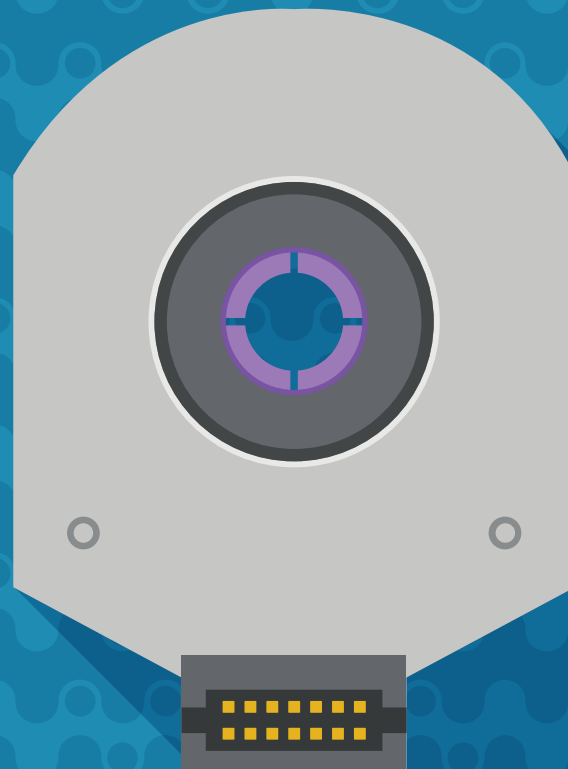


Motion

Rotary Encoders, Potentiometers & Stepper Servo Motors

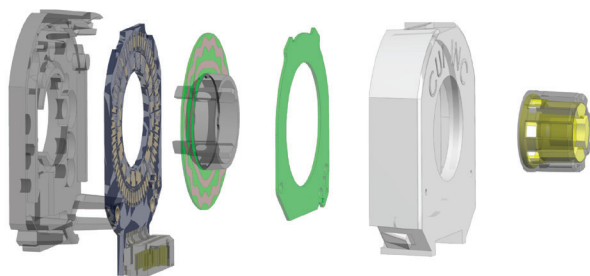


REVOLUTIONIZING ENCODER TECHNOLOGY

Our line of potentiometers, rotary encoders, and stepper servo motors offers a range of configurations to provide users with a highly reliable solution for almost any motion control application. Highlighting this product group is our groundbreaking AMT encoder line based on capacitive technology, which delivers unmatched flexibility and ruggedness without tradeoffs.

Capacitive Technology

Our AMT series of modular encoders utilizes capacitive technology to provide unmatched durability, flexibility, and programmability in an encoder. Used for years in digital Vernier calipers, capacitive technology incorporates two patterns of bars or lines, with one set on the fixed element and the other on the moving element. As the encoder rotates, a proprietary ASIC counts these line changes and interpolates to provide highly accurate position feedback.



Features & Benefits

- Resistant to dirt, dust & oil
- High accuracy
- Low current draw
- Longer life
- Wide operating temperature range
- Enables a range of programmable features

Engineering Tools



CAD Model Library

CUI Devices' library of ready-made 3D models helps to streamline the design process, saving you precious time and resources. Users are able to view and download 3D models in all major mechanical CAD formats free of charge.



Resources

Highlighting practical and technical applications, CUI Devices' resource library of videos, technical papers, and more provides engineers with a wealth of knowledge on encoders and motion control design.



AMT Viewpoint™

Via the AMT Viewpoint™ GUI users can program a range of encoder parameters and access diagnostic data for quick analysis during design, allowing for an unprecedented level of visibility and control.

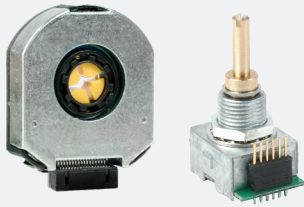
[View these and more helpful resources at www.cuidevices.com/resources](http://www.cuidevices.com/resources)



Global Stock Availability

Our network of global distribution partners provides you with quick and easy access to our motion control products, ready to ship same day across the globe.

MOTION PRODUCT LINE



Incremental Encoders

Resolutions from 10 ~ 5120 PPR

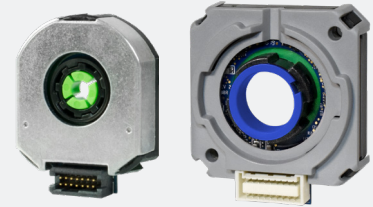
- Modular & panel mount package types
- 2-bit quadrature, CMOS voltage, line driver, open collector & voltage output types
- Operating temperature ranges up to -40 ~ 125°C
- Axial, radial, horizontal & vertical orientations
- 1 ~ 15.875 mm shaft bore diameters
- 0 ~ 10 Vdc input voltages
- 120 ~ 8,000 RPM max speeds
- 7.5 ~ 30 mm shaft lengths
- Cable, header, PCB pin & solder hole termination types



Absolute Encoders

Resolutions up to 14 Bit

- Modular package type
- SPI, SSI & RS-485 interfaces
- Single-turn or multi-turn outputs
- Operating temperature ranges up to -40 ~ 125°C
- Axial & radial orientations
- 2 ~ 15.875 mm shaft bore diameters
- 3.8 ~ 5.5 Vdc input voltages
- 4,000 & 8,000 RPM max speeds
- Low current draw
- Compact design



Commutation Encoders

Resolutions from 48 ~ 4096 PPR

- Three phase U, V, W commutation signals
- CMOS voltage, commutation line driver, line driver & quadrature line drive output types
- Operating temperature ranges up to -40 ~ 125°C
- Axial & radial orientations
- 2 ~ 15.875 mm shaft bore diameters
- 4.5 ~ 5.5 Vdc input voltages
- Accommodates 2 ~ 20 pole brushless motors
- Low current draw
- Compact design



Stepper Servo Motors

AMT Encoder & Stepper Motor

- NEMA 8, 11, 14, 17, 23 frame sizes
- 3 ~ 270 oz-in (0.021 ~ 1.90 N-m) holding torques
- Provides closed-loop feedback for complete servo system
- 22 programmable incremental resolutions from 48 ~ 4096 PPR
- 1.8° step angle
- Digitally set zero position
- -20 ~ 50°C operating temperature range
- Patented capacitive encoder ASIC technology



Potentiometers

Panel Mount Rotary Models

- 1 to 1000 kΩ resistance ratings
- Linear, logarithmic, or reverse logarithmic tapers
- Wide variety of terminal configurations
- Available with or without center detent
- Shaft lengths of 15, 20, 25, or 30 mm
- D-cut or knurled shaft styles
- 0.05 W power ratings
- 280° mechanical angle
- -10 ~ 60°C operating temperature range
- Rotational life of 10,000 cycles

CUI DEVICES

Headquarters
6405 SW Rosewood St, Ste C
Lake Oswego, Oregon 97035

1-877-323-3576

www.cuidevices.com



© 2022 CUI Devices. All Rights Reserved. 03-2022-010-0380R

CUI Devices reserves the right to make changes to the product at any time without notice. Information provided by CUI Devices is believed to be accurate and reliable. However, no responsibility is assumed by CUI Devices for its use, nor for any infringements of patents or other rights of third parties which may result from its use.