M16-8P	K: Radial socket M16-14P	G: Radial socket M23-12P	Wire colors (cable connection)			
1	1	A	1	Red	Up	Power positive	
2	2	C	2	Black	Un	Power negative	
3	3	L	3	White	A	Signal wire	
4	4	U	4	White/ BK	\bar{A}	Signal wire	
5	5	J	5	Green	B	Signal wire	
6	6	T	6	Green/ BK	\bar{B}	Signal wire	
7	7	G	7	Yellow	Z	Signal wire	
8	8	S	8	Yellow/ BK	\bar{Z}	Signal wire	
-	-	E	9	Blue	$\bar{\text{Alarm}}$	Explanation	
-	-	R	10	Pink	Sense VCC	Power positive	
-	-	P	11	Gray	Sense OV	Power negative	
-	-	M	12	-	N.C.	未分配	

-	-	N	-	-	N.C.	未分配	
		0	-	-	N.C.	未分配	
GND		Not connect to encoder					

Dimensional drawing



Unit: mm



= Direction of shaft rotation for signal output

D (Shaft diameter)	$\Phi 8_{h7}(\begin{smallmatrix} 0 \\ -0.015 \end{smallmatrix})$	$\Phi 10_{h7}(\begin{smallmatrix} 0 \\ -0.018 \end{smallmatrix})$
L	20	20

Accessories

Coupler	Dimensions	D1	D2	Model
Cross type:M series 	 Main body material:aluminum alloy	Φ6mm	Φ8mm	LB-M0608
		Φ8mm	Φ8mm	LB-M0808
		Φ8mm	Φ10mm	LB-M0810
Diaphragm type:W series 	 Main body material:aluminum alloy	Φ6mm	Φ8mm	LB-W0608
		Φ8mm	Φ8mm	LB-W0808
		Φ8mm	Φ10mm	LB-W0810

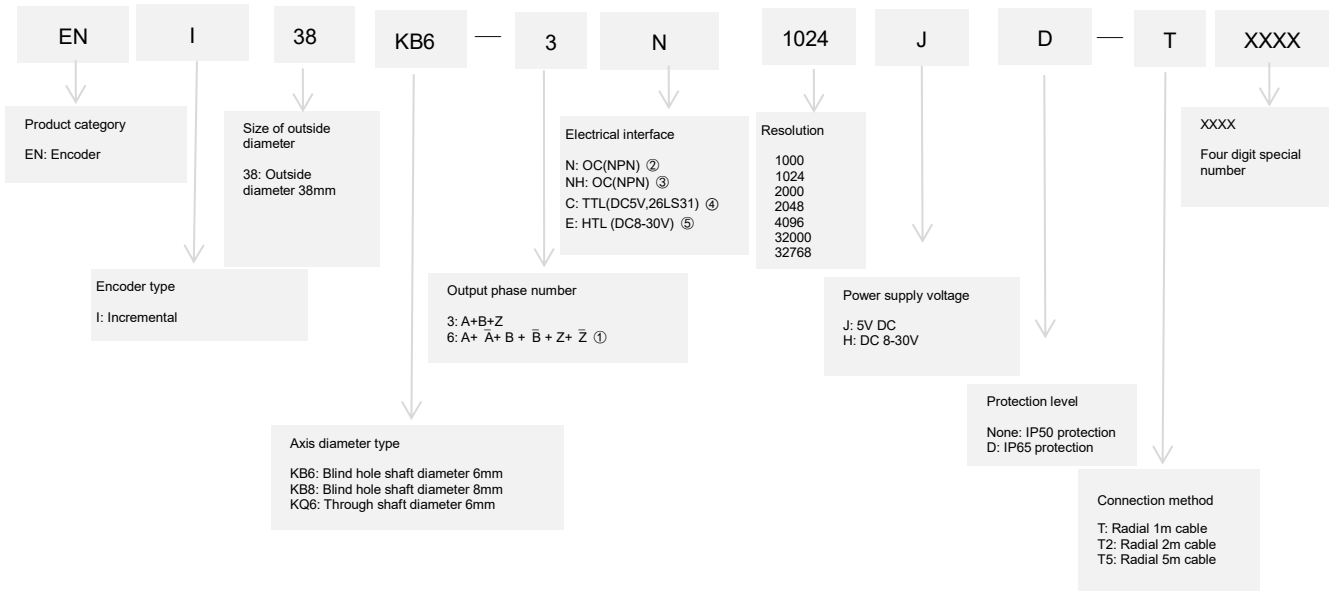
Incremental Optical Encoder ENI38K series



Feature

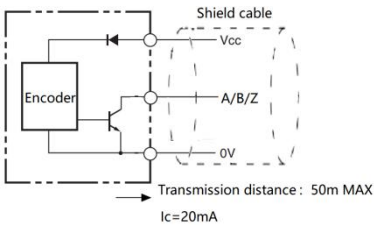
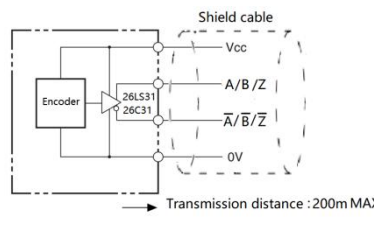
- ◆ Encoder external diameter $\phi 38\text{mm}$, thickness 38mm, diameter of shaft up to $\phi 8\text{mm}$;
- ◆ Ring locking structure;
- ◆ Adopt non-contact photoelectric principle;
- ◆ Reverse polarity protection;
- ◆ Short circuit protection;
- ◆ Multiple electrical interfaces available;
- ◆ Resolution per turn up to 32768PPR.

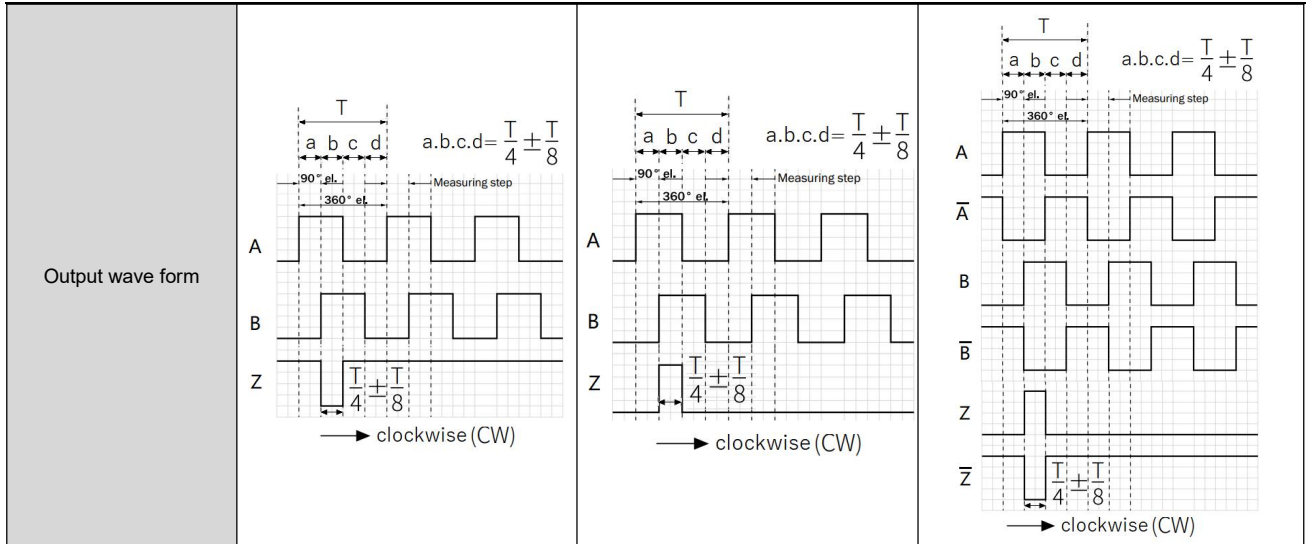
Naming rules



- ① When the output phase number is 6: A+ \bar{A} + B + \bar{B} + Z+ \bar{Z} , the electrical interface can only choose C: TTL(DC5V, 26LS31) or E: HTL (DC8-30V).
- ② Z signal is low level active (The recommended resolution is less than 5000PPR).
- ③ Z signal is high level active (The recommended resolution is less than 5000PPR).
- ④ If the electrical interface is TTL(DC5V, 26LS31), the corresponding power supply voltage type can only be 5V DC.
- ⑤ If the electrical interface is HTL(DC8-30V), the corresponding power supply voltage type can only be 8-30V DC.

Specification parameters

Parameter		OC(N)	OC(NH)	TTL	HTL
Supply voltage		DC+5V±5%; DC8V-30V±5%		DC+5V±5%	DC8-30V±5%
Consumption current		100mA Max		120mA Max	
Allowable ripple		≤3%rms			
Top response frequency		100 kHz		300 kHz	500 kHz
Output capacity	Output current	Input	≤30mA	≤±20mA	≤±50mA
		Output	—		
	Output voltage	"H"	—	≥2.5V	≥V _{cc} -3 VDC
		"L"	≤0.4V	≤0.5V	≤1V VDC
Load voltage		≤DC30V		—	
Rise & Fall time		Less than 2us (cable length: 2m)		≤100ns Less than 1us (cable length: 2m)	
Insulation strength		AC500V 60s			
Insulation resistance		10MΩ			
Mark to space ratio		45% to 55%			
Reverse polarity protection		√			
Short-circuit protection		—		√①	
Phase shift between A & B		90°±10° (frequency in low speed)			
		90°±20° (frequency in high speed)			
GND		Not connect to encoder			
Diameter of shaft		φ6mm; φ8mm (optional)			
Starting torque		Less than 9.8×10 ⁻³ N·m			
Inertia moment		Less than 6.5×10 ⁻⁶ kg·m ²			
Shaft load		Radial 30N; Axial 20N			
Slew speed		≤6000 rpm(IP50); ≤4000 rpm (IP65)			
Bearing Life		1.5X10 ⁹ revs at rated load (100000hrs at 2500RPM)			
Shell		Aluminium alloy			
Weight		about 140g			
Environmental temperature		Operating:-20~+90°C (repeatable winding cable:-10°C); Storage: -25~+95°C			
Environmental humidity		Operating and storage: 35~85%RH (non-condensing)			
Vibration (Endurance)		Amplitude 0.75mm, 5~55Hz, 2h for X, Y, Z direction individually			
Shock (Endurance)		490m/s ² 11ms three times for X, Y, Z direction individually			
Protection		IP50; IP65			
Output circuit					



① Short-circuit to another channel or GND permitted for max 30s.

Wiring table

OC(Wiring table for cable connection)

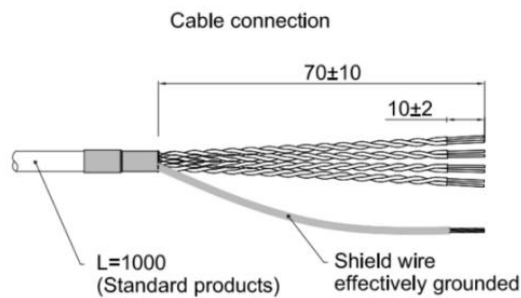
Wire color	Supply voltage		Incremental signal		
	Red	Black	White	Green	Yellow
Function	Up	0V	A	B	Z

TTL/HTL (Wiring table for cable connection)

Wire color	Supply voltage		Incremental signal					
	Red	Black	White	White/BK	Green	Green/BK	Yellow	Yellow/ BK
Function	Up	0V	A+	A-	B+	B-	Z+	Z-
Twisted-paired cable								

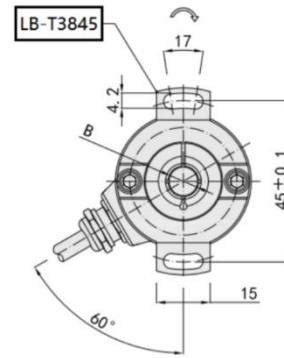
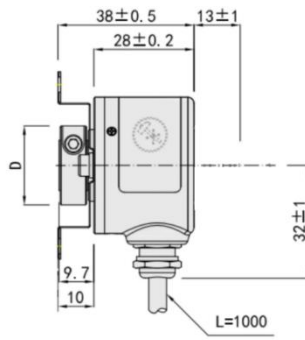
Up=Supply voltage.

Shield wire is not connected to the internal circuit of encoder

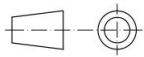


Dimensional drawing

B (Blind shaft)	Q (Through shaft)	D
Φ6mm	Φ6mm	φ20
Φ8mm	/	φ22



Unit: mm



= Shaft rotation direction of the signal output

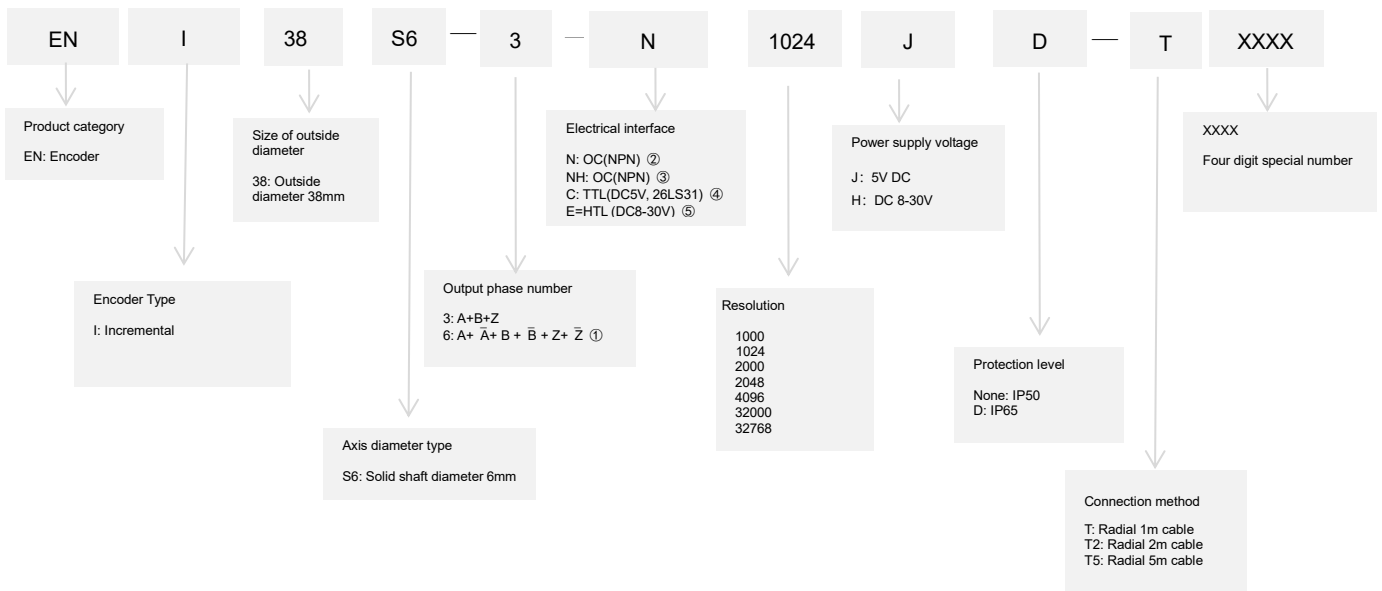
Accessories

Spring plate options	Dimensions	Model
		LB-T3845
		LB-T3846

Incremental Optical Encoder **ENI38S** series

Feature

- ◆ Encoder diameter of 38mm, thickness of 28mm, standard shaft diameter of 6mm;
- ◆ Adopting non-contact photoelectric principle;
- ◆ Polarity reverse protection;
- ◆ Short circuit protection;
- ◆ Multiple electrical interfaces are available for selection;
- ◆ The maximum weekly resolution can reach 32768PPR.

Naming rules


① When the output phase number is 6: A+ \bar{A} + B + \bar{B} + Z+ \bar{Z} , the electrical interface can only choose C: TTL(DC5V, 26LS31) or E: HTL (DC8-30V).

② Z signal is low level active (The recommended resolution is less than 5000PPR).

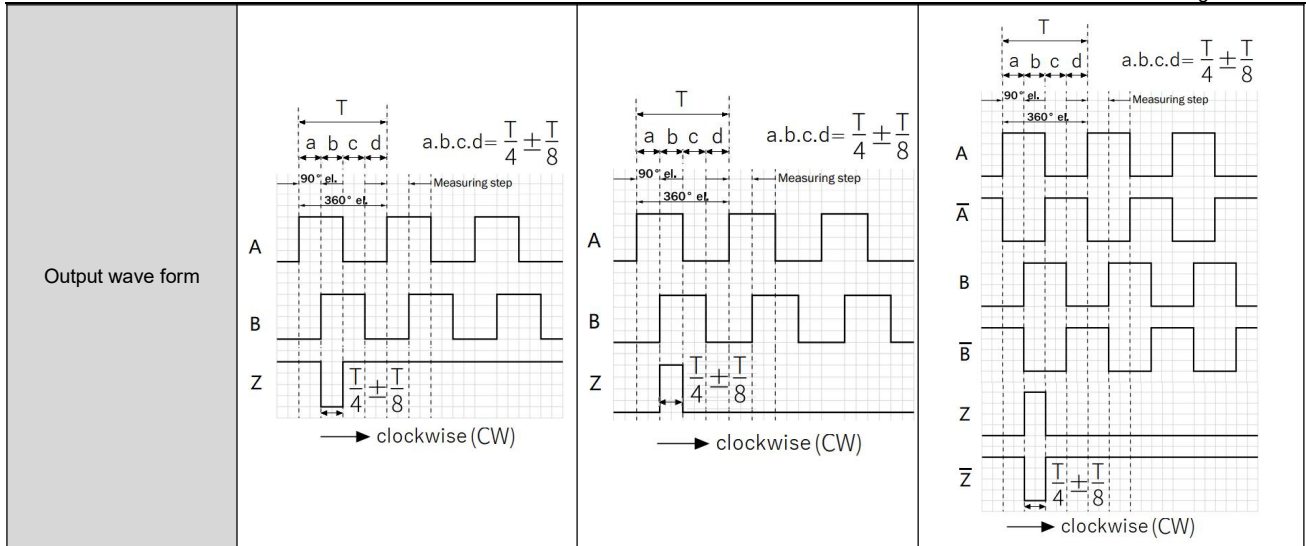
③ Z signal is high level active (The recommended resolution is less than 5000PPR).

④ If the electrical interface is TTL(DC5V, 26LS31), the corresponding power supply voltage type can only be 5V DC.

⑤ If the electrical interface is HTL(DC8-30V), the corresponding power supply voltage type can only be 8-30V DC.

Specification parameters

Parameter		OC(N)	OC(NH)	TTL	HTL	
Supply voltage		DC+5V±5%; DC8V-30V±5%		DC+5V±5%	DC8-30V±5%	
Consumption current		100mA Max		120mA Max		
Allowable ripple		≤3%rms				
Top response frequency		100 kHz		300 kHz	500 kHz	
Output capacity	Output current	Input	≤30mA	≤±20mA	≤±50mA	
		Output	—			
	Output voltage	“H”	—	≥2.5V	≥V _{cc} -3 VDC	
		“L”	≤0.4V	≤0.5V	≤1V VDC	
Load voltage		≤DC30V		—		
Rise & Fall time		Less than 2us (cable length: 2m)		≤100ns Less than 1us (cable length: 2m)		
Insulation strength		AC500V 60s				
Insulation resistance		10MΩ				
Mark to space ratio		45% to 55%				
Reverse polarity protection		√				
Short-circuit protection		—		√①		
Phase shift between A & B		90°±10° (frequency in low speed)				
		90°±20° (frequency in high speed)				
GND		Not connect to encoder				
Diameter of shaft		φ6mm; φ8mm (D type, stainless steel material)				
Starting torque		Less than 4.4×10 ⁻³ N·m				
Inertia moment		Less than 1.5×10 ⁻⁶ kg·m ²				
Shaft load		Radial 30N; Axial 20N				
Slew speed		≤6000 rpm(IP50); ≤4000 rpm (IP65)				
Bearing Life		1.5X10 ⁹ revs at rated load (100000hrs at 2500RPM)				
Shell		Aluminium alloy				
Weight		about 120g				
Environmental temperature		Operating:-20~+90°C (repeatable winding cable:-10°C); Storage: -25~+95°C				
Environmental humidity		Operating and storage: 35~85%RH (non-condensing)				
Vibration (Endurance)		Amplitude 0.75mm, 5~55Hz, 2h for X, Y, Z direction individually				
Shock (Endurance)		490m/s ² 11ms three times for X, Y, Z direction individually				
Protection		IP50; IP65				
Output circuit						



① Short-circuit to another channel or GND permitted for max 30s.

Wiring table

OC (Wiring table for cable connection)

	Supply voltage		Incremental signal		
Wire color	Red	Black	White	Green	Yellow
Function	Up	0V	A	B	Z

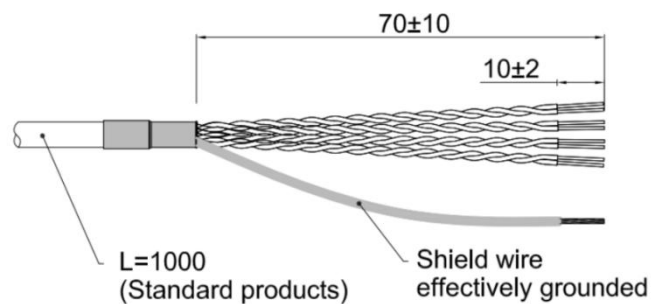
TTL/HTL(Wiring table for cable connection)

	Supply voltage		Incremental signal					
Wire color	Red	Black	White	White/BK	Green	Green/ BK	Yellow	Yellow/ BK
Function	Up	0V	A+	A-	B+	B-	Z+	Z-
Twisted-paired cable								

Up=Supply voltage.

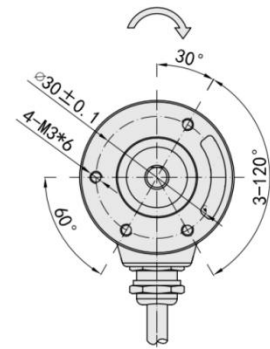
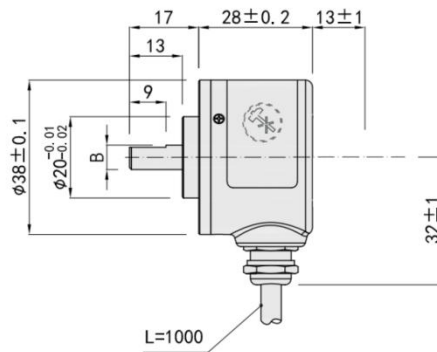
Shield wire is not connected to the internal circuit of encoder.

Cable connection

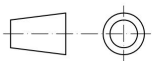


Dimensional drawing

B (D type, solid shaft)
Φ6mm


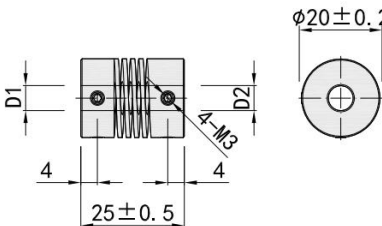
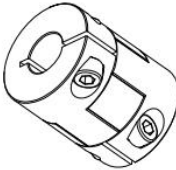
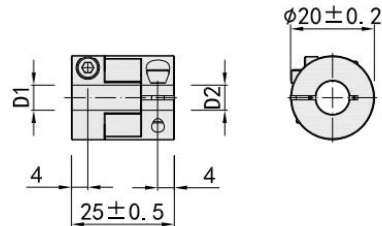


Unit: mm



↻ = Shaft rotation direction of the signal output

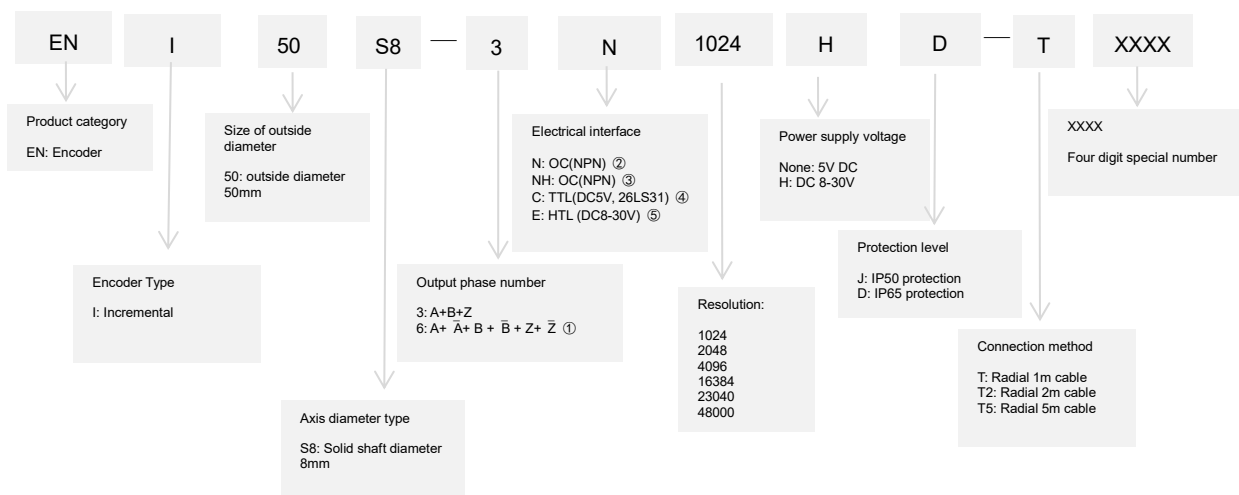
Accessories

Accessories	Dimensions	D1	D2	Model
Spring type H series coupling 	 Main body material: aluminum alloy	Φ6mm	Φ6mm	LB-H0606
		Φ6mm	Φ8mm	LB-H0608
Crossover type M series coupling 	 Main body material: aluminum alloy	Φ6mm	Φ6mm	LB-M0606
		Φ6mm	Φ8mm	LB-M0608

Incremental encoder **ENI50S** series

Feature

- ◆ Encoder diameter of 50mm, thickness of 30mm, shaft diameter of 8mm (D type);
- ◆ Adopting non-contact photoelectric principle;
- ◆ Polarity reverse protection;
- ◆ Short circuit protection;
- ◆ The resolution can reach up to 48000PPR.

Naming rules


① When the output phase number is 6: A+ \bar{A} + B + \bar{B} + Z+ \bar{Z} , the electrical interface can only choose C: TTL(DC5V, 26LS31) or E: HTL (DC8-30V).

② Z signal is low level active (The recommended resolution is less than 5000PPR).

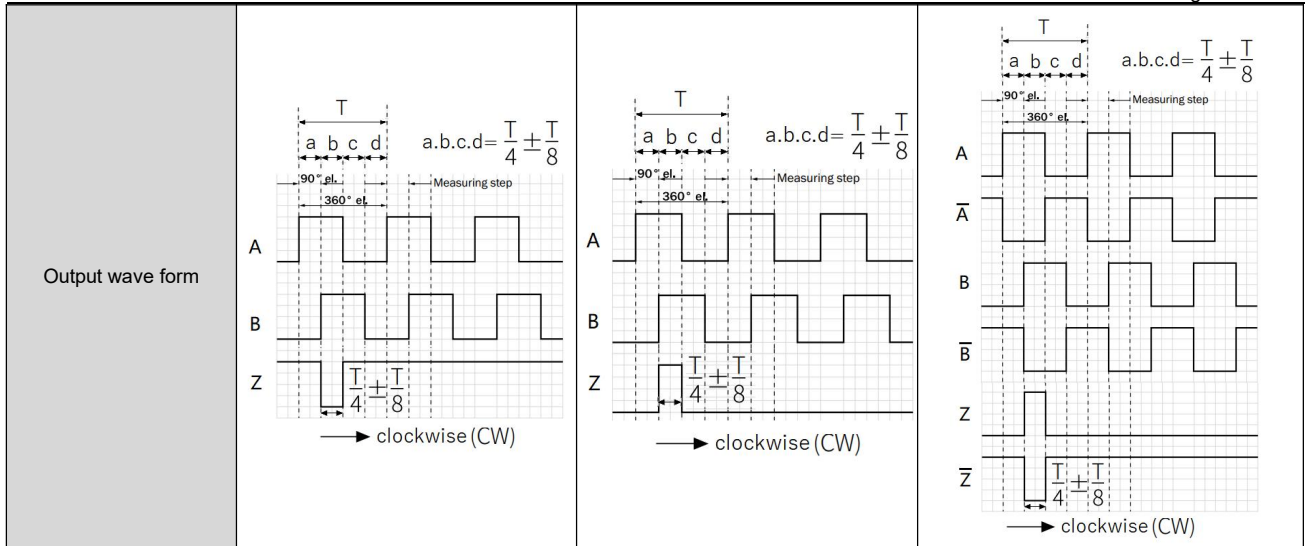
③ Z signal is high level active (The recommended resolution is less than 5000PPR).

④ If the electrical interface is TTL(DC5V, 26LS31), the corresponding power supply voltage type can only be 5V DC.

⑤ If the electrical interface is HTL(DC8-30V), the corresponding power supply voltage type can only be 8-30V DC.

Specification

Parameter		OC(N)	OC(NH)	TTL	HTL	
Supply voltage		DC+5V±5%; DC8V-30V±5%		DC+5V±5%	DC8-30V±5%	
Consumption current		100mA Max		120mA Max		
Allowable ripple		≤3%rms				
Top response frequency		100kHz		300kHz	500kHz	
Output capacity	Output current	Input	≤30mA	≤±20mA	≤±50mA	
		Output	—			
	Output voltage	"H"	—	≥2.5V	≥V _{cc} -3 VDC	
		"L"	≤0.4V	≤0.5V	≤1V VDC	
Load voltage		≤DC30V		—		
Rise & Fall time		Less than 2us (cable length: 2m)		≤100ns Less than 1us (cable length: 2m)		
Insulation strength		AC500V 60s				
Insulation resistance		10MΩ				
Mark to space ratio		45% to 55%				
Reverse polarity protection		√				
Short-circuit protection		—		√①		
Phase shift between A & B		90° ±10° (frequency in low speed)				
		90° ±20° (frequency in high speed)				
GND		Not connect to encoder				
Diameter of shaft		φ8mm (D type, stainless steel material)				
Starting torque		Less than 5×10 ⁻³ N·m				
Inertia moment		Less than 3×10 ⁻⁶ kgm ²				
Shaft load		Radial 40N; Axial 20N				
Slew speed		≤6000 rpm(IP50); ≤4000 rpm (IP65)				
Bearing Life		1.5X10 ⁹ revs at rated load (100000hrs at 2500RPM)				
Shell		Aluminium alloy				
Weight		about 190g				
Environmental temperature		Operating: -20~+90°C (repeatable winding cable: -10°C); Storage: -25~+95°C				
Environmental humidity		Operating and storage: 35~85%RH (non-condensing)				
Vibration (Endurance)		Amplitude 0.75mm, 5~55Hz, 2h for X, Y, Z direction individually				
Shock (Endurance)		490m/s ² 11ms three times for X, Y, Z direction individually				
Protection		IP50; IP65				
Output circuit		<p>Transmission distance : 50m MAX I_c=20mA</p>		<p>Transmission distance : 200m MAX</p>		



① Short-circuit to another channel or GND permitted for max 30s.

Wiring table

OC(Wiring table for socket and cable connection)

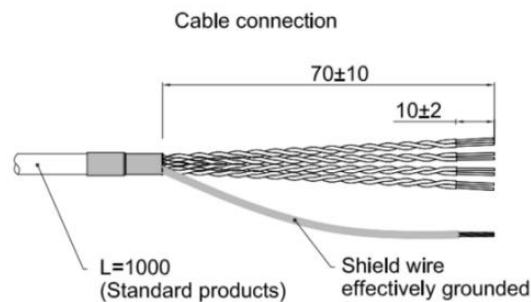
	Supply voltage		Incremental signal		
Wire color	Red	Black	White	Green	Yellow
Function	Up	0V	A	B	Z

TTL/HTL(Wiring table for socket and cable connection)

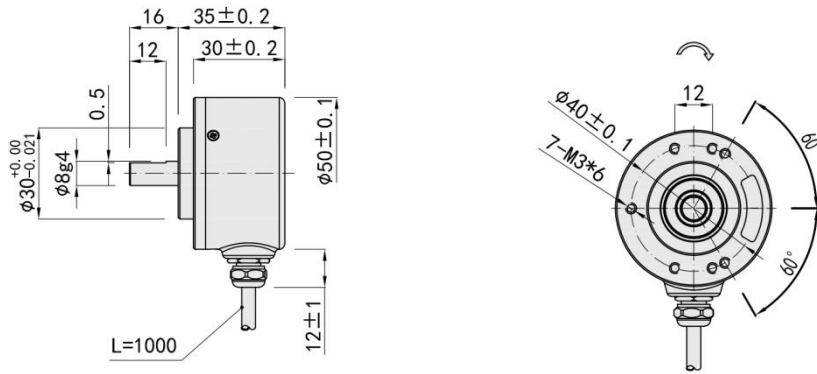
	Supply voltage		Incremental signal					
Wire color	Red	Black	White	White/ BK	Green	Green/ BK	Yellow	Yellow/ BK
Function	Up	0V	A+	A-	B+	B-	Z+	Z-
Twisted-paired cable								

Up=Supply voltage.

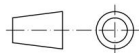
Shield wire is not connected to the internal circuit of encoder.



Dimensional drawing


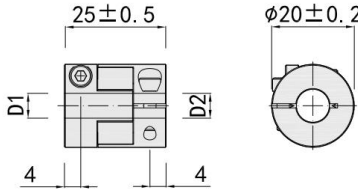

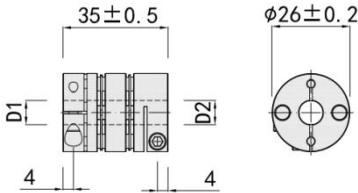
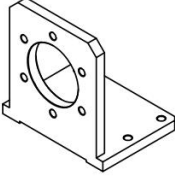
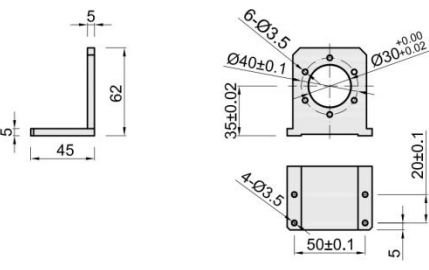


Unit: mm



↻ = Shaft rotation direction of incremental signal output

Accessories

Coupler	Dimensions	D1	D2	Model
Cross type: M series 	 <p>Main body material: aluminum alloy</p>	$\phi 6\text{mm}$	$\phi 8\text{mm}$	LB-M0608
		$\phi 8\text{mm}$	$\phi 8\text{mm}$	LB-M0808
		$\phi 8\text{mm}$	$\phi 10\text{mm}$	LB-M0810
Diaphragm type: W series 	 <p>Main body material: aluminum alloy</p>	$\phi 6\text{mm}$	$\phi 8\text{mm}$	LB-W0608
		$\phi 8\text{mm}$	$\phi 8\text{mm}$	LB-W0808
		$\phi 8\text{mm}$	$\phi 10\text{mm}$	LB-W0810
Mounting bracket	Dimensions			Model
	 <p>Material: aluminum alloy</p>			LB-L5030

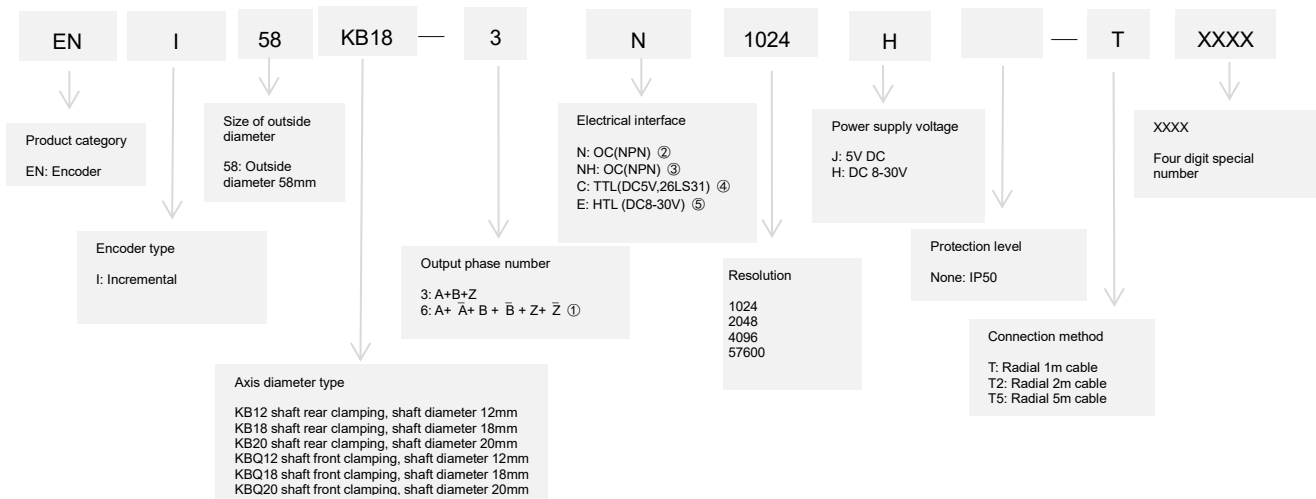
Incremental Optical Encoder **ENI58K** series



Feature

- ◆ Encoder diameter of 58mm, thickness of 24& 29mm, maximum shaft aperture of 22mm;
- ◆ Adopting non-contact photoelectric principle;
- ◆ Polarity reverse protection;
- ◆ Short circuit protection;
- ◆ Multiple electrical interfaces available;
- ◆ Resolution can reach up to 57600PPR.

Naming rules



① When the output phase number is 6: A+ \bar{A} + B + \bar{B} + Z+ \bar{Z} , the electrical interface can only choose C: TTL(DC5V, 26LS31) or E: HTL (DC8-30V).

② Z signal is low level active (The recommended resolution is less than 5000PPR).

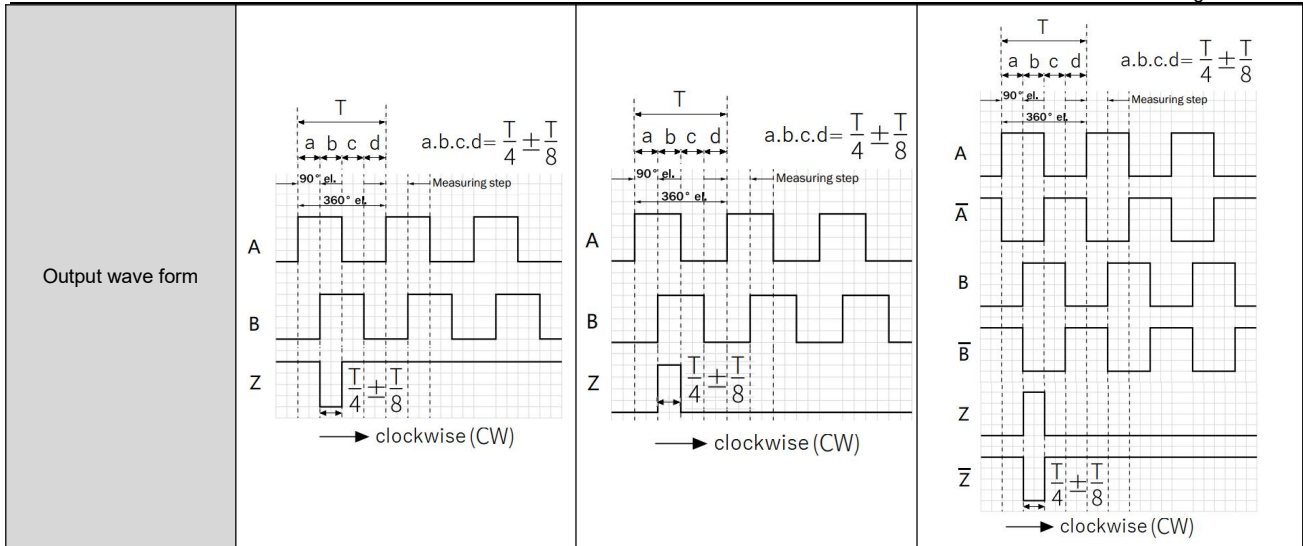
③ Z signal is high level active (The recommended resolution is less than 5000PPR).

④ If the electrical interface is TTL(DC5V, 26LS31), the corresponding power supply voltage type can only be 5V DC.

⑤ If the electrical interface is HTL(DC8-30V), the corresponding power supply voltage type can only be 8-30V DC.

Specification parameters

Parameter		OC(N)	OC(NH)	TTL	HTL
Supply voltage		DC+5V±5%; DC8V-30V±5%		DC+5V±5%	DC8-30V±5%
Consumption current		100mA Max		120mA Max	
Allowable ripple		≤3%rms			
Top response frequency		100kHz		300kHz	500kHz
Output capacity	Output current	Input	≤30mA	≤±20mA	≤±50mA
		Output	—		
	Output voltage	“H”	—	≥2.5V	≥V _{cc} -3 VDC
		“L”	≤0.4V	≤0.5V	≤1V VDC
Load voltage		≤DC30V		—	
Rise & Fall time		Less than 2us (cable length: 2m)		Less than 1us (Cable length:2m)	≤100ns
Insulation strength		AC500V 60s			
Insulation resistance		10MΩ			
Mark to space ratio		45% to 55%			
Reverse polarity protection		√			
Short-circuit protection		—		√①	
Phase shift between A & B		90° ±10° (frequency in low speed)			
		90° ±20° (frequency in high speed)			
GND		Not connect to encoder			
Diameter of shaft		φ18mm; φ20mm (optional)			
Starting torque		Less than 9.8×10 ⁻³ N·m			
Inertia moment		Less than 6.5×10 ⁻⁶ kg·m ²			
Shaft load		Radial 50N; Axial 30N			
Slew speed		≤3000 rpm			
Bearing Life		1.5X10 ⁹ hrs revs at rated load (100000hrs at 2500RPM)			
Shell		Aluminium alloy			
Weight		about 150g			
Environmental temperature		Operating:-20~+85°C (repeatable winding cable: -10°C); Storage: -20~+90°C			
Environmental humidity		Operating and storage: 35~85%RH (non-condensing)			
Vibration (Endurance)		Amplitude 1.52mm, 5~55Hz, 2h for X, Y, Z direction individually			
Shock (Endurance)		980m/s ² 11ms three times for X, Y, Z direction individually			
Protection		IP50			
Output circuit		<p>Transmission distance : 50m MAX I_c=20mA</p>		<p>Transmission distance : 200m MAX</p>	



- ① Short-circuit to another channel or GND permitted for max 30s.
- ② Phase A.B.Z are back of phase U.V.W when power on.

Wiring table

OC(Wiring table for socket and cable connection)

Wire color	Supply voltage		Incremental signal		
	Red	Black	White	Green	Yellow
Function	Up	0V	A	B	Z

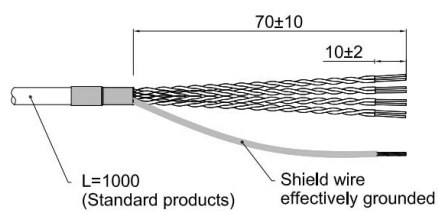
TTL/HTL(Wiring table for socket and cable connection)

Wire color	Supply voltage		Incremental signal					
	Red	Black	White	White/ BK	Green	Green/ BK	Yellow	Yellow/ BK
Function	Up	0V	A+	A-	B+	B-	Z+	Z-
Twisted-paired cable								

Up=Supply voltage.

Shield wire is not connected to the internal circuit of encoder.

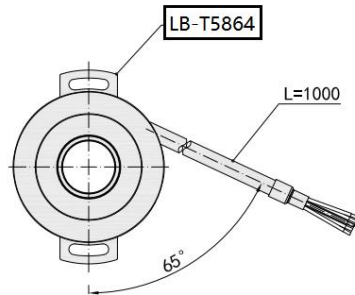
Cable connection



Dimensional drawing

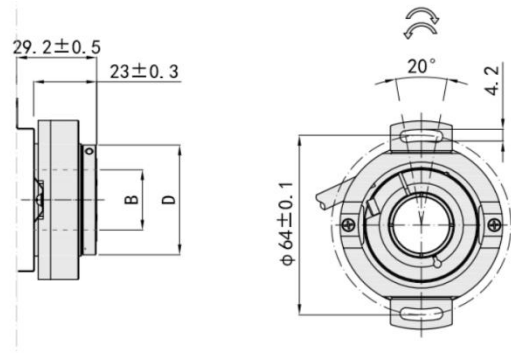
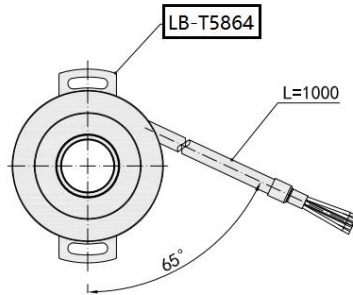
KBQ (clamping ring at prior):

BQ (Shaft)	D
Φ12	Φ35
Φ18	Φ37
Φ20	Φ41

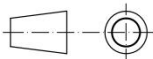


KB (clamping ring at prior):

BQ (Shaft)	D
Φ12	Φ35
Φ18	Φ37
Φ20	Φ41



Unit: mm



= Direction of shaft rotation for incremental signal output

= Direction of shaft rotation for servo motor-specific signal output

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