The Series 730 encoder is designed to suit a wide variety of industrial applications and offers various output options ranging from 0001 to 1600 PPR, as per Table C on pages 48 and 49. The encoder is available in single (730/1), quadrature (730/2), and single + marker (730/3) configurations. A stainless steel version is available at a modest surcharge and is designed for hostile environments or food applications. It is protected to IP66 and configured with 2 metres of flying lead. For more details, please call the sales office.

**Specifications**

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

**Ordering Information**

- **730**
- **Signal Configuration**: 1 = Single A (A, HV) 0001-1600 PPR
- **Output Circuit**: 2 = Quadrature A+B (A+B, HV) 0001-1600 PPR
- **Mounting**: 3 = Single+Marker A+Z (A+Z, HV) 0001-1600 PPR
- **Shaft**: S = Servo Flange
- **Connector**: F = Square Flange
- **PPR**: See Pages 48 & 49 Table C
- **Sealing**: HV = 5/24V RS422 Differential Driver
- **PP** = 5/24V Push Pull
- **OC** = 5/24V NPN Open Collector

For Stainless Steel option add SST to the end of the order code.
Series 730

Output Circuits

- **HV Universal Differential Line Driver**
  - Output
  - Dimensions
  - Push-Pull
  - +4.7V to +28V (per channel)
  - 20mA (per channel)
  - N/C
  - 20mA
  - 20mA

- **OC NPN Open Collector**
  - Output
  - Dimensions
  - +4.7V to +28V (per channel)
  - 50mA

Dimensions

- **Flange Mount**
  - 6, 7 and 8 mm Shafts
  - 0.375" and 10 mm Shafts
  - 12 mm Shaft

- **Servo Mount**
  - 6, 7 and 8 mm Shafts
  - 0.375" and 10 mm Shafts
  - 12 mm Shaft

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