

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 2048 ppr, and guarantees both precise measurement control and safety in loading. It is the most recommended product for its high quality and affordability.

Features

· Crutch arm or block-pin accessories provide the greatest flexibilty

- · Resolution 2048 ppr, 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
- Stainless steel hollow shaft Φ60H7 Φ80H7 ,"C"lock ring
- Cable output or connector is flexible and easy for maintenance The waterproof rubber ends ensures safety
- · Reverse connection protection and short circuit protection

Mechanical parameters

Hollow shaft diameter	Ф60H7 — Ф80H7 mm			
Protection class	IP64			
Speed	3000 rpm			
Max load capacity of the shaft	100 N axial 200 N radial			
Shock resistance	50G/11 ms			
Vibration resistance	10 G 10~2000 Hz			
Bearing life	10 ⁹ revolution			
Moment of inertia	<15 x 10 ⁻⁶ kgm ²			
Starting torque	<0.25 Nm max.			
Body material	AL-alloy			
Housing material	AL-alloy + green paint			
Operating temperature	-20~+90 °C			
Storage temperature	-40~+100 °C			
Relative humidity/condensation	90%, Condensation not permitted			
Weight	1800 g			

Resolution: 1000, 1024, 2048 Attention: the products with above resolutions are available from stock, others on request.

Electrical parameters

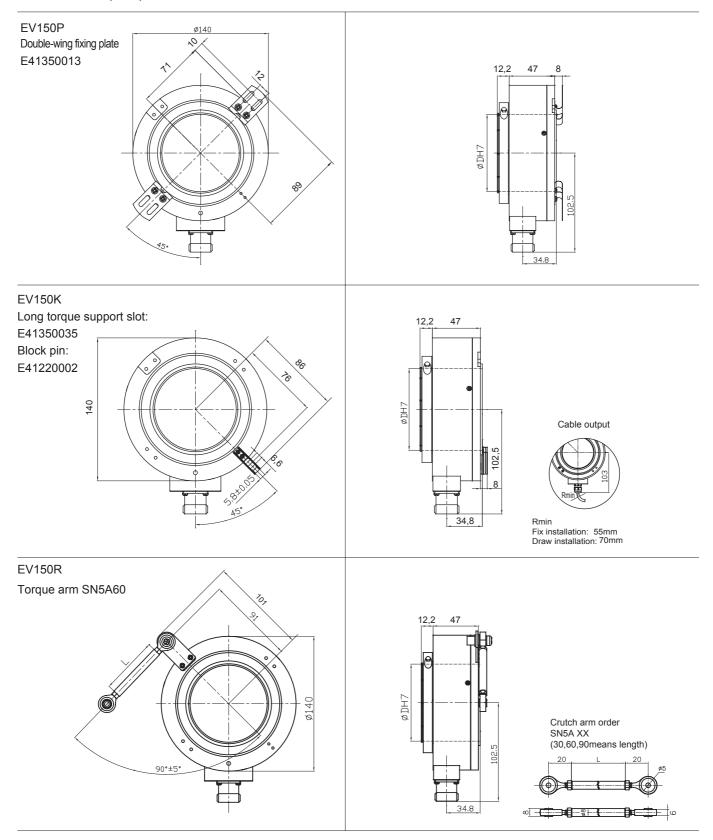
Output circuit	RS422	Push-pull
Resolution	Max.2048 ppr	Max.2048 ppr
Supply voltage	5±0.25 or 1030 VDC	1030 VDC
Power consumption (no load)	≤80 mA	≤100 mA
Permissible load (channel)	±50 mA	±30 mA
Pulse frequency	Max.800 kHz	Max.800 kHz
Signal level high	Min.3.4 V	Min.Ub-1.8
Signal level low	Max.0.4 V	Max.2.0 V
Rise timeTr	Max 200 ns	Max 1 µs
Fall timeTf	Max 200 ns	Max 1 µs

Terminal Assignment

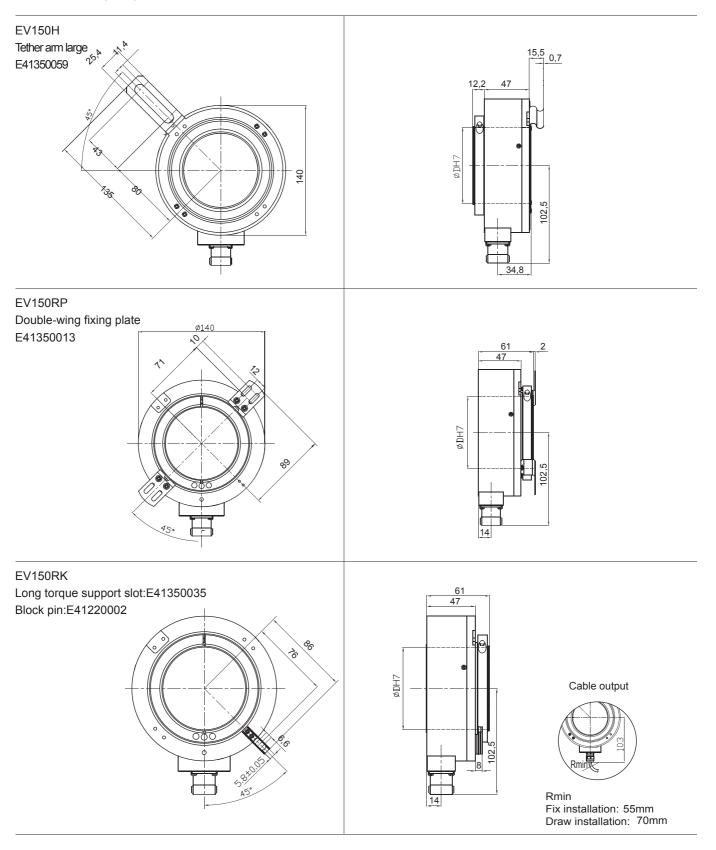
Signal	0V	+Ub	А	Ā	В	B	Z	Z	Shield
Color	WH	BN	GN	YE	GY	PK	BU	RD	÷
Pin	10	12	5	6	8	1	3	4	PH



Dimensions (mm)

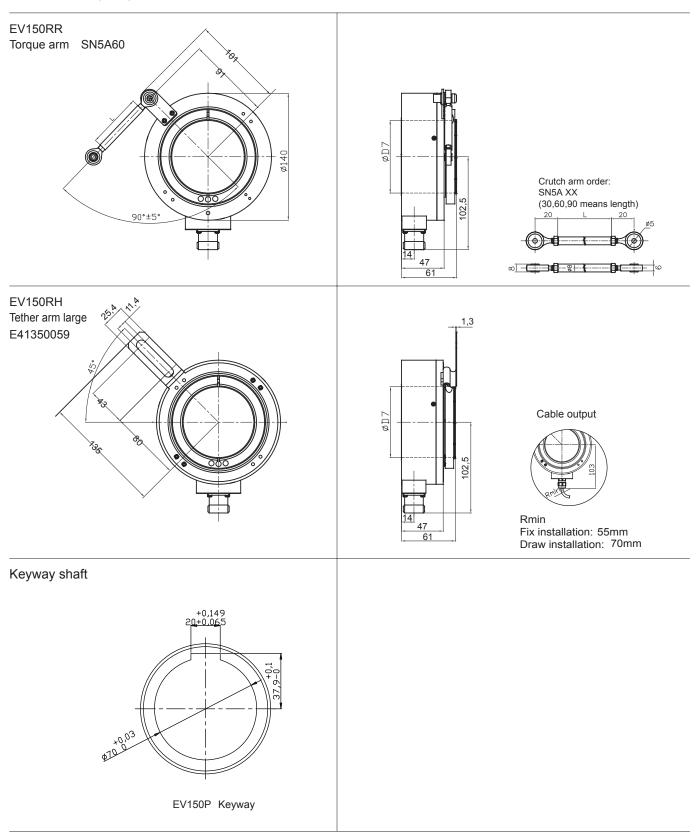


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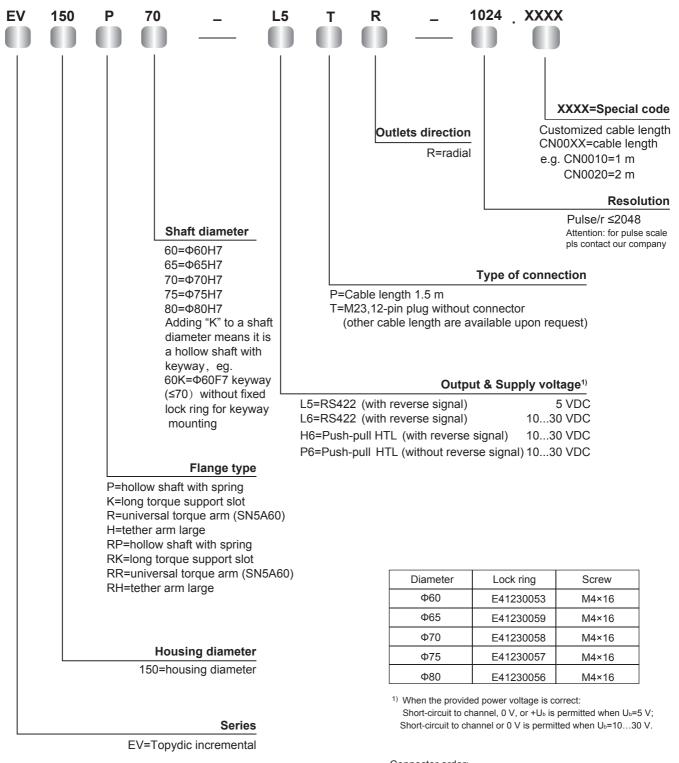




Dimensions (mm)



Order Code:



Connector order: matching "T" connector: TMSP1612F