

# PU SERIES INSTALLATION & DIMENSIONS

Models: PU-(X)E

Description: Indoor Duty

PU-(X)R

Description: Outdoor Duty (water resistant)

X = magnet poles (refer to chart below)

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

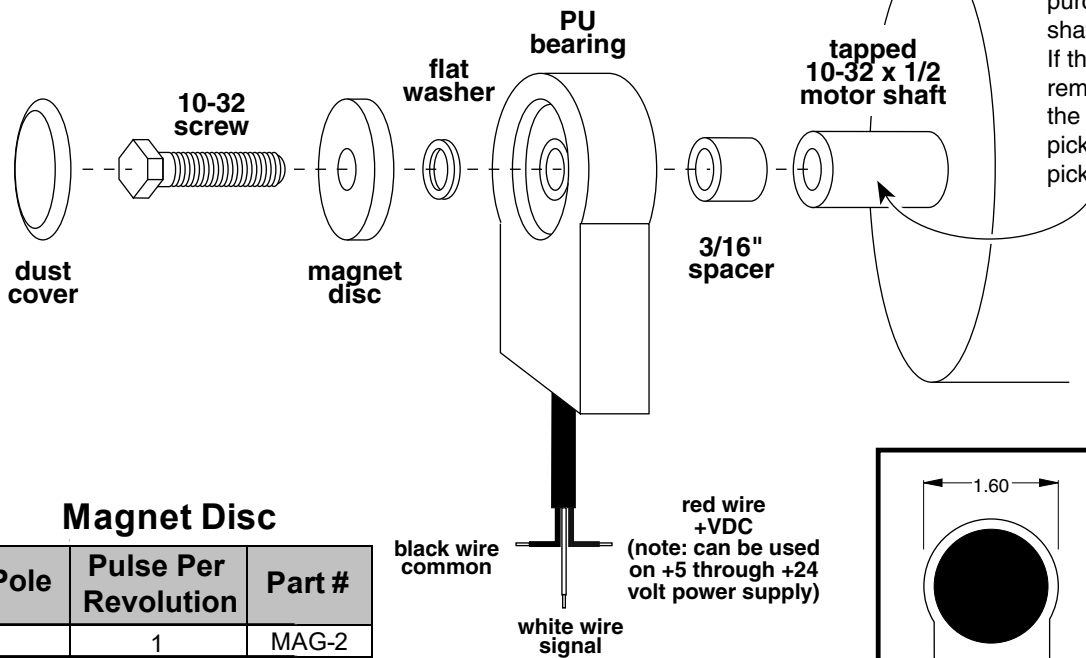
**Step 2** Remove cap from screw

**Step 3** Remove dust cover

**Step 4** Install and tighten PU assembly

**Step 5** Secure cover onto housing

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 that the PU is mounted on. The number of North/South Pole pairs directly affects the output.

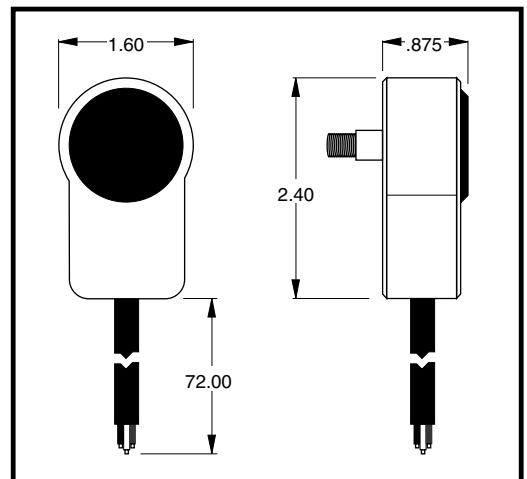


Note:

If installing the unit on a motor purchased from Dart, the motor shaft is already drilled and tapped. If the motor is fan-cooled (TENV), remove the plug in the center of the fan guard before installing the pickup. Otherwise, damage to the pickup may occur.

## Magnet Disc

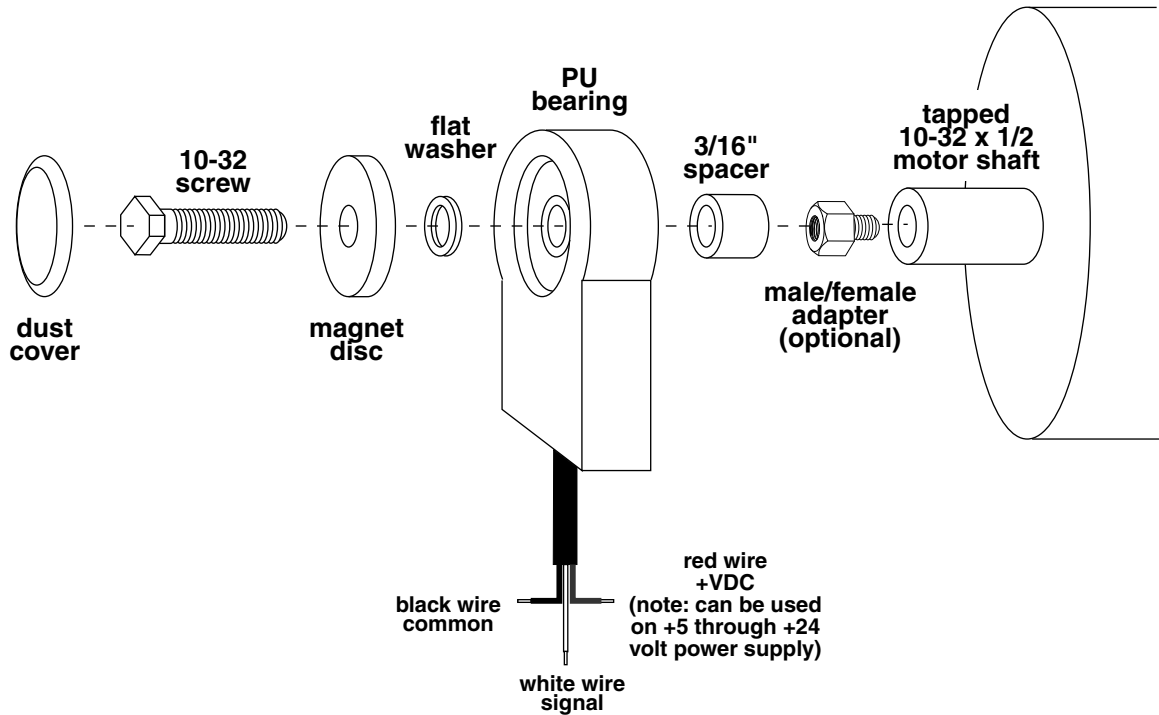
(X) Pole	Pulse Per Revolution	Part #
2	1	MAG-2
20	10	MAG-20
4	2	MAG-4
40	20	MAG-40
6	3	MAG-6
8	4	MAG-8
10	5	MAG-10
14	7	MAG-14



# PU SERIES INSTALLATION & DIMENSIONS

Models: PU-MAE  
PU-MAR

Description: Indoor Duty  
Description: Outdoor Duty (water resistant)



## PU Parts List

- (1) PU sensor body with 6' cord and dust cap
- (1) Magnetic disc<sup>1</sup> (#2, 1PPR)
- (1) Magnetic disc<sup>1</sup> (#20, 10PPR)
- (1) Magnetic disc<sup>1</sup> (#40, 20PPR) (installed)
- (1) 3/16" spacer
- (1) Male/female adapter<sup>2,3,4</sup>
- (1) flat washer
- (1) 10-32 screw<sup>3,4</sup>

### 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 10-23 in-lbs.
- 4) Use thread locker on 10-32 threaded connection and Male/Female adapter.