

Multiturn Absolute Encoder



■ *Special features* :

- ▶ Special solid housing and structure design for high vibration and shock resistance
- ▶ No battery or capacitor required for position detection during power failure
- ▶ Immediate position detection on power up
- ▶ Overvoltage, overcurrent, surge protection, HTL
- ▶ Resolution up to 24-bit / 12-bit Singleturn (4096), 12-bit Multiturn (4096)
- ▶ IP 66, available for outdoor use
- ▶ 2 years warranty

■ *Product application:*

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

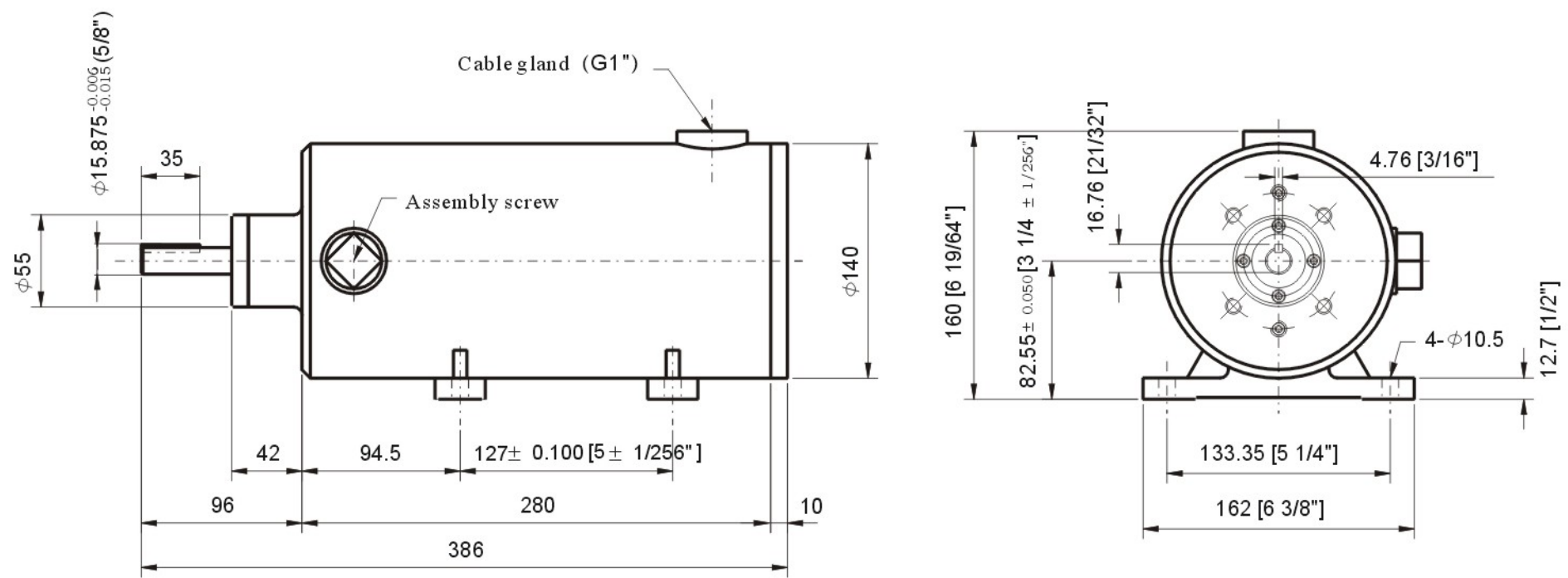
■ *Electrical Specification*

Resolution per turn	24 bits (Max)
Resolution (singleturn) Resolution (multiturn)	12 bits (Max) 12 bits (Max)
Out frequency	100KHz
Rise time	$\geq 10V/\mu s$
Supply voltage U_B	+12 ~ +24 VDC
Current consumption at no-load	< 450mA
Out voltage ($U_B=24V$)	$U_L \leq 1.5V$; $U_H \geq U_B - 3.5V$
Maximum load current per channel	100mA/average; 250mA/peak
Output code	Parallel Gray , OC

■ *Mechanical Specification*

Solid shaft diameter	$\phi 5/8"$ ($\phi 15.875mm$) Stainless steel
Moment of inertia	$\approx 500gcm^2$
Speed max	$\leq 6000r/min$
Driving torque	$\approx 0.02N \cdot m$
Maximum shaft load	Axial 200N; radial 400N
Vibration resistance	$\leq 20G/55\sim 2000Hz$
Shock resistance	$\leq 200G/6ms$
Permissible encoder temperature	$-25^\circ C \sim +80^\circ C$
Protection class	IP66
Weight	$\approx 8.5kg$

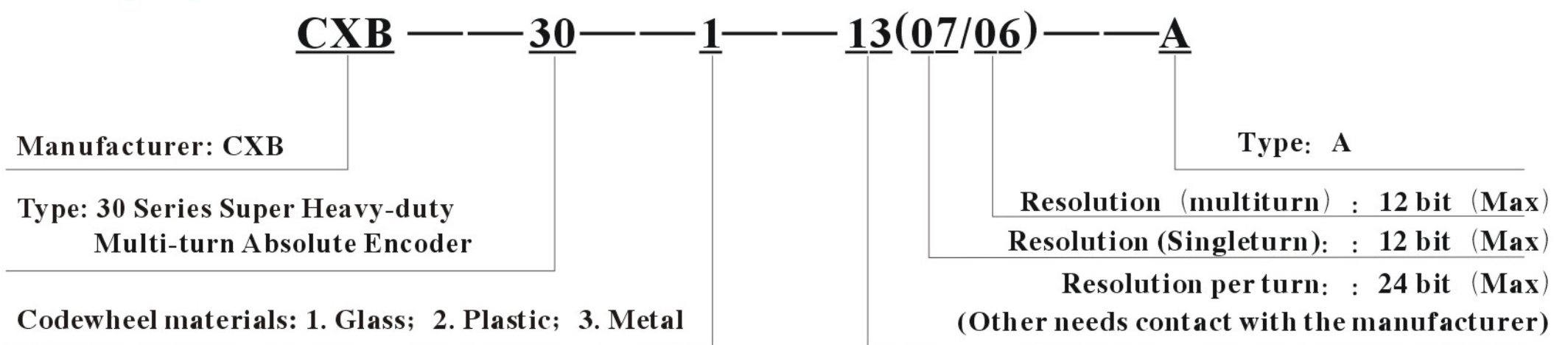
■ **Dimensions**



■ **Connection**

Terminal	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	31	32
Signal	UB	GND	SHLD	G0	G1	G2	G3	G4	G5	G6	G7	G8	G9	G10	G11	G12	DIRECTION	LATCH

■ **Ordering Information**



Remarks: Technical modifications reserved.

■ **Guarantee**

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



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