

Heavydic Series Hollow Shaft Encoder with Overspeed Switch EX100R



Description

Heavydic series heavy duty encoders EX100R are specifically designed to be used in various heavy industries and heavy-loaded shaft applications. It has perfect mechanical shock resistance, and is capable of withstanding higher axial and radial loads. It can be directly installed onto the drive shaft, with crutch arm or block-pin accessories for flexible connection. EX100P-WS series provide both incremental and speed limited switch output, which ensure not only precise control requirement but also heavy load safety.

Features

- Crank arm or block-pin accessories provide greater flexibility in connection
- Optional stainless steel hollow shaft, "C" lock ring
- · Compact hollow shaft design is both a space and cost-saver
- Heavydic design for better vibration-absorption performance
- · Overspeed warning switch to ensure safety during operation
- Reverse connection protection and short circuit protection

Mechanical Characteristics

01 (11)	
Shaft diameter (mm)	Ф25Н7/ Ф30Н7/ Ф38Н7/ Ф40Н7/ Ф45Н7
Protection class	IP66(Max)
Speed	3000(IP66)
Max load capacity of the shaft	100N axial
	200N radial
Shock resistance	50G/11ms
Vibration resistance	10G 102000HZ
Bearing life	10 ⁹ revolution
Moment of inertia	approx.15x10 kgm ²
Starting torque	<0.05Nm (without oil seal);<0.1Nm with oil seal
Body material	AL-alloy
Housing material	AL-alloy
Operating temperature	-20°C+90°C
Storage temperature	-40°C+100°C
Weight	approx.1800g

Resolution: 1024, 2048 Attention: Others on request

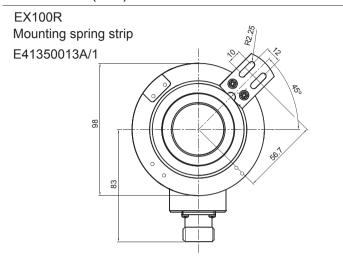
Electrical Characteristics

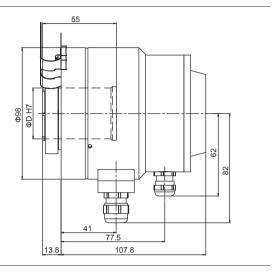
RS422	Push-pull
Max. 2048ppr	Max. 2048ppr
5±0.25or 10-30	10-30
≤80mA	≤125mA
±50mA	±80mA
Max. 800kHz	Max. 800kHz
Min. 3.4V	Min. Ub-1.8
Max. 0.4V	Max. 2.0V
Max. 200ns	Max. 1µS
Max. 200ns	Max. 1µS
	Max. 2048ppr 5±0.25or 10-30 ≤80mA ±50mA Max. 800kHz Min. 3.4V Max. 0.4V Max. 200ns

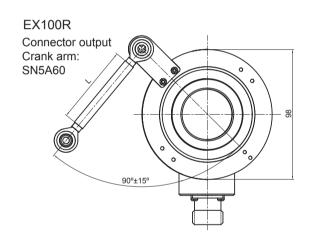


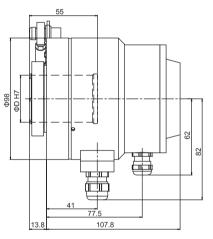
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Dimension (mm)





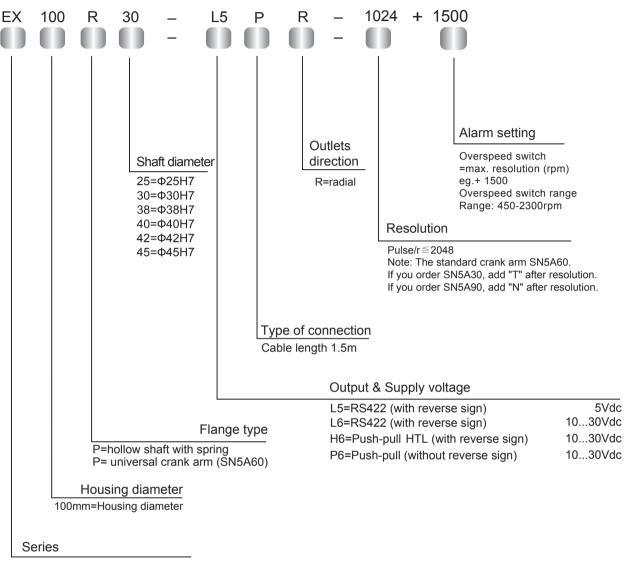






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Order Code:



EX= Incremental with overspeed switch output heavydic

Diameter	Lock ring	Screw
Ф25	E41230036	M3×8
Ф30	E41230040	M3×8
Ф38	E41230042	M3×8
Ф40	E41230038	M3×8
Ф42	E41230049	M3×8
Ф45	E41230039	M3×8