

Incremental Encoder



Special features :

- ▶ Special solid housing and structure design for high vibration and shock resistance
- ▶ HeavyDuty design for high shaft load
- ▶ Advanced high-reliability optical reading system, good performance in electromagnetic compatibility
- ▶ Overvoltage, overcurrent, surge protection.
- ▶ Output signals HTL or TTL
- ▶ 9-30VDC,Single power supply, polarity protection
- ▶ IP 66, available for outdoor use
- ▶ 2 years warranty

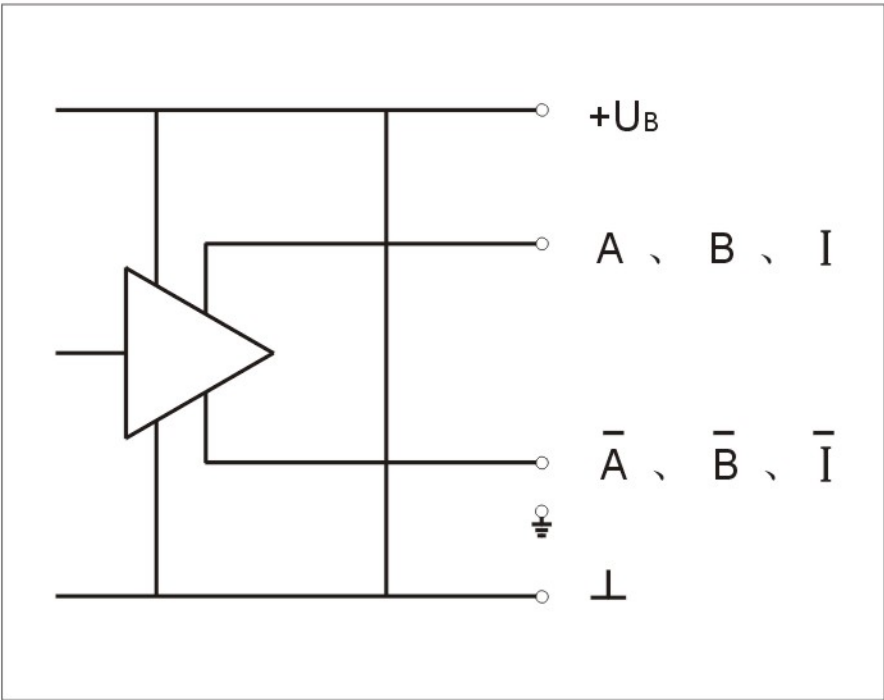
Product application:

- ▶ Applicable for displacement and velocity measurement of heavy equipments under extremely harsh environment

Electrical Specification

Cycles per turn	500 512 600 1000 1024 2000 2048
Out frequency	120KHz
Rise time	$\leq 10V/\mu s$
Supply voltage UB	+9V~+30V or +5V
Current consumption at no-load	$\approx 100mA$
Out voltage (UB=24V)	$U_L \leq 1.5V; U_H \geq U_B - 3.5V$
Maximum load current per channel	60mA/average; 200mA/peak
Mark space ratio	1:1 $\pm 20\%$
Square wave displacement	$90^\circ \pm 20\%$

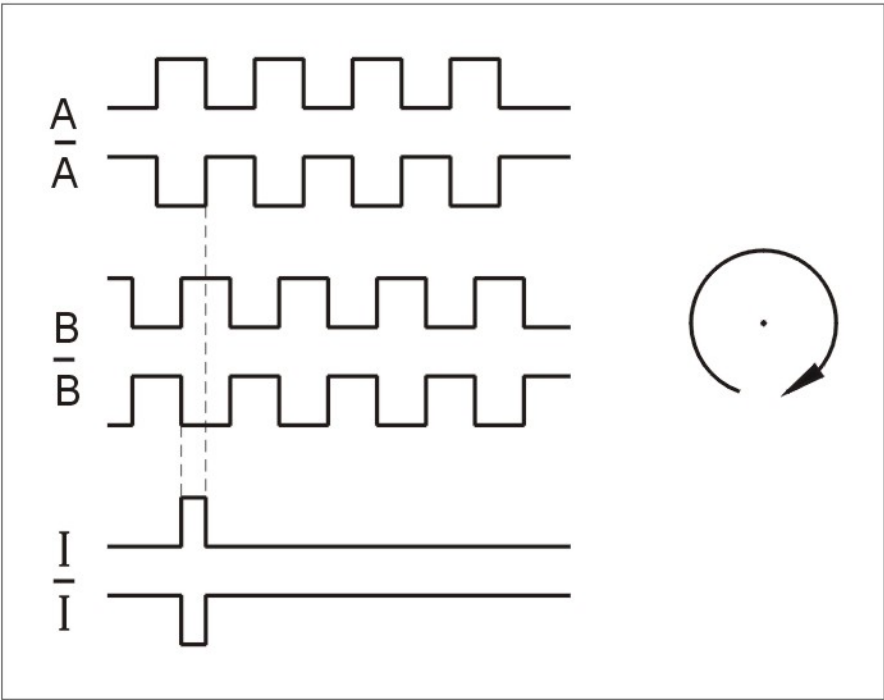
Output Circuit



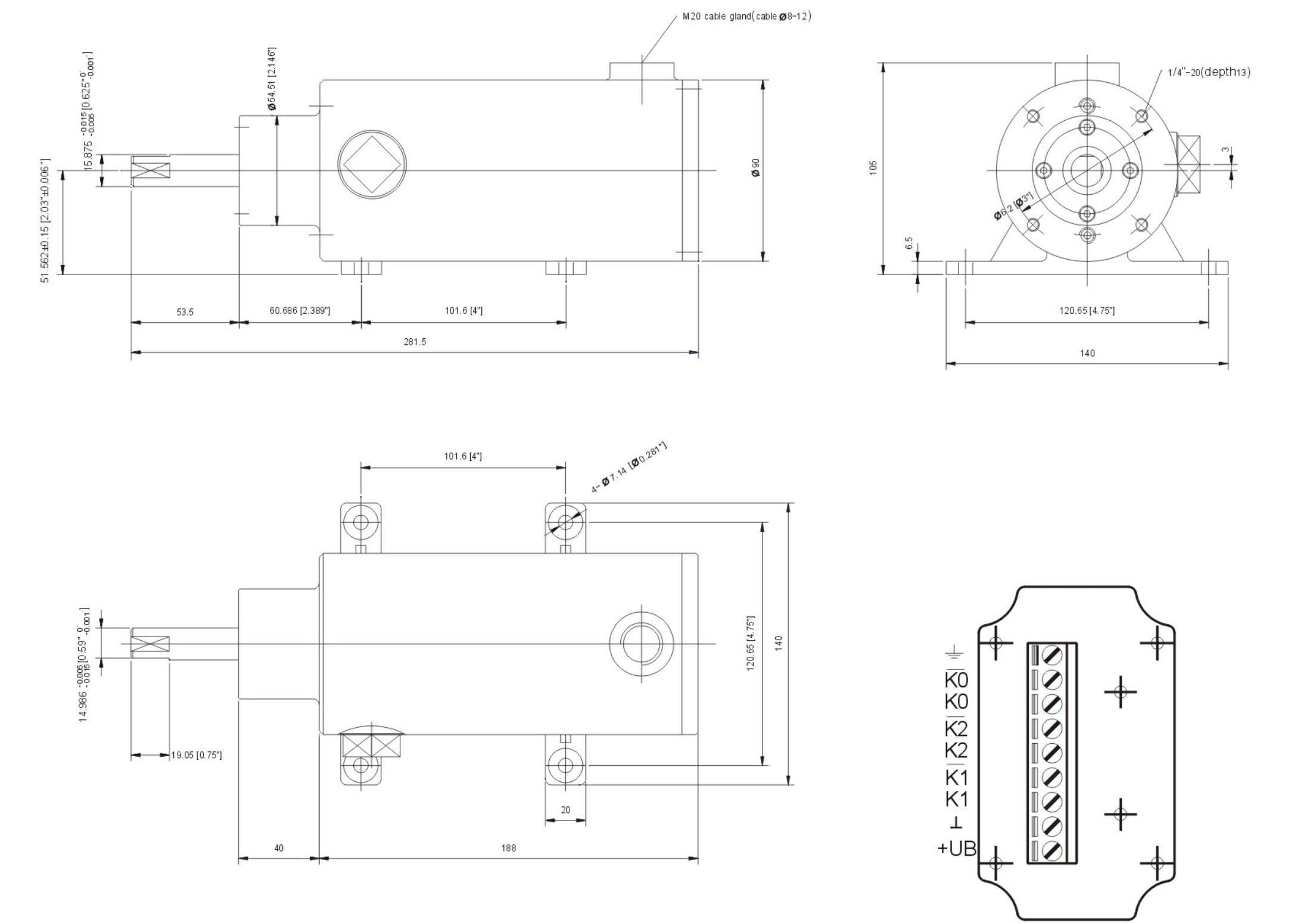
Mechanical Specification

Solid shaft diameter	$\phi 15.875mm (0.625") mm$
Moment of inertia	$\approx 900gc^m$
Speed max	$\leq 4000r/min$
Driving torque	$\approx 5Ncm$
Maximum shaft load	Axial 150N; radial 300N
Vibration resistance	$\leq 20G/10\sim 2000Hz$
Shock resistance	$\leq 200G/6ms$
Permissible encoder temperature	$-40^\circ C \sim +85^\circ C$
Protection class	IP66
Weight	$\approx 2.75Kg$

Output Signals



■ Dimensions and Connection



■ Ordering Information

CXB

15

90 / 16

1024

A

Manufacturer: CXB

Type: 15 Series Heavy-duty Incremental

Body dimension: ϕ 90mm

Shaft diameter: ϕ 15.875 mm

Remarks: Technical modifications reserved.

Not specified: HTL;
A: TTL

Cycles per turn: 500、512、600、1000、1024、
2000、2048

(Other needs contact with the manufacturer)

■ Guarantee

2 years warranty within the conditions of Normal use and maintenance.



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