Bidirectional Wheeled Encoder

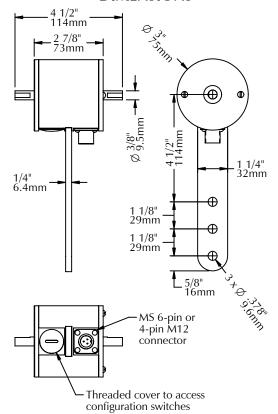
DESCRIPTION

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. A direction output indicates the shaft rotation direction, clockwise (CW) or counter-clockwise (CCW), as viewed from the shaft end farthest from the connector. 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 pulses generated if the conveyor stops on a pulse edge. CE

FEATURES

- Programmable Pulses/Revolution
- Direction of Rotation Output
- 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





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SPECIFICATIONS

Electrical

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

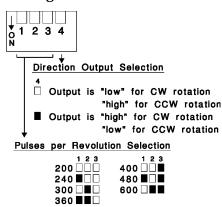
Current: 50 ma max (no load) 100 ma max (line driver)

Operating Temperature: -25° to +85° 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



Accessories See our website for

Switch definitions: ☐ Up (off), ■ Down (on)

cables, measuring wheels, and mounting brackets for above and under a conveyor.

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: $70 \times 1,000,000/\text{rpm} = \text{hours}$

Materials:

 Case: Aluminum, anodized - Shaft: 303 Stainless steel

— Switch cover: Plastic

Maximum Operating Speed: 2,000 rpm

Outputs

Pulses per Revolution: Selectable by setting switches 1 to 3 (see configuration switches), on Output A. "Low" when initially powered.

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

Direction Output: Output B indicates the direction of rotation by setting configuration switch 4, and updated at each 1/1200th of a revolution. "Low" when initially powered.

Electrical Connections

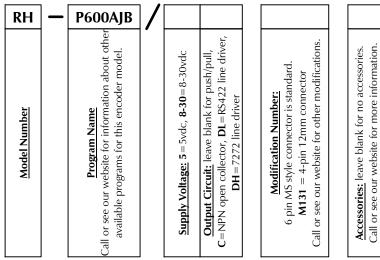
Single Ended Outputs:

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

Differential Line Driver Outputs:

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

MODEL NUMBER



Example: RH-P600AJB/8-30 - model RH, P600AJB program, 8-30vdc, push/pull output, 6-pin MS style connector