

GSDA-PU2x SERIES ENCODERS INSTALLATION AND DIMENSIONS

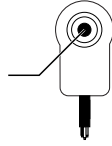
GSDA-PU2E: Indoor Hall Effect Encoders

GSDA-PU2R: Outdoor Washdown Hall Effect Encoders

INSTALLATION OF GSDA-PU2x ENCODERS

Step 1 Tap motor shaft for 10-32 screw, 1/2" deep

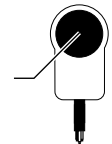
Step 2 Remove cap from screw



• No other screws are necessary, as the cord will keep the unit from rotating.

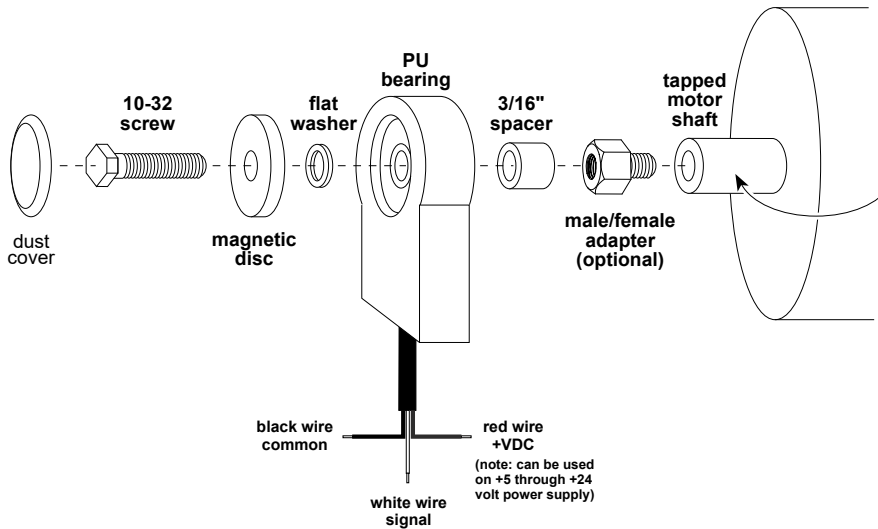
• The PU gives a high signal when the North Pole in the magnet crosses the hall-effect transistor. The signal is switched off when the South Pole crosses the hall-effect transistor. The result is a square wave whose frequency is proportional to the speed of the shaft on which the PU is mounted. The number of North/South Pole pairs directly affects the output.

Step 3 Remove black dust cover



Step 4 Install and tighten PU assembly

Step 5 Secure black cover onto housing



The following Ironhorse, MTPM motors are drilled and tapped 10-32 for use with these encoders:
 MTPM-P75-1L18 & 1M18,
 MTPM-001-1L18 & 1M18,
 MTPM-1P5-1L18 & 1M18,
 MTPM-002-1M18

Note: All other Ironhorse, MTPM, TENV motors are NOT drilled and tapped for use with encoders.

Magnetic Disc

Part List

- (1) PU sensor body with 6' cord and dust cap
- (1) Magnetic disc¹ (#2, 1PPR)
- (1) Magnetic disc¹ (#20, 10PPR)
- (1) Magnetic disc¹ (#40, 20PPR) (installed)
- (1) 3/16" spacer
- (1) male/female adapter²
- (1) Flat washer
- (1) 10-32 screw^{3,4}

Notes:

1. Magnetic discs are included with the kit and are NOT available separately.
2. Use of the threaded adapter is optional, depending on the distance between the end of the motor shaft and the fan shroud. If the supplied 10-32 screw and 3/16" spacer are insufficient in length to bridge that gap, the threaded adapter should be used in addition to the screw and spacer.
3. Torque 10-32 screw to 10-12 in-lbs.
4. Use thread locker on 10-32 threaded connection

DIMENSIONS

