RH-P600AJQ

Programmable Wheeled Encoder

Outputs

from connector.

Anti-Jitter Outputs: Outputs A and B have

hysteresis is increased to 1/2 of a pulse width

the effects of mechanical vibration and the

possible dither that results in false outputs.

revolution. A leads B by 90° for clockwise

have the selected number of counts per

Output A generates 1200 square wave

counts per revolution. Output B generates

2400 fixed size counts per revolution: the

5microseconds for each count. Hysteresis is

increased to 21% of a revolution. That is, the

encoder generates counts as long as it rotates

in one direction. If the direction reverses then

output ceases until the encoder returns to its

position before reversing. If reverse direction

Function

Common

+vdc

Output A

Output B

not used

Function

Common

+vdc

Output +A

Output -A

Output +B

Wire

Color

Black

Red

White

Green

Wire Color

Black

Red

White

Blue

Green

exceeds 21% then the encoder resets itself.

original direction of rotation and to its

Electrical Connections

Pin No.

3

1

4

2

Differential Line Driver Outputs:

Single Ended Outputs:

MS 6-pin 4-pin M12

Pin No.

А

В

D

Ε

C.F

A B

С

D

Ε

MS 6-pin Pin No.

output is normally high and goes low for

Dual High Resolution Outputs:

(15° for 12 pulses per revolution), eliminating

Quadrature Outputs: Two outputs, A and B,

rotation when viewed from shaft end farthest

identical counts per revolution. Output

SPECIFICATIONS

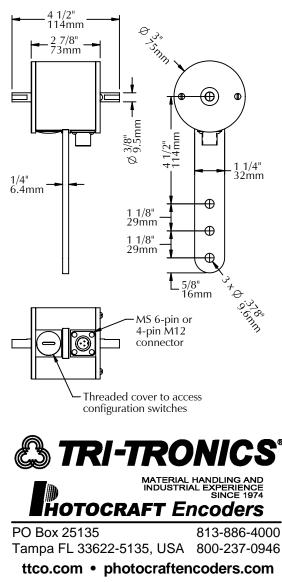
DESCRIPTION

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
- Selectable Output Type:
- Quadrature A and B outputs
- Dual Anti-Jitter outputs
- Dual high resolution outputs with Anti-Jitter
- ESD / Short Circuit / Reverse Voltage Protected
 See the model R22 for a smaller wheeled encoder
- * CE marking requires Photocraft cable, and surge protection
- CE marking requires Photocraft cable, and surge protection option if cable exceeds 100' (30m) or leaves the building.





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: 1,200 rpm

Electrical

CE^{*}

Supply Voltages (+vdc): (specify when ordering) $5 \pm 5\%$ vdc or 8 to 30 vdc

Current: 50 ma max (no load) 100 ma max (line driver)

Operating Temperature: 0° to $+70^{\circ}$ C

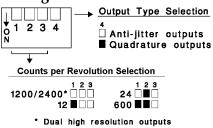
- Output Circuit: (specify when ordering)
- Output voltage level is approximately the same as the input voltage level. <u>Single Ended:</u>

— NPN open collector (30vdc/50mA max)
 — Push/Pull (50mA max source/sink)

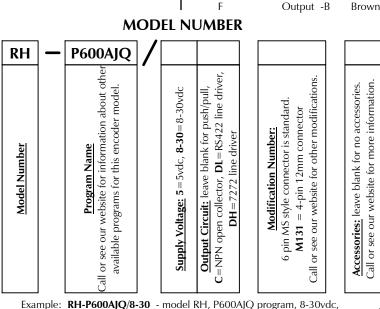
Differential Line Driver:

7272 line driver (output same as input volts)
 RS422 line driver (regulated 5vdc output)

Configuration Switches



Switch definitions: 🗌 Up (off), 🔳 Down (on)



push/pull output, 6-pin MS style connector

1606