OPU

OPU Series Photoelectric Optical Pick-up

The OPU Series pick-up is another motor speed pick-up available from Dart. It can be used in place of the PU-E pick-up, when limited space prevents physical contact with the motor shaft. The OPU is designed for use in applications which are shielded from ambient light, especially sunlight.

The OPU is an infrared LED transciever which produces a high (+5 Volt max) signal from the reflective (light) target, and a low (0 Volt) signal from a non-reflective (dark) target surface. The result is a square wave with the frequency (number of pulses) dependent on the number of alternating light and dark surfaces on the target. The OPU can monitor not only rotating shafts but belts or virtually any moving surface.

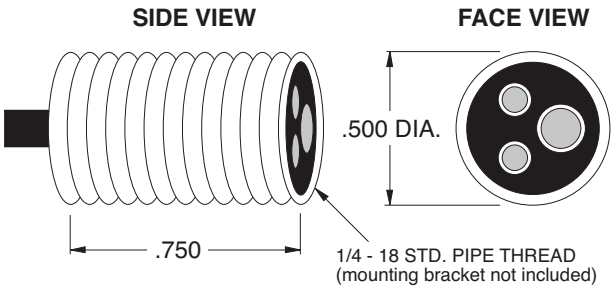
STANDARD FEATURES

- Detects shaft rotation or any other moving targets without physical contact
- Maximum speed: 600,000 pulses per minute
- Output rise and fall time: 500ns maximum
- Supply voltage +5 VDC (+6 VDC max.)
- Output is a square wave +5 VDC - 0 VDC; open collector NPN transistor capable of sinking 50mA DC maximum
- Compatible with all Dart digital speed controls and tachometers
- Shielded output cable

OPU SERIES SELECTION GUIDE

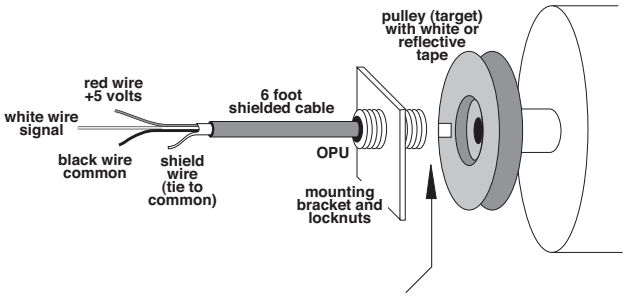
MODEL	PULSES PER REVOLUTION
OPU	Based on the number of reflective bands on target

DIMENSIONAL SPECIFICATIONS



CAUTION: The OPU cord should not be grouped with any other wires or cords. For applications with OPU wires over 6 feet long, or particularly noisy environments, may become sensitive to electrical noise.

INSTALLATION AND WIRING



IMPORTANT!

Optical pick-up face must be 1/8″ to 1″ from white marked surface or 3/8″ to 4″ from reflective marked surface!