

DESCRIPTION

The RH-P encoder, also known as a Pulse Position Indicator (PPI) or Tach, generates either 24 or 192 output pulses for each revolution of the shaft, and is typically used to measure linear movement on a conveyor system. It is typically fitted with a pair of 12" circumference measuring wheels, model MW-1-B, that allow it to ride directly on the conveyor belt. In this case 24 pulses yields 1 pulse for every 1/2", and 192 yields 1 pulse for every 1/16" of linear motion. The RH-P also includes the Enhanced Anti-Jitter feature that detects and stops generating pulses when the conveyor belt reverses direction. Pulse output continues after the RH-P returns to its original direction and to the point it first reversed direction.

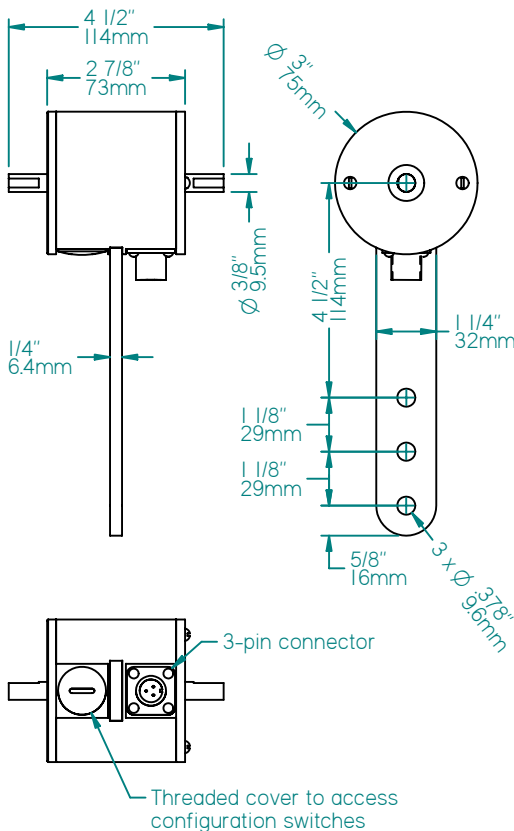
FEATURES

- User selectable 1/2" or 1/16" Resolution
- User selectable output type
- Automatically detects reverse conveyor movement
- ESD / Short Circuit / Reverse Voltage Protected

* CE marking requires Photocraft cable, and surge protection option if cable exceeds 100' (30m) or leaves the building.



DIMENSIONS



Outputs

Counts per Revolution: Selectable by setting switch 1 (see Configuration Switches). Output is "low" when power is initially applied.

Output Waveform: 50/50 squarewave

- **Pulse On-Off Ratio:** 50%±10%
- **Pulse Interval Jitter:** ±10%
- **Pulse rise time:** 2 µsec (max)
- **Pulse fall time:** 5 µsec (max)
- **Voltage (high):** Vin-2.5 vdc (min)
- **Voltage (low):** 1.5 vdc (max)

(600 rpm, Vin=24vdc, 10ma<Io<50ma, 25°C)

Enhanced Anti-jitter: The RH-P generates pulses as long as it continues to rotate in one direction. If the direction reverses then pulse output ceases until the RH-P returns to its original direction of rotation and its position before reversing. If the reverse direction exceeds 85 revolutions then the RH-P resets, assumes this is the forward direction, and begins generating pulses.

Mechanical

Weight: 1.3 lbs (600 gm)

Shaft Loading: Radial: 25 lb. (11.3 kg.) max
Axial: 10 lbs. (6.8 kg.) max

Bearing Life: 70 x 1,000,000/rpm = hours

Materials:

- Case: Aluminum, anodized
- Shaft: 303 Stainless steel
- Switch cover: Plastic

Accessories

Cable assemblies, measuring wheels, and mounting hardware are available. Call or see our website.

SPECIFICATIONS

Electrical

Supply Voltages (Vin): (specify when ordering)
5 ± 5% vdc or 8 to 30 vdc

Supply Current: 50 ma max (no load)

Output Current (Io): 50ma max source/sink

Output Circuit: (see configuration switches)

- Current sinking NPN transistor with internal 3.3K pull-up resistor
- NPN open collector (30 vdc max)
- Current sourcing PNP transistor with internal 3.3K pull-down resistor
- Push/Pull (combined sourcing/sinking)

Output Protection:

- Short Circuit
- ESD to 8KV direct and 25KV air

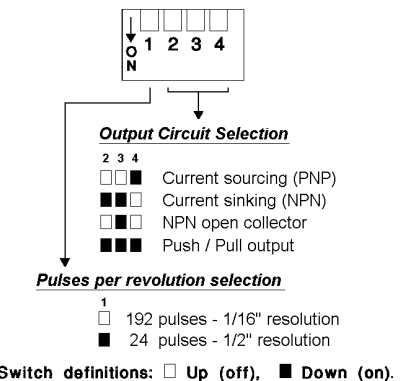
Operating Temperature: -25° to +85° C

Maximum Operating Speed: 1500 rpm

Electrical Connections

Pin No.	Function	Wire Color
A	Supply voltage	Red
B	Pulse output	White
C	Common	Black
—	Case Ground	Plain/Shield

Configuration Switches



MODEL NUMBER

Model	Program Name	Supply Voltage	Modification Number	Accessories
RH	P192	5 = 5vdc, 8-30 = 8-30vdc	M196	
	Call or see our website for information about other available programs for this encoder model.		Indicates the special features that are included. Call for details.	leave blank for no accessories. Call or see our website for more information.



PO Box 25135 813-886-4000
Tampa FL 33622-5135, USA 800-237-0946
ttco.com • photocraftencoders.com