

# Series 730

SERIES 730



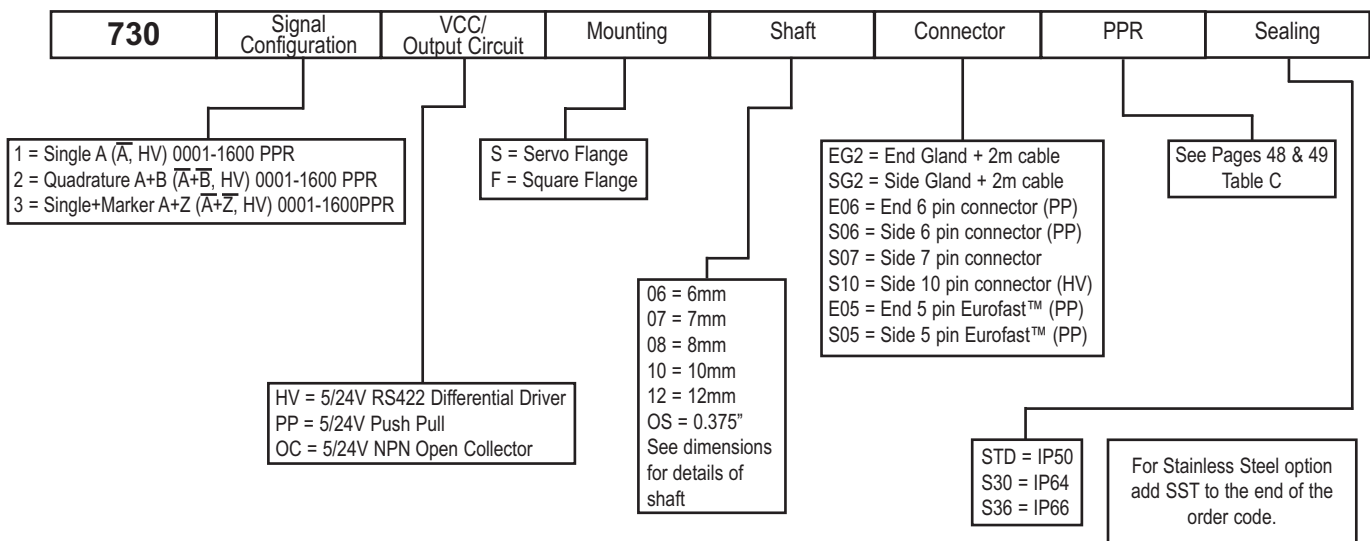
## Design Features

This very rugged size 25 encoder has been designed to suit a wide variety of industrial applications, and may be specified in various output options, from 0001 to 1600 PPR, as per Table C on pages 48 and 49. Encoder 730/1 is a single channel, 730/2 is quadrature and 730/3 is single + marker. **A stainless steel version is available at a modest surcharge. This version is designed for hostile environments or food applications. It is protected to IP66, and is configured with 2 metres of flying lead. Please call the sales office for details.**

## Specifications

Input Voltage range .....	5/24V (see output circuits)	Starting torque .....	0.02 Nm (0.02 with seal)
Regulation, for 5V operation .....	5%, with 2% maximum ripple	Radial loading .....	80 N operating
Current consumption .....	50 to 100mA typical	Axial loading .....	60 N operating
Output circuits .....	See Ordering Information	Moment of inertia .....	320 g/cm
Frequency response .....	50 KHz standard	Acceleration .....	10 <sup>5</sup> radians/sec <sup>2</sup>
Symmetry .....	180° electrical ±5% (9°e)	Weight .....	0.45 kg
Quadrature Phasing .....	90° electrical ±10% (9°e)	Housing .....	Aluminum w/protective finish
Minimum edge separation .....	72° electrical	Mounting .....	Servo flange or square flange
Reference marker pulse .....	Gated (A • Z = F) other options avail.	Operating temperature .....	-10°C to +70°C
Rise time .....	Less than 1 microsecond	Storage temperature .....	-35°C to +85°C
Accuracy (cycle to cycle) .....	±0.017° or 1 Arc/Min	Humidity .....	98% RHNC
LED life .....	100,000 hrs typical	Vibration .....	10 G's @ 58 to 500 Hz
Pulses per revolution .....	See Ordering Information	Shock .....	50 G's for 11 mSec
Max shaft speed .....	6,000 rpm continuous	Protection .....	IP50 standard
Shaft sizes and types .....	See Ordering Information		IP64 w/seal (S30)
Shaft tolerance .....	g6, sliding fit for H7		IP66 w/seal (S36)
Bearings .....	Double Sealed, ABEC 3		

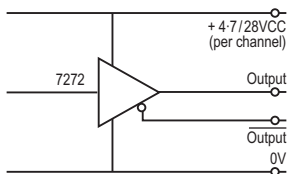
## Ordering Information



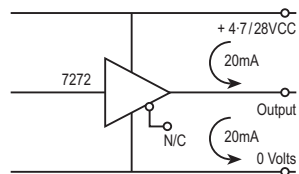


## Output Circuits

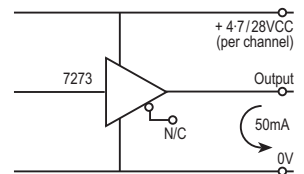
**HV**  
Universal  
Differential  
Line Driver



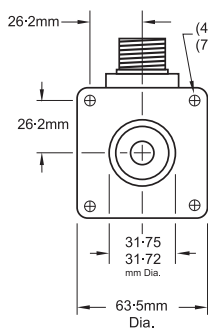
**PP**  
Push-Pull



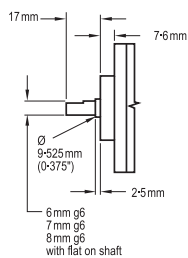
**OC**  
NPN Open  
Collector



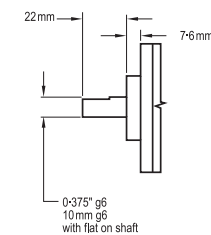
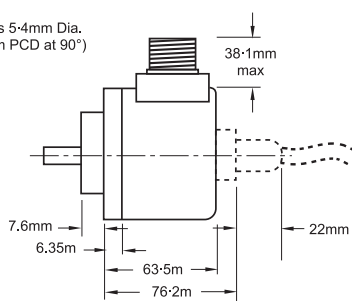
## Dimensions



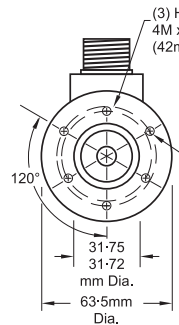
**Flange Mount**



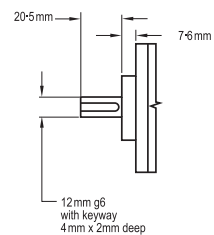
**6, 7 and 8 mm Shafts**



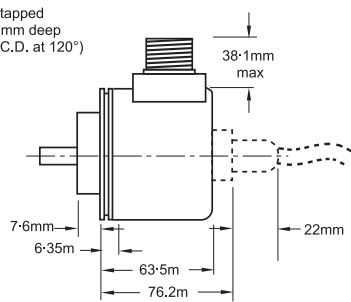
**0.375" and 10 mm Shafts**



**Servo Mount**



**12 mm Shaft**



(3) Holes tapped  
10-32 x 12.7mm deep  
(47.6mm P.C.D. at 120°)

