Encoder

Topydic Series Large Hollow Shaft Incremental Encoder EV150P



Description

Topydic series large hollow shaft encoders EV150P are widely used in industrial environments in which direct installation on the drive shaft for speed feedback is required. It delivers excellent performance in withstanding mechanical shock and higher axial and radial loads. Hollow shaft structure could be directly installed onto the drive shaft, and crutch arm or block-pin accessories provide greater flexibility to prolong the usability of the encoder. EV150P delivers resolution up to 2048ppr, and guaranteen both precise measurement control and safety in loading. It is the most recommended product for its high quality and affordability.

Features

- Crutch are or block-pin accessories provide the greatest flexibilty
- Resolution 2048ppr,IP64 guarantees precision and safety
- Compact hollow shaft design is both a space and cost-saver
- Metal housing for greater shock resistance, compact structure is suited for confined mounting space
- \bullet Stainless steel hollow shaft $\Phi60H7-\Phi80H7$,"C"lock ring
- Cable output or connector is flexible and easy for maintenance
 The waterproof rubber ends ensures safety

Mechanical Characteristics

• Reverse connection protection. Short circuit protection

Hollow shaft diameter(mm)	Ф60Н7 — Ф80Н7				
Protection acc. to EN 60529	IP64				
Speed	3000RPM				
Max load capacity of the shaft	100N axial				
	200N radial				
Shock resistance	50G/11ms				
Vibration resistance	10 G 10~2000Hz				
Bearing life	10 ⁹ revolution				
Moment of inertia	<15 x 10 ⁻⁶ kgm ²				
Starting torque	<0.25Nm max.				
Body material	AL-alloy				
Housing material	AL-alloy + green paint				
Operating temperature	-20~+90°C				
Storage temperature	-40~+100°C				
Weight	1800g				

Resolution: 1000, 1024, 2048

Attention: Bold part is in stock, others on request

Electrical Characteristics

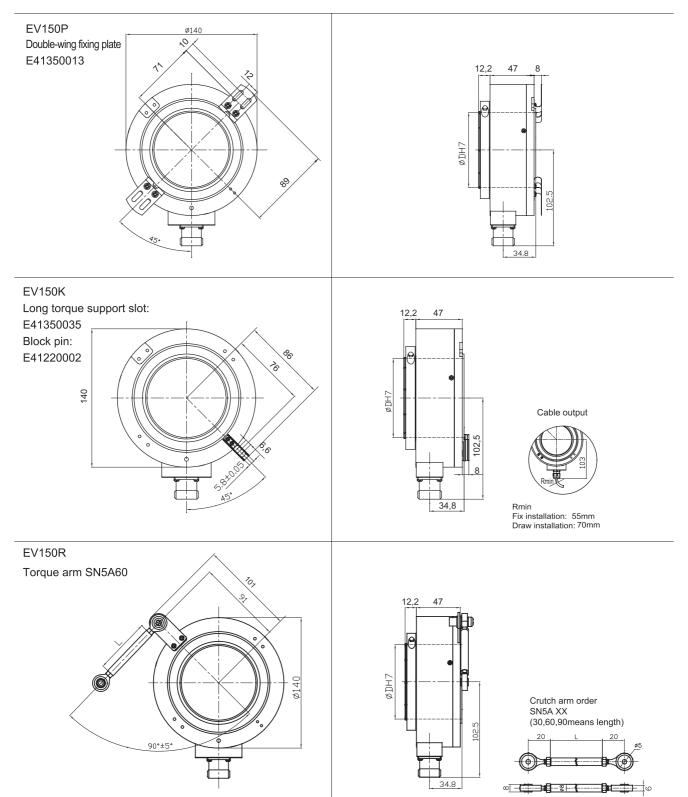
Output circuit	RS422	Push-pull	
Resolution	Max.2048ppr	Max.2048ppr	
Supply voltage(VDC)	5±0.25 or 10-30	10-30	
Power consumption (no load)	≤80mA	≤125mA	
Permissible load (channel)	±50mA	±80mA	
Pulse frequency	Max.800kHz	Max.800kHz	
Signal level high	Min.3.4V	Min.Ub-1.8	
Signal level low	Max.0.4V	Max.2.0V	
Rise timeTr	Max 200ns	Max 1µs	
Fall timeTf	Max 200ns	Max 1µs	

Terminal Assignment

Signal	0V	+U _b	Α	Ā	В	B	Z	Z	0V Sen	^{+U} b Sen	Shield
Color	WH	BN	GN	ΥE	GY	PK	BU	RD	GY/ PK	RD/ BU	÷
Pin	10	12	5	6	8	1	3	4	11	2	PH

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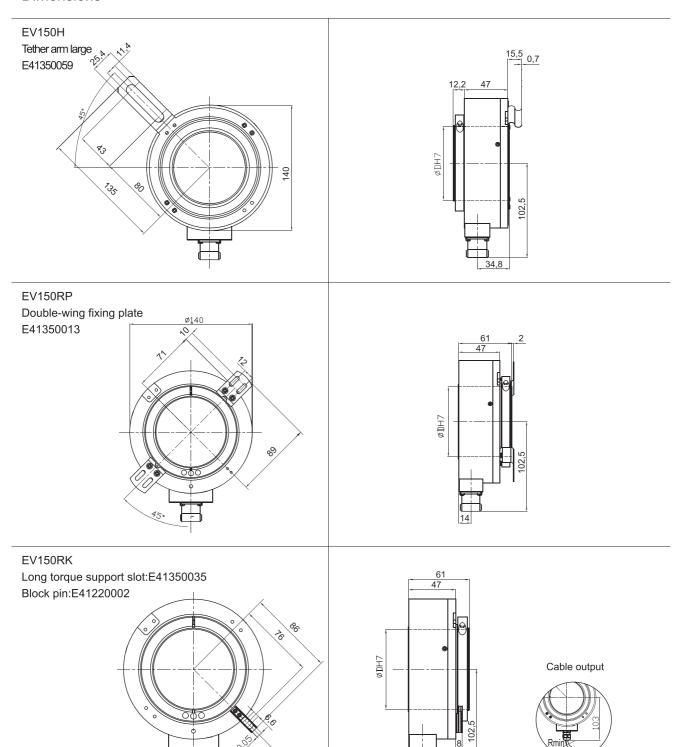
Dimensions



Encoder

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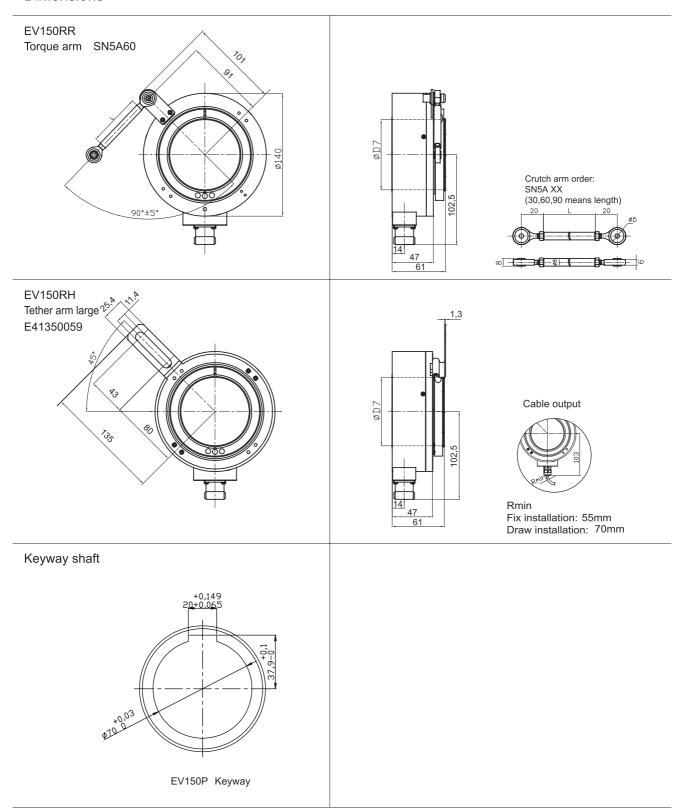
Dimensions



Fix installation: 55mm Draw installation: 70mm

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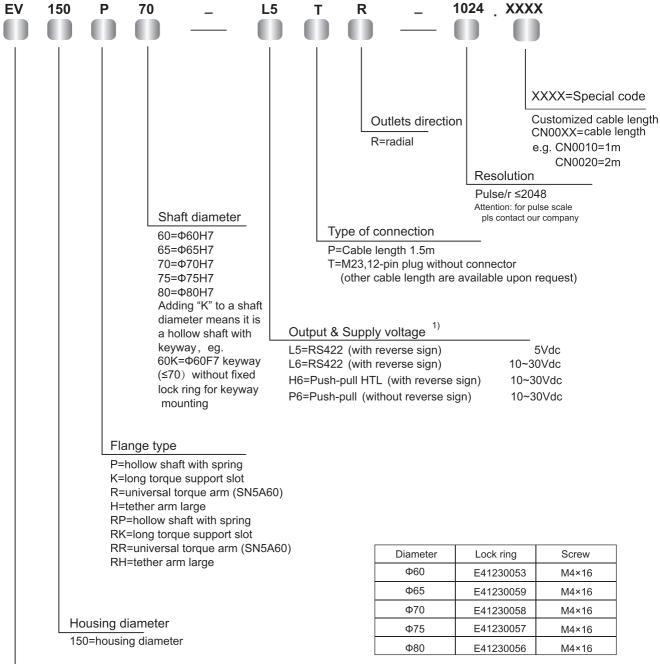
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Order Code:



EV = Topydic incremental

Series

Connector order:

matching "T" connector: TMSP1612F

When the provided power voltage is correct: Short-circuit to channel, 0V, or +UB is permitted when UB=5V; Short-circuit to channel or 0V is permitted when UB=10...30V.