

# Series 702



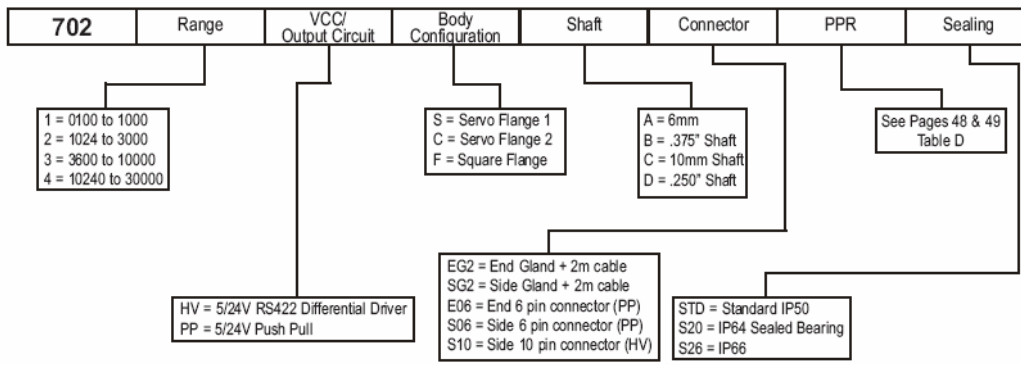
## Design Features

The Series 702 encoder is a heavy duty, extremely rugged and reliable, yet compact encoder which conforms to the industry standard 'Size 2' 50mm/2" configuration. The double shielded bearings are rated to 120 N (Max) axial and radial loading to ensure a long operating life in the harshest of applications. When fitted with a shaft seal and PG9 cable gland with flying lead, this device meets a protection level of IP65. Higher resolution options are now available to 30,000 PPR.

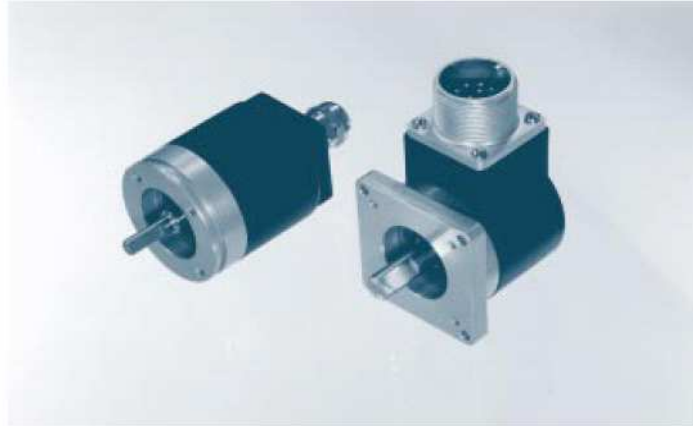
## Specifications

Input Voltage range .....	5/24V (see output circuits)	Starting torque.....	0.02 Nm
Regulation, for 5V operation .....	5%, with 2% maximum ripple	Radial loading.....	120 N operating
Current consumption .....	80mA typical	Axial loading.....	120 N operating
Output circuits .....	See Ordering Information	Moment of inertia.....	200 g/cm
Frequency response .....	200 KHz standard	Acceleration.....	10 <sup>5</sup> radians/sec <sup>2</sup>
Symmetry .....	180° electrical ±5% (9°e)	Weight.....	300 g
Quadrature Phasing .....	90° electrical ±10% (9°e)	Housing.....	Aluminum w/protective finish
Minimum edge separation .....	72° electrical	Mounting.....	Servo mount or square flange
Reference marker pulse .....	Gated (A • Z = F)	Operating temperature.....	-10°C to +70°C
Rise time .....	Less than 1 microsecond	High temperature option.....	0°C to +100°C
Accuracy (cycle to cycle) .....	±0.017° or 1 Arc/Min	Storage temperature.....	-25°C to +85°C
LED life .....	100,000 hrs typical	Humidity.....	98% RHNC
Pulses per revolution .....	See Ordering Information	Vibration.....	10 G's @ 58 to 500 Hz
Max shaft speed .....	8,000 rpm continuous	Shock.....	75 G's for 11 mSec
Shaft sizes and types .....	See Ordering Information	Protection.....	IP50 standard IP64 w/seal (S20) IP66 w/seal (S26)
Shaft tolerance .....	g6, sliding fit for H7		
Bearings .....	ABEC 3		

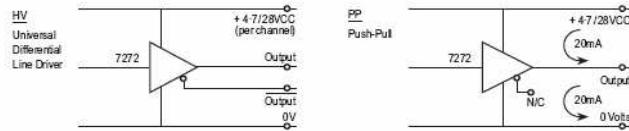
## Ordering Information



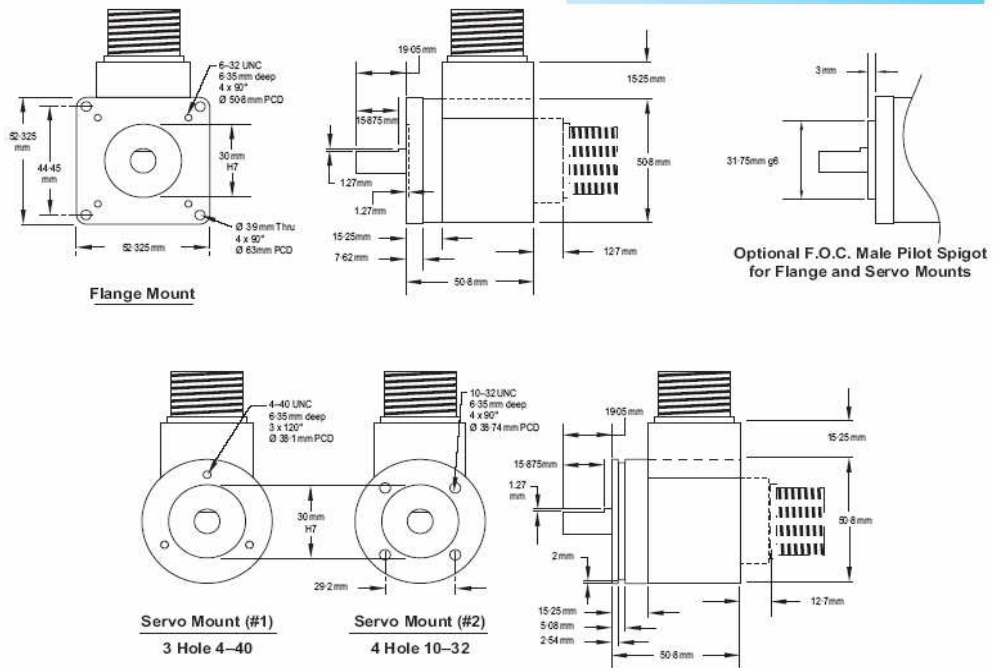
# Series 702



## Output Circuits



## Dimensions



İmaj Teknik Elektrik Elektronik San. ve Tic. Ltd. Şti.

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