

Series IN100TH

Incremental Rotary Encoders



Specifications

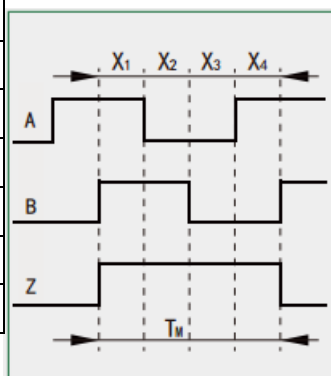
Resolution	: 120 ... 7200 ppr
External Diameter	: 100 mm
Hollow Shaft Diameter	: 20 ... 30 mm
Shaft Length	: through hollow, 37 mm
Shaft Load	: Radial $\leq 40N$, Axial $\leq 20N$
Supply Voltage	: DC 5V 8V ... 26V 10V ... 30V 12V
Output Model	: Voltage Push-pull Open collector Line driver
Output Phase	: A, B, Z A, <u>A</u> , B, <u>B</u> , Z, <u>Z</u>
Current	: 60 ... 120 mA
Slew Speed	: 4000 rpm
Frequency Response	: 0-300 kHz
Termination	: Side Entry Cable
Operating Temperature	: -20 ... +85°C
Protection Class	: IP52



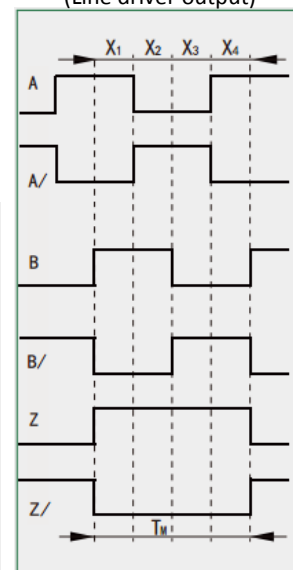
Output Waveform

Clock-wise
waveform from
shaft side

3 channel
(Voltage, Push Pull, Open
Collector Output)



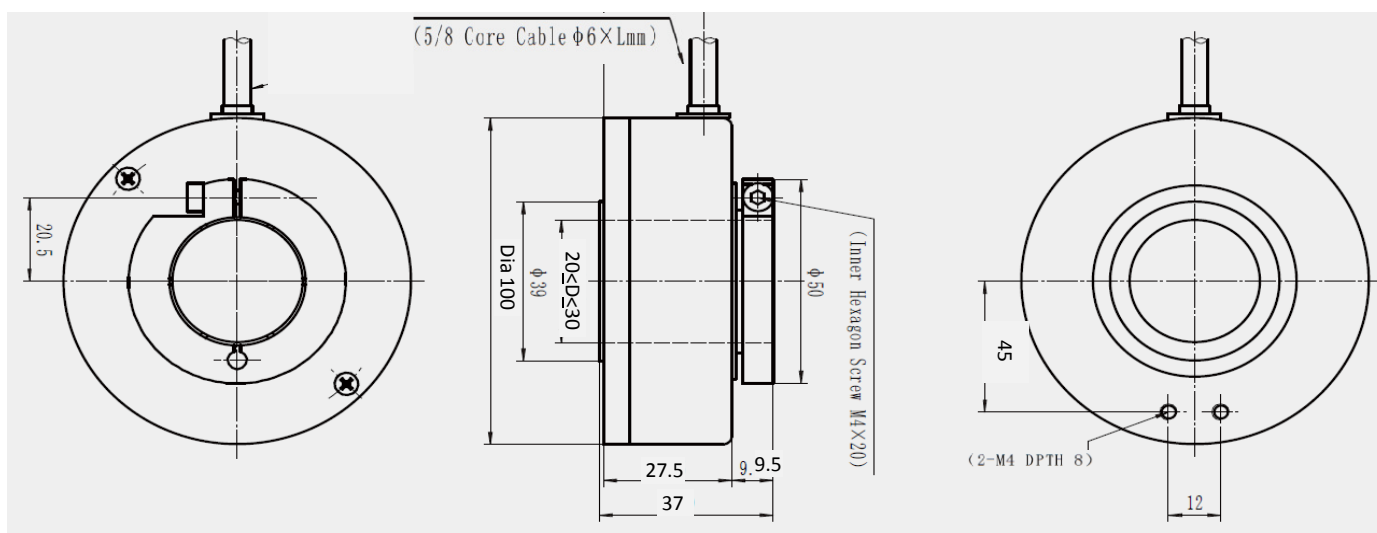
6 channel
(Line driver output)



Electrical Connection

Cable Color (pin no.)	E (Voltage)	F (Push Pull)	C (Open Coll)	L, A (Line Driver)
Red (7)	Vcc	Vcc	Vcc	Vcc
Black (2)	0 V	0 V	0 V	0 V
Green (11)	A	A	A	A
Brown (14)				<u>A</u>
White (4)	B	B	B	B
Grey (13)				<u>B</u>
Yellow (5)	Z	Z	Z	Z
Orange (10)				<u>Z</u>
Shield (8)	G	G	G	G

Dimensions



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Ordering Code

