



MOTOR FEATURES

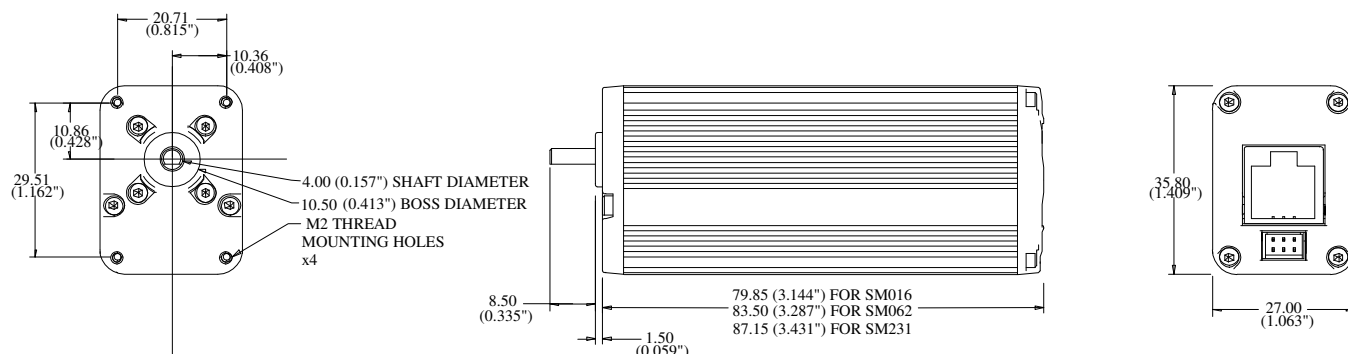
Completely integrated Motor-Gearhead-Encoder-Controller

- Miniature 4w DC motor
- All metal planetary gearhead
- Continuous revolution optical encoder
- 32-bit digital motion controller with driver
- RJ45 connector for power and communications
- 2mm header connector for limit switches
- Connects directly to SNAP 6-port control hub (SM-HUB6)

SNAP MOTOR SPECIFICATIONS

Model	Gear Ratio	Maximum Speed (output shaft)	Rated Torque (continuous)	Peak Torque (momentary)	Encoder Counts per Revolution
SM016	16.44 : 1	600 rpm	5.0 oz-in	15.0 oz-in	2236.154
SM062	61.66 : 1	160 rpm	16.8 oz-in	50.3 oz-in	8385.577
SM231	231.22 : 1	43 rpm	34.7 oz-in	104.0 oz-in	31445.913

SNAP MOTOR DIMENSIONS



MOTOR CONNECTOR (8-pin RJ45)

- | | |
|----------------------------|--------------|
| Pin 1: +12v supply, 500 ma | 5: RS485 RX- |
| 2: ADDR_IN | 6: RS485 TX- |
| 3: RS485 TX+ | 7: ADDR_OUT |
| 4: RS485 RX+ | 8: GND |

Use Standard CAT5 cables with RJ45 style connectors (10' max. length)

LIMIT SWITCH CONNECTOR (2mm 2x3 Header)

- | | | |
|---|--------------------------------|-------------------------------|
| Pin 1: HOME Switch Input (0 - 5v) - yellow | 3: LIM2 Input (0 - 5v) - green | 5: LIM1 Input (0 - 5v) - blue |
| 2: +5v output (can supply 15 ma max.) - red | 4: GND - black | 6: GND - black |

Limit Switches: Connect mechanical, NPN or opto type switch between Limit Input and GND

Home Switch: Connect mechanical, PNP or opto type switch between HOME Switch Input and +5v

Use pigtail cable assembly w/ 12" leads (p/n: SM-PT2X3) or

Mating connector: Hirose DF11-6DS-2C with crimp sockets: Hirose DF11-2428SC

WARRANTIES AND DISCLAIMERS: Snap motors are warrantied against defects in workmanship for a period of 90 days from the date of purchase. No warranties are made for merchantability or fitness for any particular purpose or use. Snap motors are not designed as fail-safe devices, and as such they should not be used in life support systems or any other systems or devices where their malfunction or erratic operation could cause injury, loss of life, or property damage.