

HP58 58MM HOCKEY PUCK ENCODER
NON-CONTACT MEASUREMENT
HEAVY-DUTY MAGNETIC INCREMENTAL ENCODER

THE JORAL HOCKEY PUCK ENCODER:

JORAL DEVICES INTRODUCES A NEW LINE OF ANGULAR AND POSITION SENSORS THAT IS NON-CONTACT TO THE MEASURING SURFACE. THE ENCODER IS ABLE TO COMPENSATE FOR LARGE MECHANICAL MISALIGNMENTS DUE TO WEAR, MACHINE DAMAGE OR INSTALLATION. WITH NO SHAFT, THE PROBLEMS OF ENDPLAY, DRAG, CORROSION, SIDE LOADING AND PUSH-OUT ARE GONE. (PATENT PENDING)



The encoder has a wide sensing envelope.

- **No Shaft or Bearings**
- **Non-Contact**
- **Tolerates Misalignment**
- **Reduced Shock & Vibration**
- **Fully Sealed Packaging**
- **Spike Protection**
- **Mis-wire Protection**
- **Diagnostic LEDs**
- **Wide Voltage Range**
- **Incremental or Absolute**



HP58 shown in light Delron Package
Other Connector and Package Styles available.

STANDARD SPECIFICATIONS

Mechanical

Enclosure: 58mm diameter delron
Mounting: Servo ring / 3 through mounting holes
Weight: 2oz
Maximum RPM: 6000 PRM

Electrical

Supply Voltage: 6 to 30 VDC, 60mA
Output Format: Incremental quadrature (Ch A and Ch B, with optional Marker)
Output Resolution: 10 to 2048 quadrature pulses per revolution (13 bit)
Output Driver: Push/Pull (OLP7272)
Protection: reverse polarity, spike, noise, open circuit, short circuit
Electrical Connections: 5 wire plugable terminal strip (see Table)
LED Indicators: Power, Channel and Marker (also called Index or Zero)

Environmental

Temperature: -25 to +70 degrees C
Humidity: 100% relative humidity
Potting Compound: Non-porus, water and chemical resistant, RoHS compliant
Shock & Vibration: Meets MIL-STD-202 Specs (information available on web site)
Shock—half sine, 50g, 11ms Thermal Shock— -40 to + 125 one hour dwell
Vibration—10 to 500 hz at 10g
Enclosure Rating: IP65, 67 or 68 (depending on connection style)

ORDERING

HP58 - PPR - OP

PPR: QUAD PULSES PER REV (SEE TABLE)
OP: OPTIONAL FEATURES (FACTORY)

OPTIONS AND CUSTOMS

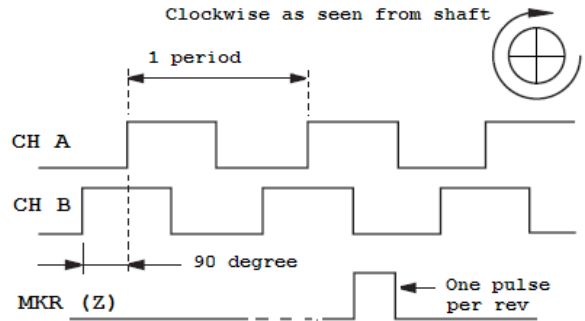
OPTIONS AND CUSTOMIZATIONS ARE AVAILABLE FOR CONNECTORS, MOUNTING, LABELING, COLOR AND SPECIAL ELECTRICAL CHARACTERISTICS.
OTHER PACKAGING STYLES: ALUMINUM, STAINLESS, FULLY ENCLOSED, CUSTOM

OUTPUT PULSES PER REVOLUTION (PPR)

The following standard resolutions are available. Consult the factory for any other resolutions. The resolution specifies the number of pulses per revolution per channel (CH A and CH B).

Decimal Resolutions: 10, 20, 25, 40, 50, 80, 100, 125, 200, 250, 400, 500

Binary Resolutions: 8, 16, 32, 64, 128, 256, 512, 1024, 2048



CONNECTIONS

Encoders come standard with 5 pin connector with M2 locking screws capable of terminating a 16 to 28 gauge wire. Connector simply plugs in for easy installation.

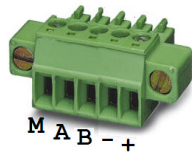
Pin 1 : +V (6 to 30 VDC)

Pin 2: Gnd

Pin 3: Channel A output

Pin 4: Channel B output

Pin 5: Marker pulse M (Index/Zero)



MAGNETS

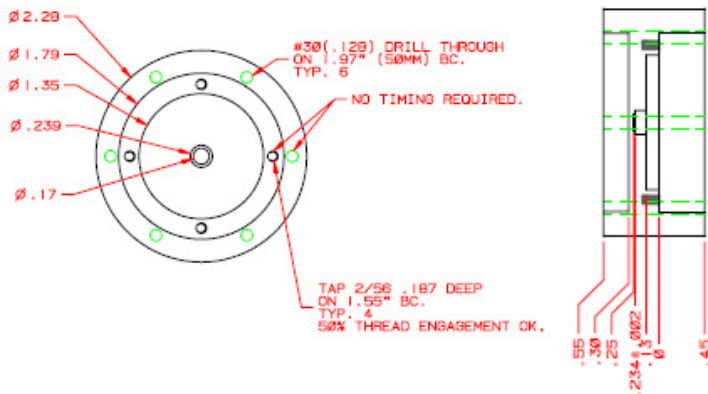
The magnet plays an important role in the overall measurement.

Joral Devices offers magnets of many shapes and sizes, depending on the application. Typical magnets would be of the disk or ring shape in the 4 to 20mm diameter range.

A small disk magnet could be mounted on the end of a shaft. A ring magnet could be slid through a shaft. A bar magnet could be rotated or moved linearly. Joral offers a Designer Kit containing an encoder and an assortment of magnets.

Consult the factory for additional information.

MECHANICAL DETAILS



The HP58 has 6 through-holes for mounting.

JORAL DEVICES ENCODERS:

JORAL OFFERS A VARIETY OF SHAFT DRIVEN INCREMENTAL AND ABSOLUTE ROTARY ENCODERS IN 30, 40, 50, AND 58 MM DIAMETERS AND VARIOUS CONFIGURATIONS.

CONTACT JORAL DEVICES OR YOUR DISTRIBUTOR FOR DETAILS.



The Joral J150 Rotary Encoder