

RH-P600AJ2

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 counts per revolution is determined by setting configuration switches. An optional pair of 12" or 30cm circumference measuring wheels allow it to ride directly on the conveyor belt, tracking the conveyor independently of conveyor roller diameters. The RH-P also includes the Anti-jitter feature that eliminates extraneous counts generated if the conveyor stops on a square wave boundary.

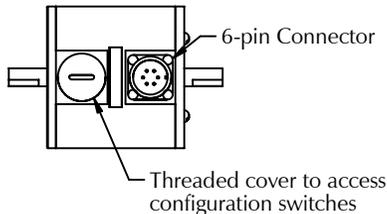
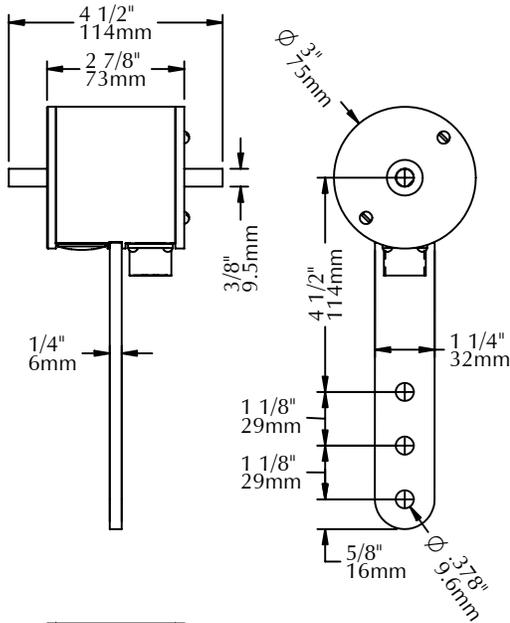
FEATURES

- Programmable Counts per Revolution
- Two Identical Outputs (not quadrature)
- Exclusive Anti-Jitter Feature for Conveyors
- ESD / Short Circuit / Reverse Voltage Protected
- 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 Tampa FL 33622-5135, USA
 813-886-4000 800-237-0946
 tco.com • photocraftencoders.com

SPECIFICATIONS

Mechanical

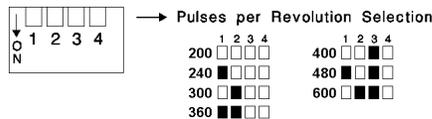
Weight: 1.3 lbs (600 gm)
Shaft Loading: Radial: 25 lb. (11.3 kg.) max
 Axial: 10 lbs. (6.8 kg.) max
Bearing Life: 70 x 1,000,000/rpm = hours
Materials:
 — Case: Aluminum, anodized
 — Shaft: 303 Stainless steel
 — Switch cover: Plastic
Maximum Operating Speed: 2,000 rpm

Electrical

Supply Voltages (+vdc): (specify when ordering)
 5 ± 5% vdc or 8 to 30 vdc
Current: 50 ma max (no load)
 100 ma max (line driver)
Operating Temperature: 0° to +70° C
Output Circuit: (specify when ordering)
 Output voltage level is approximately the same as the input voltage level.
Single Ended:
 — NPN open collector (30vdc/50mA max)
 — Push/Pull (50mA max source/sink)
Differential Line Driver:
 — 7272 line driver (output same as input volts)
 — RS422 line driver (regulated 5vdc output)

Configuration Switches

(for programmable models only)



Switch definitions:
 Up (off)
 Down (on)

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

Outputs

Counts per Revolution: Fixed at 200, 240, 300, 360, 400, 480, or 600; or selectable for the programmable model by setting the configuration switches.
 Outputs are "low" when initially powered.
Dual Outputs: 50/50 squarewave.
 Outputs A and B have identical counts per revolution with coincident rising and falling edges. They are NOT quadrature, phase shifted outputs.
Anti-jitter Outputs: Output hysteresis is increased to 1/2 of a pulse width (for example, 0.5° for 360 counts per revolution), eliminating the effects of mechanical vibration and the possible dither that results in false outputs.

Electrical Connections

Single Ended Outputs:

MS 6-pin Pin No.	4-pin M12 Pin No.	Function	Wire Color
A	3	Common	Black
B	1	+vdc	Red
D	4	Output A	White
E	2	Output B	Green
C, F	-	not used	-

Differential Line Driver Outputs:

MS 6-pin Pin No.	Function	Wire Color
A	Common	Black
B	+vdc	Red
C	Output +A	White
D	Output -A	Blue
E	Output +B	Green
F	Output -B	Brown

MODEL NUMBER

RH	AJ2			
Model	Counts per Revolution P600 = programmable (see configuration switches) or 200, 240, 300, 360, 400, 480, 600	Features: Anti-jitter and Dual Outputs	Supply Voltage: 5 = 5vdc, 8-30 = 8-30vdc	Modification Number: 6 pin MS style connector is standard. M131 = 4-pin 12mm connector Call or see our website for other modifications.
			Output Circuit: leave blank for push/pull, C=NPN open collector, DL=RS422 line driver, DH=7272 line driver	Accessories: leave blank for no accessories. Call or see our website for more information.

Example: RH-P600AJ2/8-30 - model RH, P600 programmable counts, AJ2 feature, 8-30vdc supply, push/pull output, 6-pin MS style connector