

Motortronics®

ROTARY ENCODERS

FA-CODER®



OIH35

SmartAbs®



INCREMENTAL

APPLICATION

- Measuring Equipment
- Machine Tools
- Robots

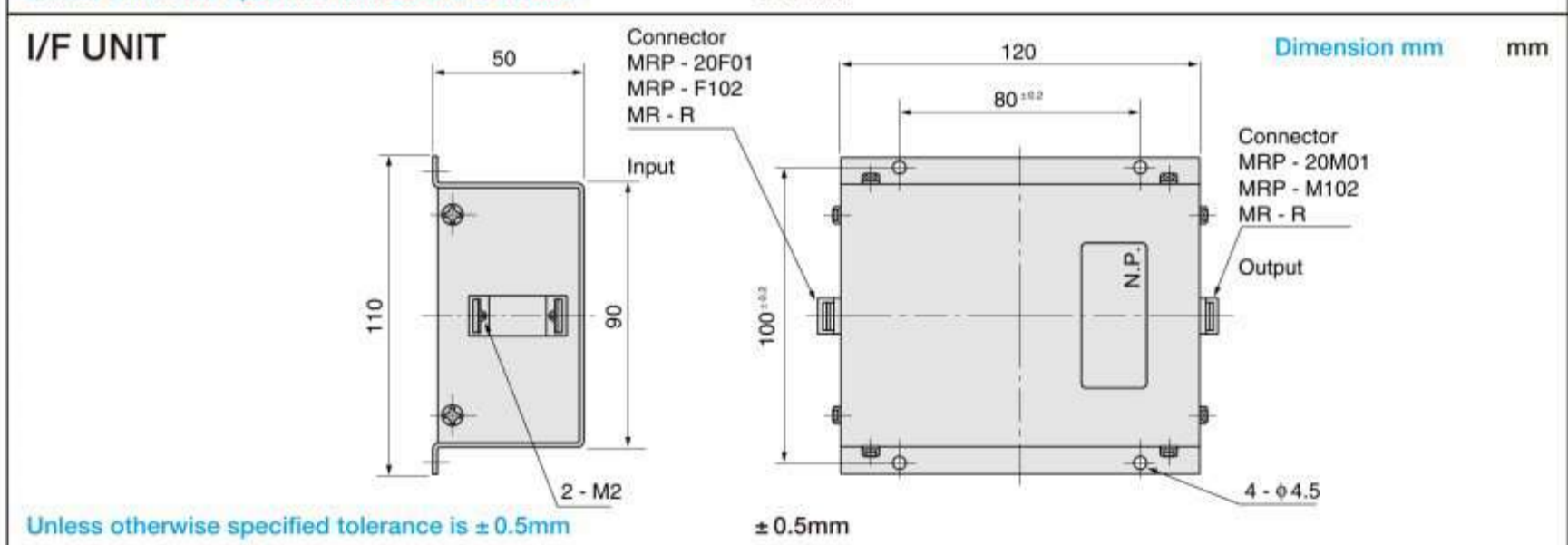
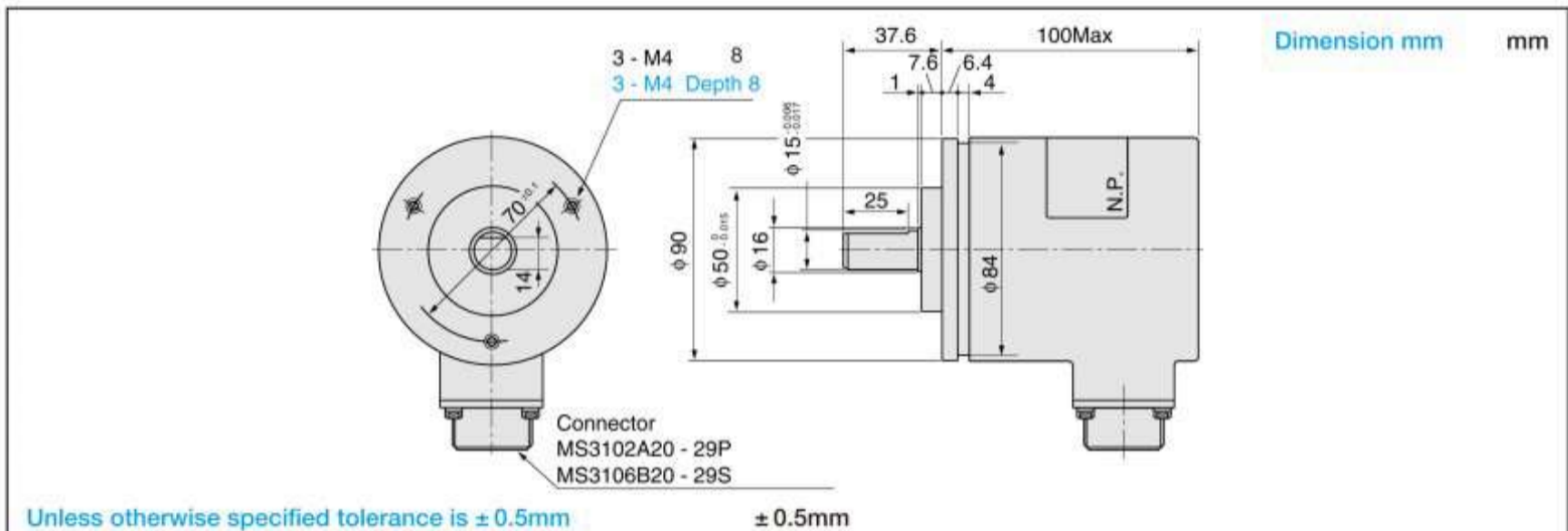
FEATURES

- Ultra-High Resolution
- Low Cost
- Transmittable for Long Distance
- Rigid model fully responding to industrial use

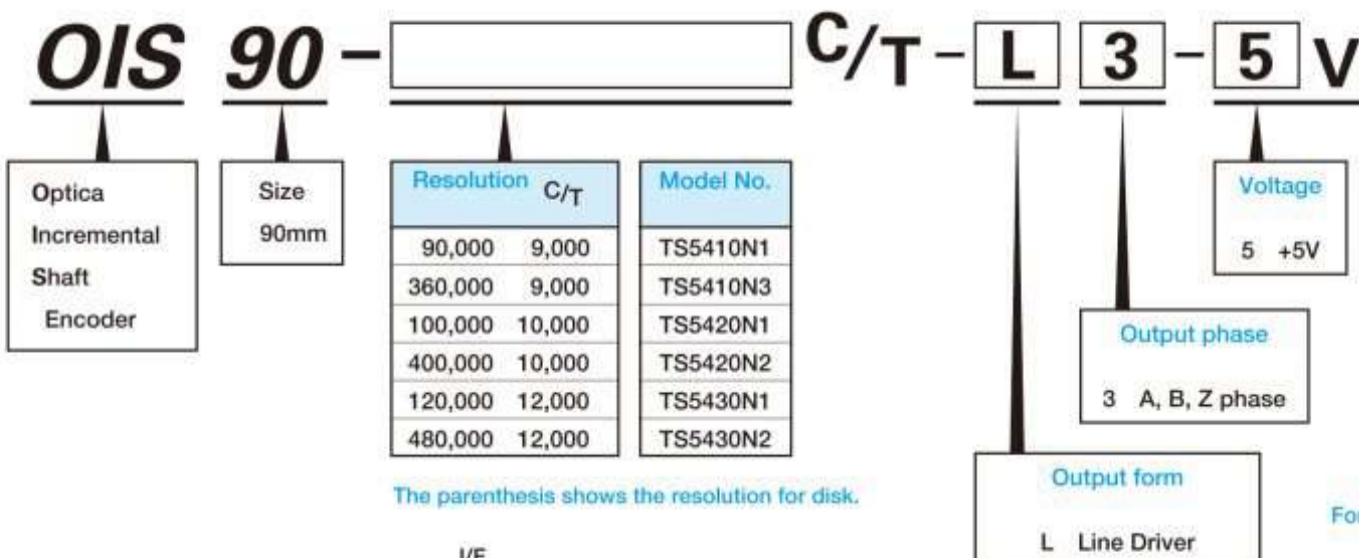


TS5410

OIS90 Series



DESIGNATE THE NAME OF FUNCTION WHEN ORDERING



SPECIFICATIONS

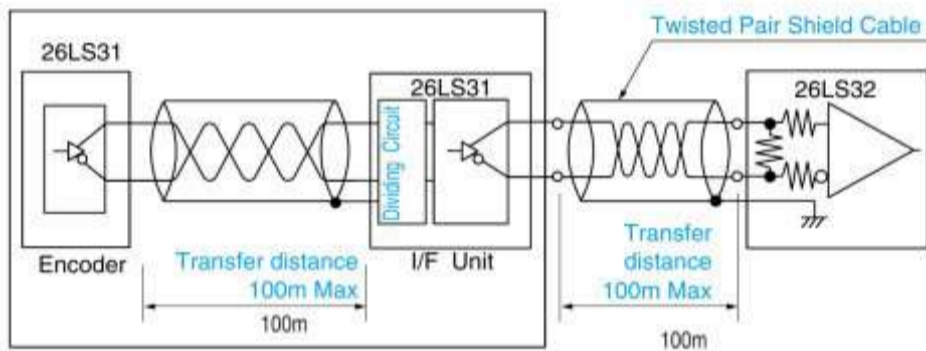
Electrical Spec.		Mechanical Spec.		
Resolution	90,000C/T, 100,000C/T, 120,000C/T 360,000C/T, 400,000C/T, 480,000C/T	Starting Torque	$9.8 \times 10^{-2} \text{ N} \cdot \text{m}$ 1kgf·cm Max	
Supply Voltage	DC + 5V ± 5%	Moment of Inertia	$3.0 \times 10^{-5} \text{ kg} \cdot \text{m}^2$ 300g·cm ² Max	
Consumption Current	500mA	Maximum Rotating Speed	$5,000 \text{ min}^{-1}$ 5,000rpm	
Output Form	Line Driver	26LS31 Source Current 20mA Max Sink Current 20mA Max	Allowable Shaft Load	Radial 98N 10kgf Max
			Axial 49N 5kgf Max	
Maximum Response Frequency	500kHz	Operating Temp. Range	-10 +75°C	
Rise time, Fall time	200nsec Max	Storage Temp. Range	-20 +85°C	
		Protective Construction	IP = 52	
		Vibration	98 m/s^2 10G	
		Shock	980 m/s^2 100G	
		Mass	3kg Max	

INCREMENTAL

CIRCUIT AT OUTPUT STAGE (EXAMPLE)

OUTPUT PHASE SHIFT

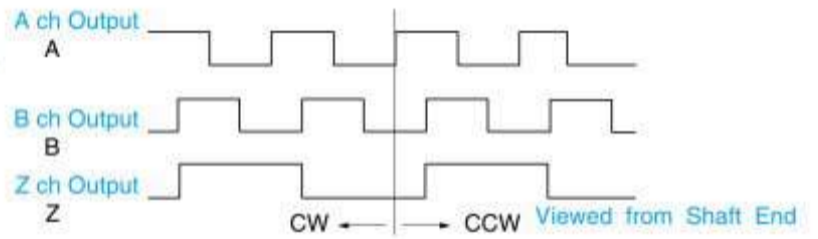
Line Driver Output



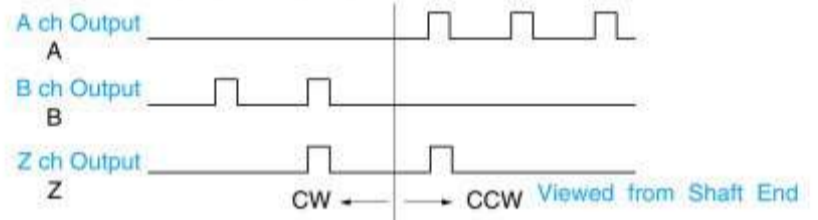
Note that transfer distance depends much on ambient condition.

Use transmission cable after verifying effects of impedance characteristics, etc.

90,000 C/T, 100,000 C/T, 120,000 C/T



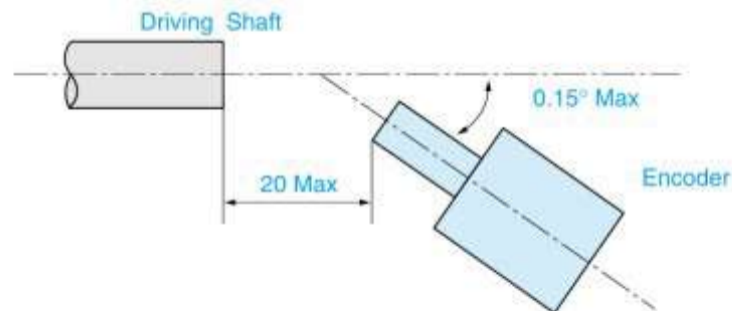
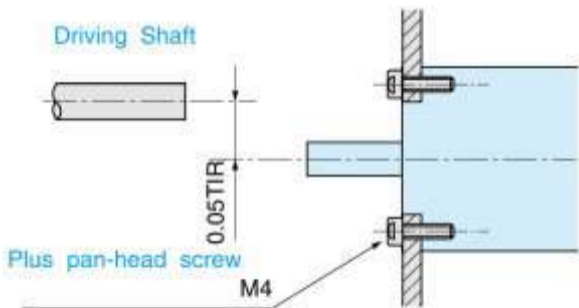
360,000 C/T, 400,000 C/T, 480,000 C/T



ATTACHING WAY (EXAMPLE)

Note that attaching alignment can be changed by the couplings when coupled to the drive shaft.

Dimension mm mm



CONNECTION TABLE

Please consult us how to connect.

ROTARY ENCODERS

FA-CODER[®]

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Digital techniques in business industry have been greatly advanced. Among these, necessity for converting analog like rotating value, shaft angle position, etc. to digital has been increased as measurement for physical value and automation for control system are advanced. Encoders, at present, have been widely used for factory automations, measurements, office automation devices, medical equipment, aviations and universal fields.

Various kinds of encoders (FA-CODER[®] as trade mark) from small to high resolution are available to meet all of the requirements. High performance encoders supported by these high disk producing techniques are available.

