

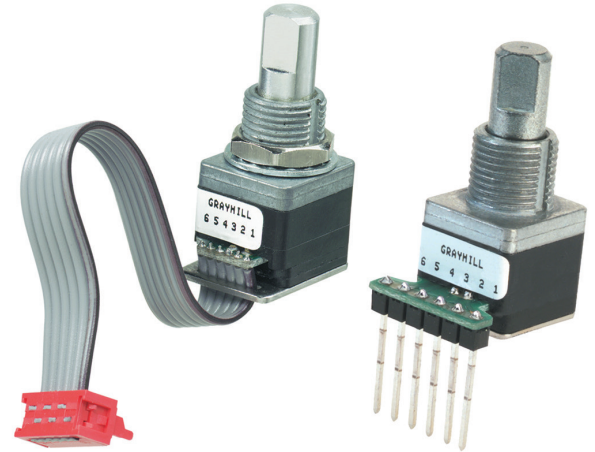
SERIES 62A, V, D 1/2" Package

FEATURES

- Low Cost
- Long Life
- Available in 3.3 or 5.0 Vdc Operating Voltages
- High Torque Version to Emphasize Rotational Feel
- Economical Size
- Optically Coupled for More than a Million Cycles
- Optional Integral Pushbutton
- Compatible with CMOS, TTL and HCMOS Logic Levels
- Available in 12, 16, 20, 24 and 32 Detent Positions (Non-detent also available)
- Choice of Cable Lengths and Terminations

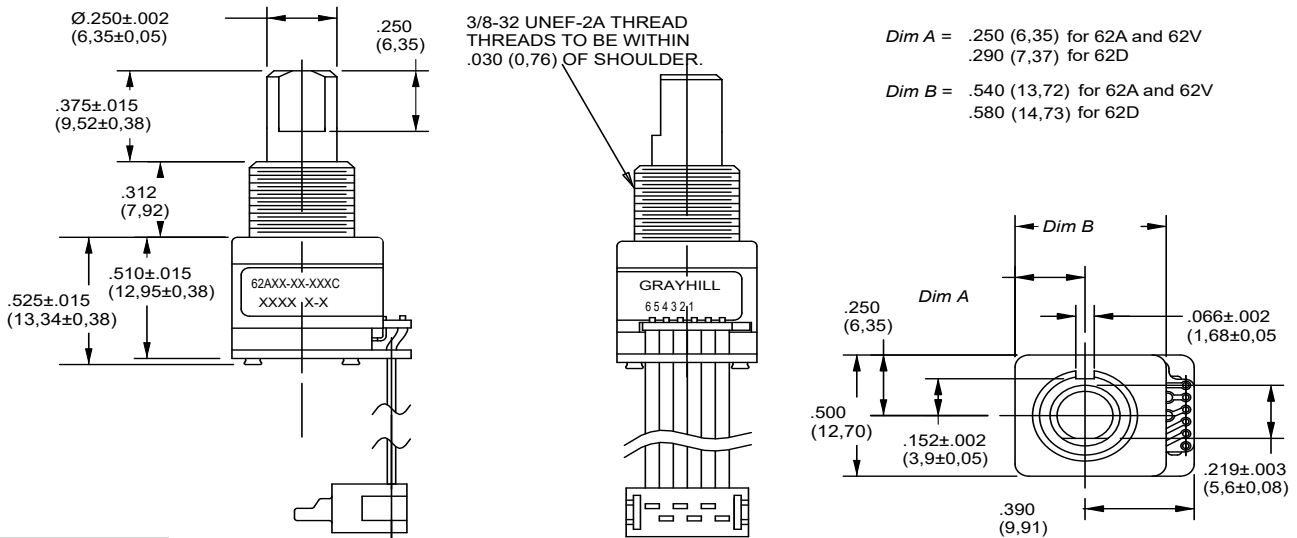
APPLICATIONS

- Global Positioning/Driver Information Systems

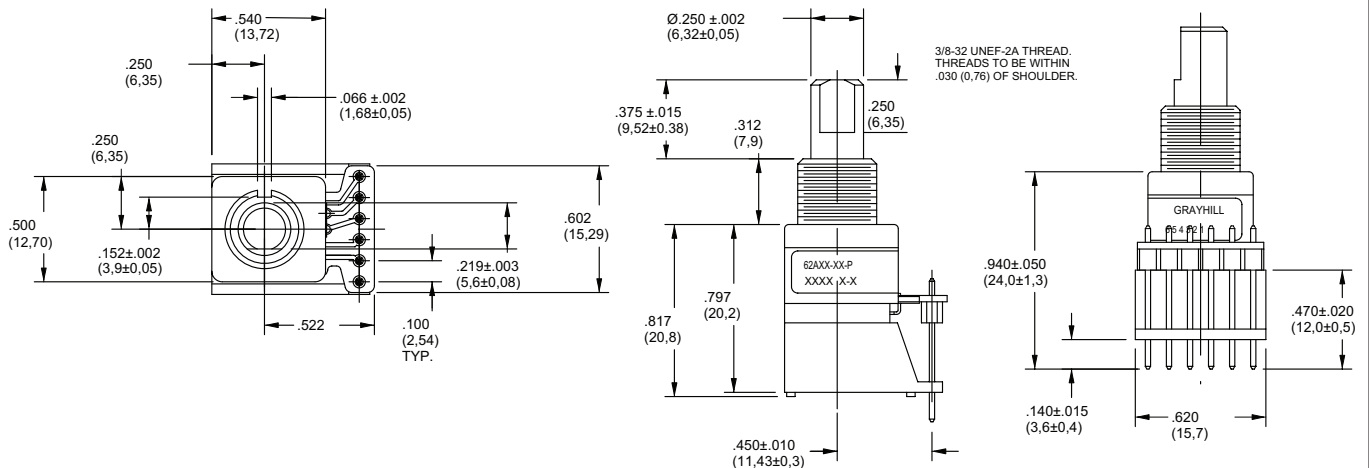


DIMENSIONS in inches (and millimeters)

Cable Version



Pin Version



TERMINATION OPTIONS



Optical and Mechanical Encoders

SUPPLY CURRENT & LOGIC OUTPUT CHARACTERISTICS

| | | A & D STYLE | V STYLE |
|-------------------------------|-----------------|---|---|
| OPERATING VOLTAGE: | | 5.00±.25 Vdc. | 3.30±.125 Vdc. |
| SUPPLY CURRENT: | | 30 mA MAXIMUM. | 50 mA MAXIMUM. |
| LOGIC OUTPUT CHARACTERISTICS: | SMT OPTICS | PUSH-PULL OUTPUTS COMPATIBLE WITH CMOS, TTL AND HCMOS LOGIC. | |
| | | LOGIC HIGH: $V_{OH} = 4.5$ Vdc MIN AT $I_{OH} = -8.0$ mA & $V_{CC} = 5.00$ Vdc. | N/A |
| | | LOGIC LOW: $V_{OL} = 0.5$ Vdc MAX AT $I_{OL} = 8.0$ mA. | N/A |
| | WIREBOND OPTICS | OPEN COLLECTOR PHOTOTRANSISTOR OUTPUT. | |
| | | LOGIC HIGH: $V_{OH} = 3.8$ Vdc MIN at $V_{CC} = 5.00$ Vdc WITH $2.2k\Omega$ PULL-UP RESISTOR. | LOGIC HIGH: $V_{OH} = 2.3$ Vdc MIN at $V_{CC} = 3.30$ Vdc WITH $2.2k\Omega$ PULL-UP RESISTOR. |
| | | LOGIC LOW: $V_{OL} = 0.8$ Vdc MAX AT $I_{OL} = 2.0$ mA WITH $2.2k\Omega$ PULL-UP RESISTOR. | LOGIC LOW: $V_{OL} = 0.8$ Vdc MAX AT $I_{OL} = 1.0$ mA WITH $2.2k\Omega$ PULL-UP RESISTOR. |

WAVEFORM AND TRUTH TABLE Standard Quadrature 2-Bit Code



CIRCUITRY: SURFACE MOUNT OPTICS Pushpull Outputs (62A22, 62A15, 62A11)



CIRCUITRY: WIREBOND OPTICS Open Collector Outputs (All Others)



Optical and Mechanical Encoders