JTEKT Encoders

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mECD-1
High-Quality, Rugged Encoders

Where can I use an encoder?

Encoders are used in all types of motion sensing applications, including machine tooling, semi-conductor positioning and multi-axis positioning. All Koyo encoders feature a reinforced aluminum diecast casing and come equipped with a two-meter cable or MS connector. Use the incremental encoders with our PLC high-speed counter modules for accurate position monitoring and control. Or use our absolute encoders to monitor position with Gray code and standard PLC DC inputs.

Why buy an encoder from us?

There are several distinct advantages to purchasing your encoder from AutomationDirect:

**Price**

As with all of our product lines, our prices are often well below the list prices of traditional automation suppliers. Our direct business model allows us to operate more efficiently than other suppliers and pass the savings on to you.

**Quality**

All encoders carry a 1-year warranty, and a 30-day money-back guarantee. If for any reason you are not satisfied with your purchase, send it back and we will refund your money.

**What is a light-duty encoder?**

Modular encoders are bolt-on options for SureStep stand-alone dual-shaft motors and standard integrated motor/drivers. Our kit encoders offer:
- Capacitive and optical technologies
- Designed to fit NEMA 29 to NEMA 42 motors
- Line driver, NPN open-collector, or push-pull outputs
- Fixed or configurable resolutions up to 4096 ppr

**What is a medium-duty encoder?**

Includes series: TRD-N, TRD-NH, TRDA-20, TRDA-25, TRD-NA

A medium-duty encoder is the most popular encoder we offer. The product line offers the greatest flexibility of choice while maintaining very high quality, all for a very low price. Our medium-duty encoders offer:
- Size 20 (2.0 inch or 50mm) diameter body or Size 25 (2.5 inch flange with 2.0 inch diameter body) frames
- Dual Output (IP65) or splash-proof (IP66) ratings
- 8 mm or 3/8" standard shaft or 8 mm hollow shaft
- Incremental or absolute (Gray code) operation
- Incremental resolution available from 3 pulses/revolution to 5000 pulses/revolution
- Absolute resolution available from 32 pulses/revolution to 2048 pulses/revolution
- Open collector, Totem-pole or line driver output versions
- Up to 200 kHz response frequency
- MS connector models available

**What is a heavy-duty encoder?**

Includes series: TRD-GK

A heavy-duty encoder is the most rugged encoder you can buy. Top-of-the-line bearings help maintain a service life of 12 billion revolutions. Our heavy-duty encoders offer:
- Rugged size 20 (2.0 inch or 78mm) diameter body
- Splash-proof (IP65) rating
- 10 mm standard shaft
- Incremental operation from 3 pulses/revolution to 5000 pulses/revolution
- Totem-pole output
- Up to 100 kHz response frequency

1 Absolute encoders are not compatible with the PLC high-speed counter modules, but can be used with general purpose DC input cards.

**Great Encoder Selection at Great Prices**

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**Modular/Kit encoders are direct mount, there are no load ratings.**

*Operating Voltage and Electrical Output:
- LD = Line Driver (all Line Drivers require 24VDC supply)
- OC = NPN Open Collector (at Operating Voltage)
- P/P = Push Pull or Totem Pole (at Operating Voltage)*

Cables

For encoders that require a connector cable, we have cables in stock, priced right and ready to ship.

Accessories

Mounting brackets

Simplify your installation with a ready-to-use right-angle mounting bracket for light, medium and heavy-duty encoders.