

Series INVC48T

Servo Motor Incremental Rotary Encoders



Specifications

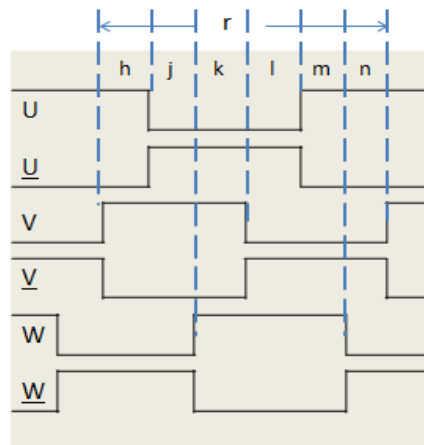
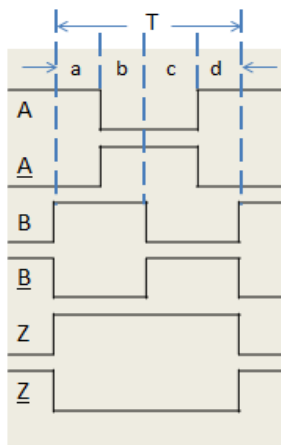
Resolution	: 1024, 2048, 2500, 5000 ppr
External Diameter	: 48 mm
Hollow Shaft Diameter	: 8 / 9 mm
Breaking Load of Shaft	: $\geq 650N$
Supply Voltage	: DC 5V
Output Model	: Line driver
Output Phase	: A, <u>A</u> , B, <u>B</u> , Z, <u>Z</u> , U, <u>U</u> , V, <u>V</u> , W, <u>W</u>
Current I_T	: 60 ... 80 mA
Max. Rotating Speed	: 15,000 rpm
Frequency Response	: 0-300 kHz
Termination	: Side Entry Cable
Operating Temperature	: -20 ... +85°C
Protection Class	: IP50



Output Waveform

Electrical Connection

Cable Color	Line Driver	Cable Color	Line Driver
Red	Vcc	Black	0 V
Gray	A	Brown	U
White / Gray	<u>A</u>	White / Brown	<u>U</u>
Green	B	Green	V
White / Green	<u>B</u>	White / Green	<u>V</u>
Yellow	Z	Orange	W
White / Yellow	<u>Z</u>	White / Orange	<u>W</u>
Shield	G		



$$a, b, c, d = \frac{T}{4} \pm \frac{T}{8}$$

$$e = T, \frac{T}{2}, \frac{T}{4}$$



Clock-wise waveform viewed from mounting side

Pole	h, j, k, l, m, n	r
4	$30 \pm 1.5 \text{ deg}$	180 deg
6	$20 \pm 1.5 \text{ deg}$	120 deg
8	$15 \pm 1.5 \text{ deg}$	90 deg

Ordering Code

1	2	3	4	5		6	7	8	9		10	11	12	13
INVC	48	T	8	A	-	G	1M	1	L	-	1024	B	M	4P
	External Diameter 48 mm			Accessory A, B, C, D		Cable Length 0.3M = Standard			Output Circuit L = Line Driver			Output Signal A = A phase signal B = A + B phase signal		
Product Type INVC = Servo Incremental			Shaft Diameter 8 / 9 mm				Supply Voltage 1 = 5 V DC						Index Signal M = Z signal	
Shaft Type V = Taper Hollow T = Straight Hollow			Connection G = Dustproof Radial Cable							Resolution 1024, 2048, 2500, 5000			No. of Poles 4P = 8 poles	

AQUARIUS AUTOMATION PVT. LTD.

Telephone : +91-77382-14410
+91-99307-75181

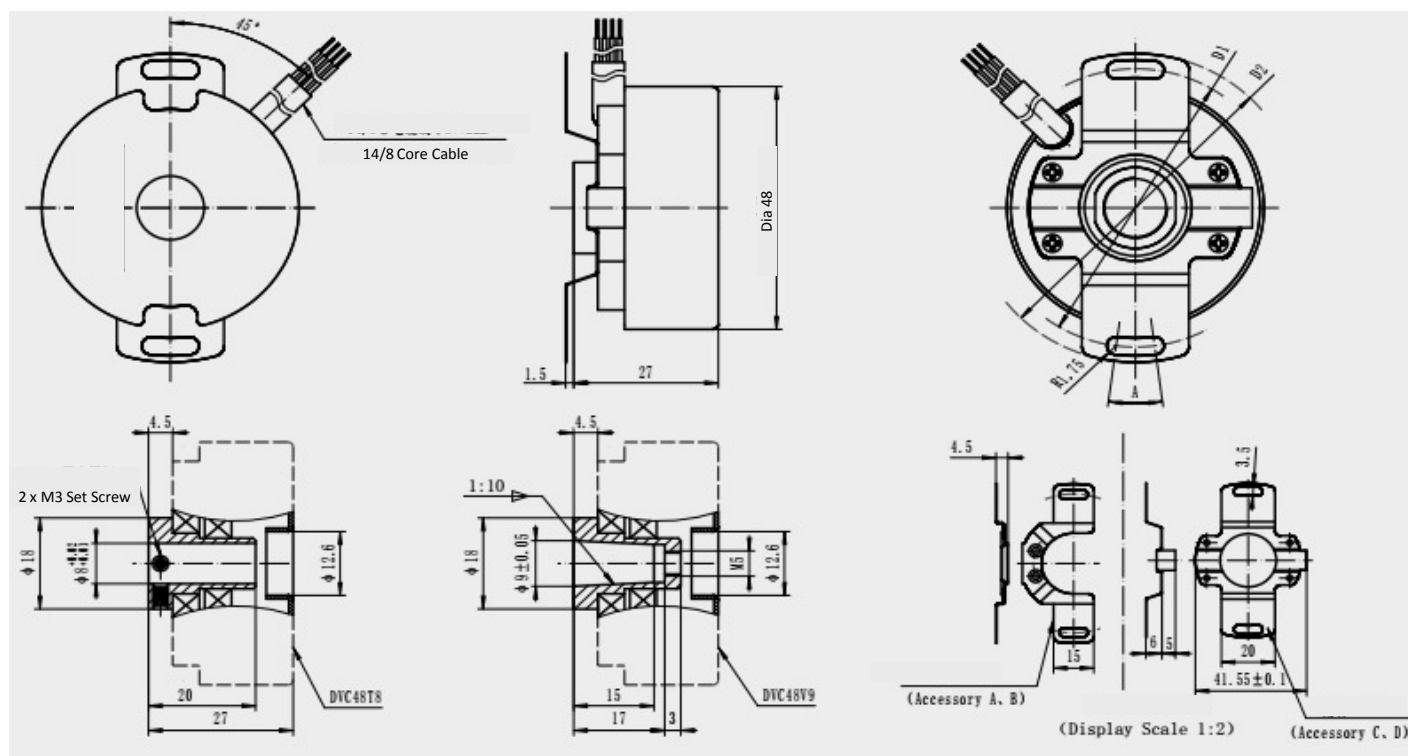
Email : mktg@aquarius-automation.co.in
Web : www.aquarius-automation.co.in



Servo Motor Incremental Rotary Encoders



Dimensions



Accessory A : $D1 = 40$, $D2 = 48$, $A = 20$ deg

Accessory B : D1 = 55, D2 = 63, A = 15 deg

Accessory A : $D1 = 40$, $D2 = 46$, $A = 15$ deg

Accessory A : $D1 = 55$, $D2 = 61$, $A = 15$ deg