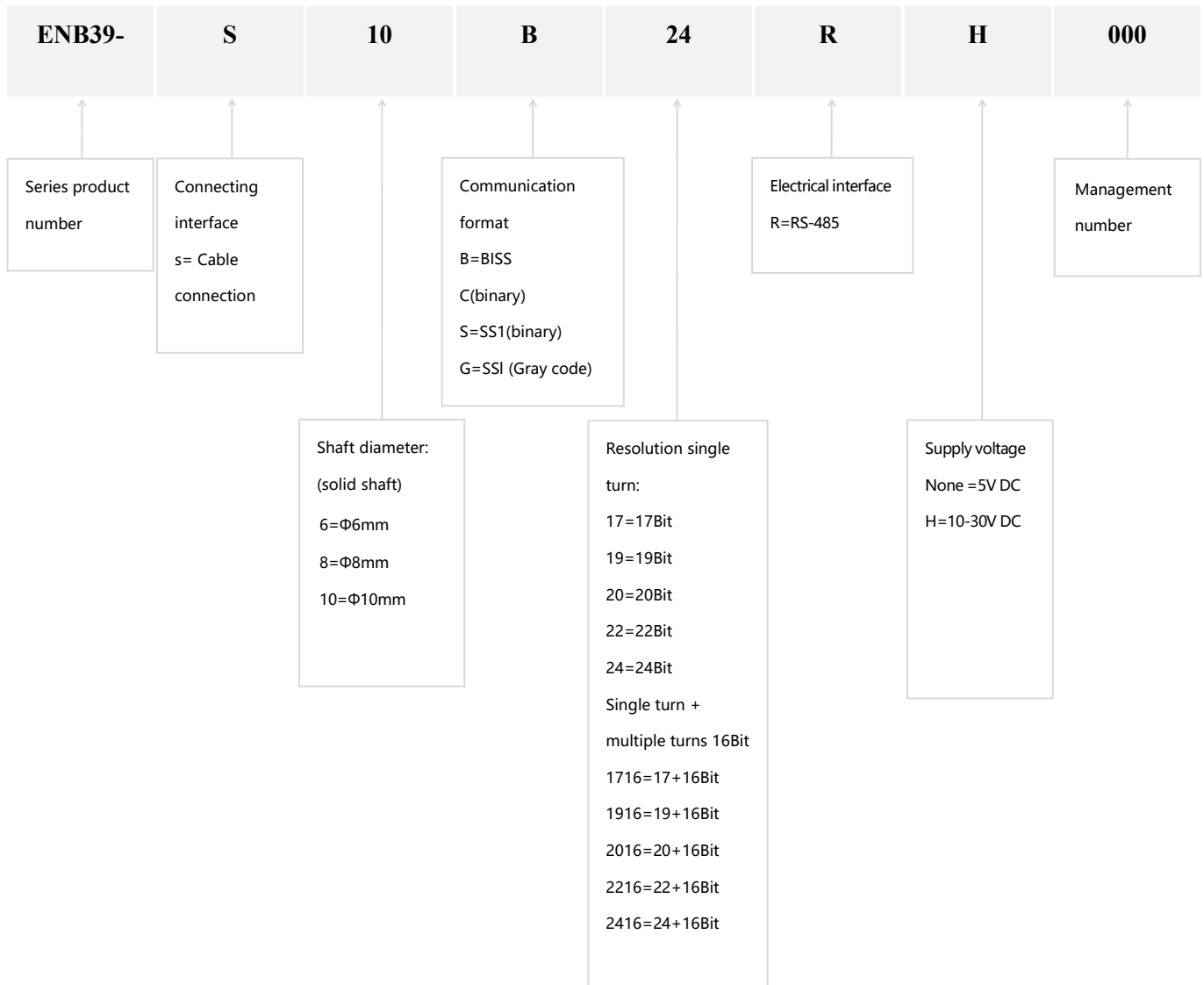


Naming convention



Absolute value encoder **ENB39** Series

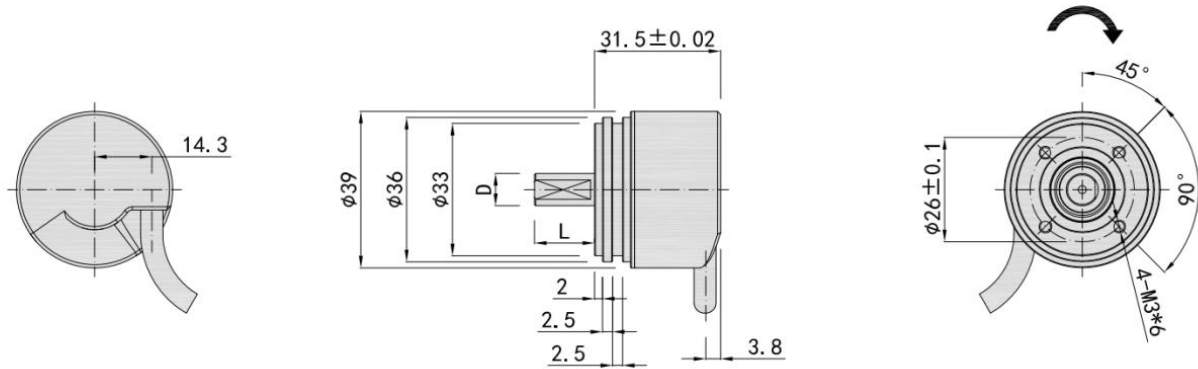

Features

- ◆ Shell diameter $\Phi 39$ mm, thickness 31.5mm, max. shaft diameter $\Phi 10$ mm
- ◆ Small and sturdy structure
- ◆ Non-contact photoelectric reflection principle is adopted
- ◆ Interface protocol BiSS_C or SSI
- ◆ Accuracy $\pm 80''$
- ◆ Single turn resolution 24Bits can be extended to a maximum of 32Bits
- ◆ Support multi-turn data recording without power failure, with a maximum of 24Bits

Technical specifications

Scan principle	Optical
Accuracy	$\pm 80''$
Response rotate speed	6000min
RMS position single noise	$\pm 2@18$ Bits/r
Communication format	BiSS C , SSI(Binary /Gray code)
Resolution	24 Bits can be expanded up to 32 Bits
Startup time	Typical value:13ms
Absolute position sampling period	≤ 75 ns
Allowable speed	≤ 32200 r/min
Electrical wiring	Cable connection
Cable	Differential twisted pair
Cable length	200mm-10000mm
Internal single turn position update rate	15000kHz
Internal multi-turn position update rate	11.5kHz
Temperature alarm limit value	$-40^{\circ}\text{C} \sim 95^{\circ}\text{C}$
Mechanical connection	Axial flange or slot fixing
Shaft bore diameter	$\Phi 6$ mm、 $\Phi 8$ mm、 $\Phi 10$ mm(D type outlet, solid shaft)
Shaft material	Stainless steel
Starting torque	Less than 9.8×10^{-3} N·m
Inertia moment	Less than 6.5×10^{-6} kg·m ²
Allowable shaft load	Radial 30N; Axial 20N
Maximum speed allowed	≤ 6000 rpm
Housing material	Aluminum alloy
Weight	About 130g
Ambient temperature	In operation: $-40 \sim +95^{\circ}\text{C}$, In storage: $-40 \sim +95^{\circ}\text{C}$
Ambient humidity	In operation and storage:35 ~ 85%RH(non-condensing)
Vibration	Amplitude1.52mm,5-55HZ,Three directions 2h each
Shock	980m/s^2 11ms X,Y,Z direction each 3 times
Protection degree	IP65

Dimensions



D	L
$\Phi 6_{h7} \begin{pmatrix} 0 \\ -0.015 \end{pmatrix}$	15
$\Phi 8_{h7} \begin{pmatrix} 0 \\ -0.015 \end{pmatrix}$	15
$\Phi 10_{h7} \begin{pmatrix} 0 \\ -0.018 \end{pmatrix}$	20

Wiring diagram

Line color	Signal name				Function
	BISS_C Single circle	BISS_C multi turn	BISS Single circle	BISS multi turn	
Red	Up	Up	Up	Up	Power supply positive
Black	Un	Un	Un	Un	Power supply 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