

Topydic Series Shaft Incremental Encoder EV58A



Descriptions

Topydic series encoders EV58A are widely used in industrial environments. It delivers outstanding performance in mechanical shock resistance and is capable of withstanding higher axial and radial loads. Its flexible and variant mechanical structure & electrical circuit designs ensure perfect matches with multiply types of flanges or servo motors. They are compatible with all control computers.

eatures

- Max resolution is up to 5000pulse/r, output frequency is up to 300 kHz
- Stainless steel shaft $\Phi 6/\Phi 8/\Phi 10$, flexible coupling connection ensures encoder safety during operation
- Various types of flanges, including imperial sizes
- Metal housing for greater shock resistance; compact structure is suited for confined space mounting
- Protection class IP65
- Direct cable output or connector is more flexible and easy for maintenance

 The waterproof rubber ends ensure safety during operation
- Reverse connection protection Short circuit protection

Mechanical Characteristics

Shaft diameter (mm)	Ф6д6/Ф8д6/Ф10д6
Protection grade	IP65
Speed	6000
Max. load capacity of the shaft	60N axial
	120N radial
Shock resistance	50G/11ms
Vibration resistance	10G 10~2000HZ
Bearing life	10 ⁹ revolution
Moment of inertia	1.9χ10 ⁻⁶ kg m²
Starting torque	<0.01Nm IP65
Body material	Al-alloy
Housing material	Al-alloy
Operating temperature	-20∼+90°C
Storage temperature	-40∼+100°C
Weight	300g

Regular resolution: 360, 400, 500, 512, 600, 800, 1000, 1024, 2000, 2500, 4000, 2048, 4096, 5000

Note: other resolutions on request

Electrical Characteristics

Output circuit	RS422	Push-pull
Resolution	Max.5000ppr	Max.5000ppr
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.300kHz	Max.300kHz
Signal level high	Min.3.4V	Min. Ub-1.8
Signal level low	Max.0.4V	Max.2.0V
Rise time Tr	Max 200ns	Max 1µS
Fall time Tf	Max 200ns	Max 1µS

Encoder

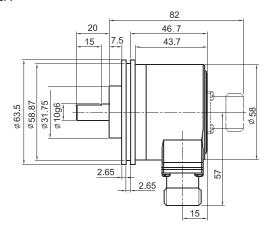
Topydic Series Shaft Incremental Encoder EV58A

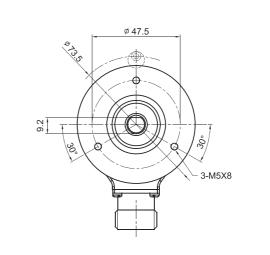
Terminal Configuration

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

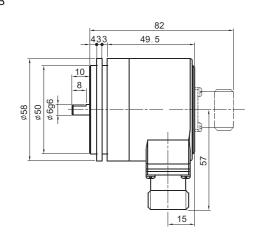
Dimensions

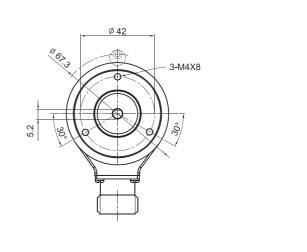
EV58A





EV58B

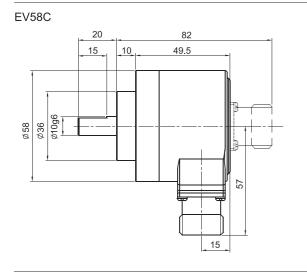


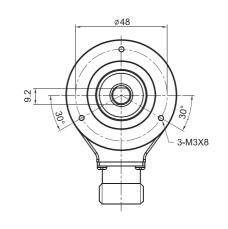


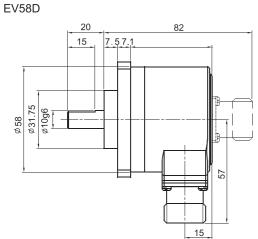


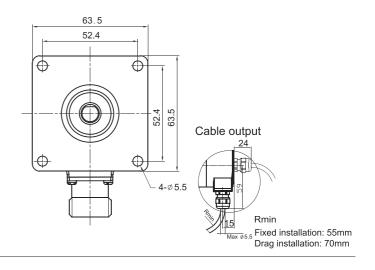
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Dimensions





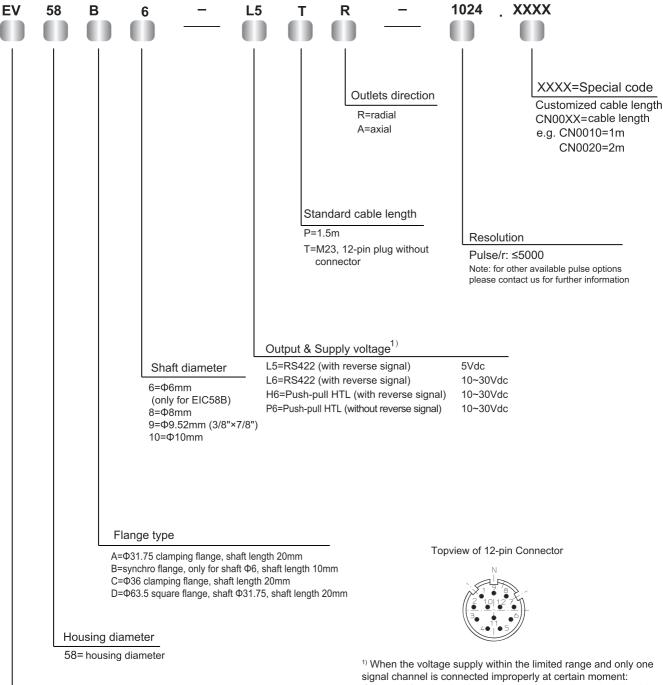




Encoder

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Order Code:



if U_R =5V, it's pXremitted to connect to signal channals, 0V or U_R ; if $U_B^{\text{D}} > 5V$, it's premitted to connect to signal channals or 0V.

Matched connector: For connection type "T": TMSP1612F

Series

EV=Topydic incremental