Programmable Wheeled Encoder

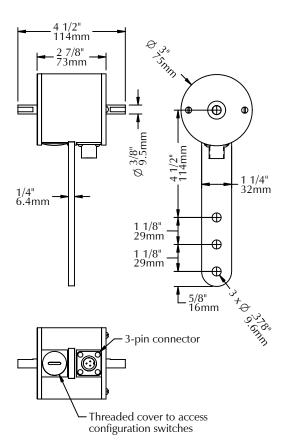
DESCRIPTION

The RH-P encoder, also known as a Pulse Position Indicator (PPI) or Tach, is typically used to measure linear movement on a conveyor system. The number of pulses per revolution is determined by setting configuration switches. It is typically fitted with a pair of 12" circumference measuring wheels, model MW-1-B, or 30cm circumference wheels, model MW-30-B, that allow it to ride directly on the conveyor belt, tracking the conveyor independent of conveyor roller diameters. The RH-P also includes the Anti-Jitter feature that eliminates extraneous pulses generated if the conveyor stops on a pulse edge.

FEATURES

- Programmable Pulses/Revolution
- ESD / Short Circuit / Reverse Voltage Protected
- Exclusive "Anti-Jitter" Circuit for Conveyor Applications
- See the model R22 for a smaller wheeled encoder
 - * CE marking requires Photocraft cable, and surge protection option if cable exceeds 100' (30m) or leaves the building.

DIMENSIONS





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

SPECIFICATIONS

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:**

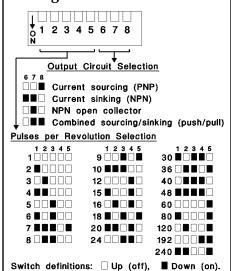
Case: Aluminum, anodizedShaft: 303 Stainless steel

— Switch cover: PlasticMaximum Operating Speed: 3,000 rpm

Electrical Connections

MS 3-pin	4-pin M12		Wire
Pin No.	Pin No.	Function	Color
A	1	Supply Voltage	Red
В	4	Output A	White
C	3	Common	Black
_	2	not used	-

Configuration Switches



Electrical

Supply Voltages (Vin): (specify when ordering) $5 \pm 5\%$ vdc or 8 to 30 vdc Supply Current: 50 ma max (no load)

Output Current: 50 ma max source/sink Operating Temperature: -25° to +85° C Output Protection:

— Short Circuit

- ESD to 8KV direct and 25KV air

Output Circuit: Selectable by setting switches 6 to 8 (see configuration switches).

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

Outputs

Pulses per Revolution: Selectable by setting switches 1 to 5 (see configuration switches). Output is "low" when initially powered.

Anti-Jitter: Increases pulse output hysteresis to ½ of a pulse width eliminating the effects of mechanical vibration and the possible dither that results in false pulses.

Output Waveform:

— Pulse On-Off Ratio: 50% ± 10%

— Pulse Interval Jitter: ±10%

— Pulse rise time: 2 msec (max)

— Pulse fall time: 5 msec (max)

- Voltage (high): Vin-2.5 vdc (min)

— Voltage (low): 1.5 vdc (max)

Accessories: See our website for cables, measuring wheels, and mounting brackets for above and under a conveyor.

MODEL NUMBER

