MOTOR OPTIONS

**Faulhaber 141:1**
- 6V, 11Ω coil
- 13,400 RPM no-load motor speed
- 141:1 gearbox
- 3mm D shaft
- 2-56 face screws (0.43” spacing)
- HES164A encoder (2 line)

**Pololu metal gearmotor**
- 6V nominal
- 1.6A stall current
- ~30,000 RPM no-load motor speed
- 30, 50, 100, 150, or 298:1 gearbox
- 3mm D shaft
- M1.6-0.35 (9.00mm spacing)
- 1mm extended motor shaft (some models)

**Pololu plastic gearmotor**
- 6V nominal
- 1A stall current
- ~14,400 RPM no-load motor speed
- 120:1 gearbox
- 3mm D shaft
The Venerable Standoff

THREAD OPTIONS:
4-40 (through hole = 0.120”)
6-32 (through hole = 0.145”)

COMMON BODY LENGTHS:
1/4”, 3/8”, 1/2”, 3/4”, 1”
BATTERY HOLDER OPTIONS
Solder Perfboard

0.10 TYP

0.14

0.15 TYP

all dims in inches
IC SOCKETS
(just use them!)
HEAT SHRINK
Soldering
clean tip

clean surfaces

heat shrink on first!

heat target

tin your wires
working with stranded-core wire
working with stranded-core wire
tinning stranded-core wire
Connections
Ribbon Cable
Mini-PV