

Абсолютные энкодеры ENA58S/ENA39S

Технические характеристики

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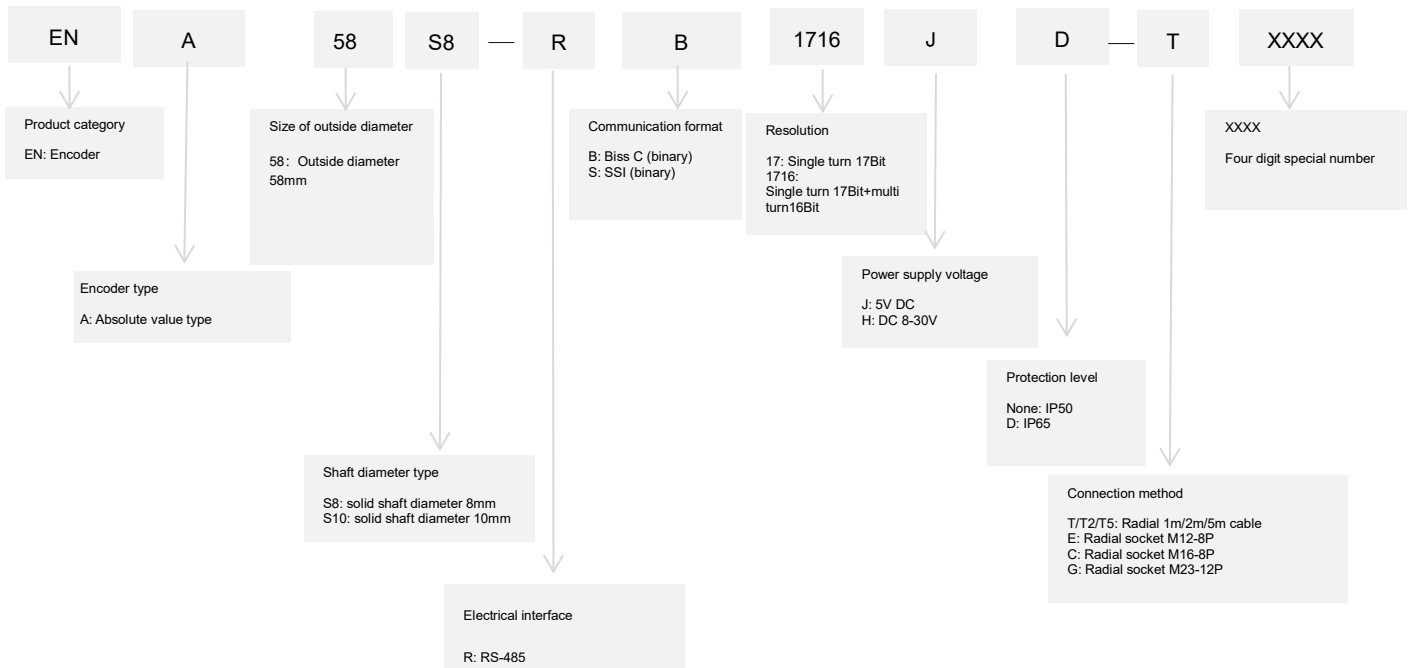
Absolute encoder **ENA58S** Series



Features

- ◆ Encoder external diameter $\Phi 58\text{mm}$, thickness 36-40mm, diameter of shaft of $\Phi 8\text{mm}$, $\Phi 10\text{mm}$ available;
- ◆ Adopt non-contact photoelectric reflection principle M-code principle;
- ◆ Interface: BiSS_C or SSI;
- ◆ Accuracy: $\pm 80''$;
- ◆ Support multi-turn data recording without power failure.

Naming rules

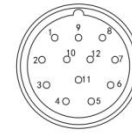


Specification parameters

Name	Parameter
Scanning principle	Photoelectric
Accuracy	±80"
Response speed	Normal action:6000r/min
position data jitter	±2 @18 Bits/r
Communication	BiSS_C (Binary)
	SSI (Binary)
Communication clock frequency	≤10 MHz (BiSS) or ≤5 MHz (SSI)
Resolution	Single turn 17 bits, multi turn 16 bits
Starting time	Typical value: 13 ms
Absolute position sampling period	≤75 ns
Allowable speed	≤32200 r/min
Cable	Differential twisted-paired cable
Cable length	1m (Optional 1m, 2m and 5m)
Internal single-turn position update rate	15000kHz
Internal multi-turn position update rate	11.5kHz
Temperature alarm limit value	-40℃~95℃
Mechanical connection	Clamping flange or synchro flange
Diameter of shaft	φ8mm, φ10mm (D type, solid shaft)
Shaft material	Stainless steel
Starting torque	At +20℃ IP50<0.05 Nm; IP65<0.1 Nm
Inertia moment	Less than $3 \times 10^{-6} \text{ kg} \cdot \text{m}^2$
Shaft load	Radial 60N; Axial 40N
Allowed speed	≤6000 rpm
Shell material	Aluminium alloy
Weight	Operating: -40~95℃
	Storage: -40~+95℃
Environmental humidity	Operating and storage: 35~85%RH (Non-condensing)
Vibration	Amplitude 1.52mm, 5~55HZ, 2h for X, Y, Z direction individually
Shock	980m/s ² 11ms three times for X, Y, Z direction individually
Protection	IP50; IP65
Supply voltage	5V DC; 8-30V DC
Supply current	120 mA

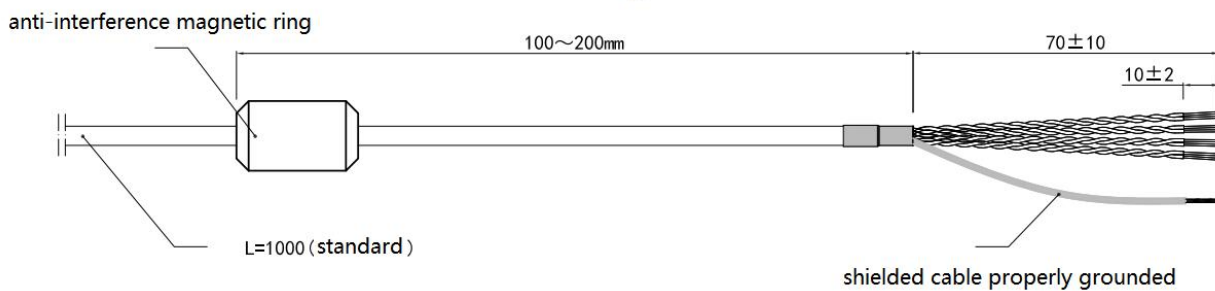
Interface definition


 Socket pin definition
(M12 8-pin)

 Socket pin definition
(M16 8-pin)

 Socket pin definition
(M23 12-pin)

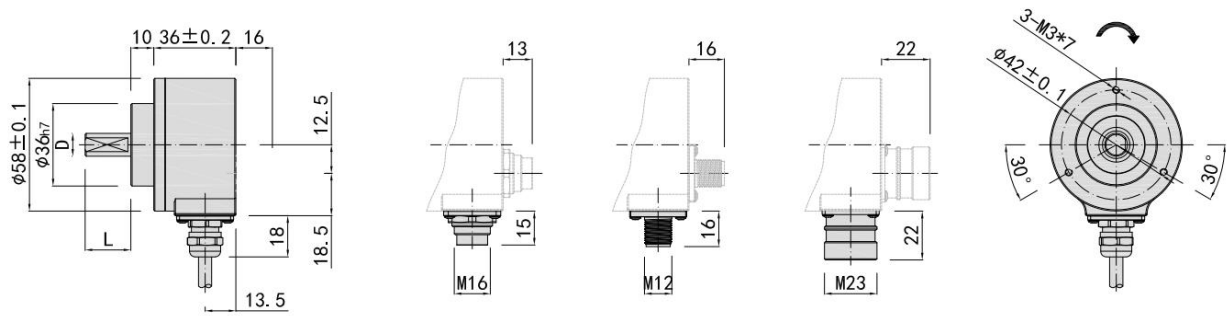
Wire color	PIN NO.	Signal				Function	Twisted-paired cable
		BISS_C ST	BISS_C MT	SSI ST	SSI MT		
Red	1	Up	Up	Up	Up	Power positive	
Black	2	Un	Un	Un	Un	Power negative	
White	3	SL-	SL-	DATA-	DATA-	Data signal	
White/BK	4	SL+	SL+	DATA+	DATA+	Data signal	
Green	5	MA-	MA-	CLOCK-	CLOCK-	Clock signal	
Green/BK	6	MA+	MA+	CLOCK+	CLOCK+	Clock signal	
Yellow	7	N.C.	Vbat	N.C.	Vbat	Backup power supply	
Yellow/BK	8	N.C.	0V	N.C.	0V	0V	
-	9	N.C.	N.C.	N.C.	N.C.	Unallocated	-
-	10	N.C.	N.C.	N.C.	N.C.	Unallocated	-
-	11	N.C.	N.C.	N.C.	N.C.	Unallocated	-
-	12	N.C.	N.C.	N.C.	N.C.	Unallocated	-
GND	No encoder body connected.						

Cable End Diagram



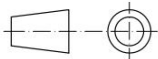
unit : mm

Dimensional drawing



D (Shaft diameter)	$\phi 8_{H7} \left(\begin{smallmatrix} 0 \\ -0.015 \end{smallmatrix} \right)$	$\phi 10_{H7} \left(\begin{smallmatrix} 0 \\ -0.018 \end{smallmatrix} \right)$
L	20	20

Unit: mm

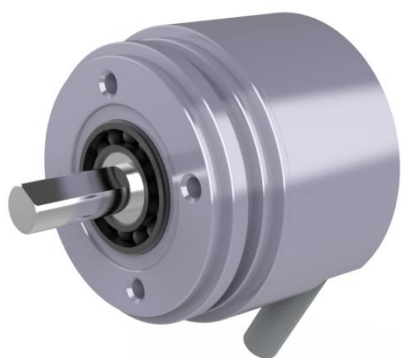


= Direction of shaft rotation for signal output

Accessories

Coupler	Dimensions	D1	D2	Model
Cross type: M series 	 Main body material: aluminum alloy	$\phi 6\text{mm}$	$\phi 8\text{mm}$	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 	 Main body material: aluminum alloy	$\phi 6\text{mm}$	$\phi 8\text{mm}$	LB-W0608
		$\phi 8\text{mm}$	$\phi 8\text{mm}$	LB-W0808
		$\phi 8\text{mm}$	$\phi 10\text{mm}$	LB-W0810

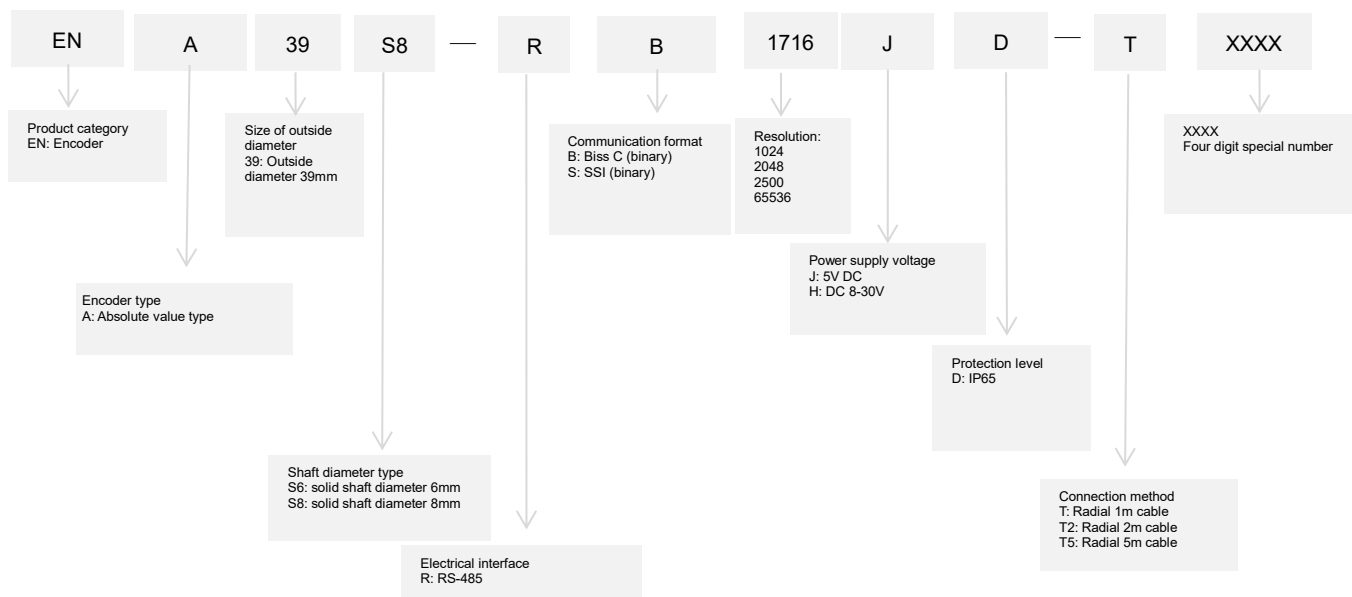
Absolute encoder ENA39S Series



Features

- ◆ External diameter $\phi 39\text{mm}$, thickness 31.5mm, shaft diameter $\phi 6\text{mm}$, $\phi 8\text{mm}$;
- ◆ Compact and sturdy structure;
- ◆ Adopt non-contact photoelectric reflection principle;
- ◆ Interface: BiSS_C or SSI;
- ◆ Accuracy: $\pm 80''$;
- ◆ Support multi-turn data recording without power failure.

Naming rules

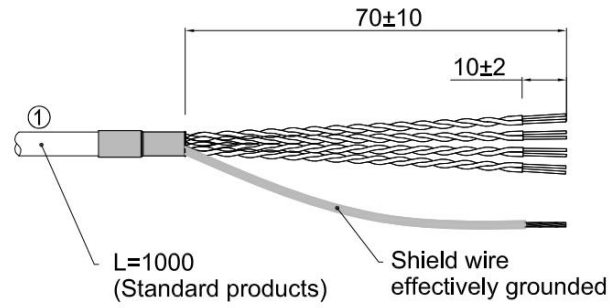






Specification parameters

Name	Parameter
Scanning principle	Photoelectric
Accuracy	±80"
Response speed	Normal action: 6000r/min
RMS position signal noise	±2 @18 Bits/r
Communication	BiSS_C (Binary)
	SSI (Binary)
Communication clock frequency	≤10 MHz (BiSS) or ≤5 MHz (SSI)
Resolution	Single turn 17 bits, multi turn 16 bits
Starting time	Typical value: 13 ms
Absolute position sampling period	≤75 ns
Allowable speed	≤32200 r/min
Electrical connection	Cable connection
Cable	Differential twisted-paired cable
Cable length	1m (Optional 1m, 2m and 5m)
Internal single-turn position update rate	15000kHz
Internal multi-turn position update rate	11.5kHz
Temperature alarm limit value	-40℃~95℃
Mechanical connection	Axial flange type or slotted fixing
Diameter of shaft	φ6mm, φ8mm (D type, solid shaft)
Shaft material	Stainless steel
Starting torque	Less than $9.8 \times 10^{-3} \text{N}\cdot\text{m}$
Inertia moment	Less than $6.5 \times 10^{-6} \text{kg}\cdot\text{m}^2$
Shaft load	Radial 30N; Axial 20N
Allowed speed	≤6000 rpm
Shell material	Aluminium alloy
Weight	About 130g
Environmental temperature	Operating: -40~95℃
	Storage: -40~+95℃
Environmental humidity	Operating and storage: 35~85%RH (Non-condensing)
Vibration	Amplitude 1.52mm, 5~55HZ, 2h for X, Y, Z direction individually
Shock	980m/s ² 11ms three times for X, Y, Z direction individually
Protection	IP50; IP65
Supply voltage	5V DC; 8-30V DC

Interface definition

Functional definition of wire colors BISS_C / SSI



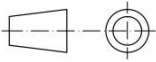
Wire color	Signal				Function	Twisted-paired cable
	BISS_C ST	BISS C MT	SSI ST	SSI MT		
Red	Up	Up	Up	Up	Power positive	
Black	Un	Un	Un	Un	Power negative	
White	SL-	SL-	DATA-	DATA-	Data signal	
White/ Black	SL+	SL+	DATA+	DATA+	Data signal	
Green	MA-	MA-	CLOCK-	CLOCK-	Clock signal	
Green/ Black	MA+	MA+	CLOCK+	CLOCK+	Clock signal	
Yellow	N.C.	Vbat	N.C.	Vbat	Backup power supply	
Yellow/ Black	N.C.	0V	N.C.	0V	0V	

Dimensional drawing



D (Shaft diameter)	$\Phi 8_{h7} \begin{matrix} 0 \\ -0.015 \end{matrix}$	$\Phi 10_{h7} \begin{matrix} 0 \\ -0.018 \end{matrix}$
L	15	20

Unit: mm



= Direction of shaft rotation for signal output

Coupler	Dimensions	D1	D2	Model
Cross type: M series 	 Main body material: aluminum alloy	$\Phi 6\text{mm}$	$\Phi 8\text{mm}$	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 	 Main body material: aluminum alloy	$\Phi 6\text{mm}$	$\Phi 8\text{mm}$	LB-W0608
		$\Phi 8\text{mm}$	$\Phi 8\text{mm}$	LB-W0808
		$\Phi 8\text{mm}$	$\Phi 10\text{mm}$	LB-W0810
Mounting cardboard	Dimensions			Model
 3 pcs as a set	 Material: stainless steel			LB-K3946

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