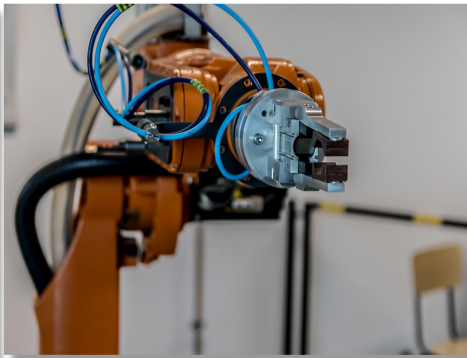


**BRITISH
ENCODER**
PRODUCTS COMPANY



Equipment like yours...



... deserves quality like ours.

BEPC combines advanced optics and sensor technology with intelligently engineered housings for performance you and your customers can rely on. Made in the United Kingdom and backed by our industry-best three year warranty, British Encoder Products Company optical encoders deliver when it counts—which is all the time.



Short-form Brochure

The Responsive People In Motion Control

Company History

British Encoder Products is the European branch of Encoder Products Company Inc (EPC). EPC is a leading designer and world-wide manufacturer of motion sensing devices. Founded in 1969 by William Watt, EPC began operations with a small line of custom encoders. Today, more than 50 years later, EPC's popular Accu-Coder™ brand is the most complete line of incremental and absolute shaft encoders in the industry. Our core philosophy is that each and every customer deserves quality products, superior customer service and expert support.

Business Partnerships

Fostering long term business partnerships with satisfied customers is what we do best, and the heart of our mission. We take pride in providing superior customer service and supplying you an encoder that functions precisely, dependably and flawlessly. Listening to our customers needs, and designing products that provide solutions for them, is a key to our success. It isn't every company that can say they have satisfied their customers for over 40 years!

Innovative Design Team

At EPC and BEPC, we concentrate on encoders, making us famous for paving the path of the encoder industry and providing encoder standards for our industry since 1969. First to design the cube style encoder, now an industry standard. First to resolve mounting installation problems by providing an industry first flexible-mounting system. First to include Opto-ASIC technology, which virtually eliminates miscounts by removing electrical noise, and enhancing signal quality. First to provide an encoder that operates at 120° C. First to provide 6000 PPR in a 38mm diameter encoder. First to provide a 3 year standard warranty, demonstrating that we stand proudly behind the reliability of each of our products.



Solving Problems

For over 50 years, we have been solving encoder problems. Custom designs, faster delivery and reliable products are all areas in which we excel. We believe that an encoder supplier should solve problems, not cause them.

Custom Encoders Our Specialty

Through years of experience, we understand each industrial environment is different so you need an encoder that fits your specific situation. This ultimately means not having to make do with someone else's specifications or configurations, but having your own custom designed unit. Many of our customers have come to depend on us for this special area of customization. Using state of the art technology, we can design and deliver custom encoders faster than most suppliers standard products. Often shipping your unique encoder in 2 to 6 days or sooner.

ISO 9001 Quality Systems

At BEPC, quality is designed into every product. Before it's offered for sale, each Encoder model is developed using state-of-the-art design tools and fully tested against BEPC's exacting quality standards. But quality does not stop at design. During the manufacturing process, each Encoder is subjected to a series of stringent quality control tests to ensure you are receiving the best encoder available. Our quality system has successfully been audited to the requirements of ISO 9001:2015, an internationally recognized standard for comprehensive Quality Systems. By paying close attention to detail, our Encoder brand has become known throughout the industry for quality and reliability.

ISO 45001 Health and Safety

British Encoder Products are committed to maintaining a safe and caring work place. In order to demonstrate our commitment to this we have had our health and safety procedures and systems audited and approved to ISO 45001:2018. We believe this benefits our customers due to our employees producing higher quality products with less wastage and rework necessary.

British Encoder Products Contact Information

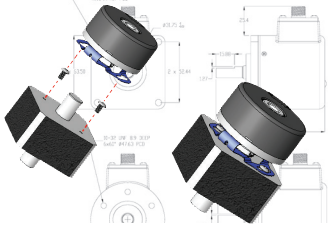
Sales: +44 (0) 1978 262100
GM: +44 (0) 1978 294018
AGM/Sales: +44 (0) 1978 294017
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Email: kasia.serafin@encoder.co.uk

Normal Business Hours
Monday Through Thursday
08:00 - 16:30
Friday 08:00 - 14:00

The British Encoder Products Advantage!

Superior Design



- First To Use Opto-ASIC Technology
- Creators Of The First Cube Encoder
- Creators Of The Original Tru-Trac™

Customer Service



A Helpful Customer Service Representative Is Available From
8:00 am To 4:30 pm

Exceptional Value



We've Done Our Homework!
There Is No Better Encoder On
The Market For The Price!

Fast Delivery



- Standard Delivery up to 7 Days
- Expedite Delivery Available

Contents

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[BEPC Small Motor Solutions](#)

[Ultra Rugged 50.8mm Encoders](#)

[Direct Replacement Encoders](#)

[Encoder Solutions](#)

[Typical Usage of Encoders](#)

[Expedite Delivery Information](#)

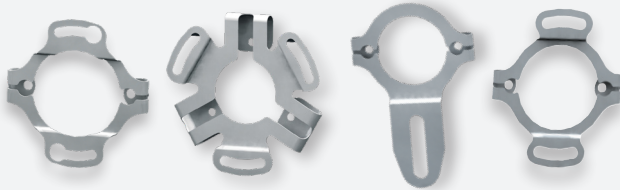
3 Year Warranty



The Best In The Industry!

BEPC Solutions

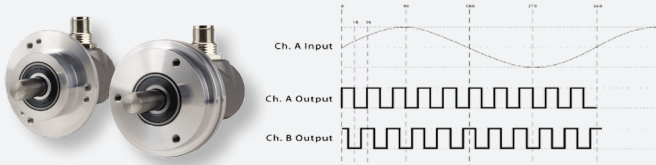
Mechanical Interface Challenge? BEPC Flex Mount Solution



We Have Got A Bracket For You

At British Encoder Products Company we have the encoder you need with a flexible mounting solution to make your installation a breeze! With bolt hole patterns from 29mm in slotted flex, to 60mm tether arms, BEPC can retrofit most existing flex mounts on the market.

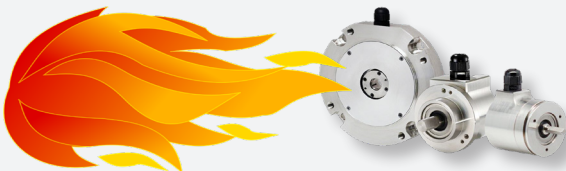
Resolution Requirements? BEPC Has More Options



Large Range Of PPRs With Resolutions Up To 30,000

From the most common resolutions to PPRs up to 30,000 in a 38.1mm encoder, BEPC has the resolutions, commutation, and interpolation available to get your motor/controller performing flawlessly.

High Temperatures/Hot Motors? BEPC Can Take The Heat



Extreme Temperatures To 120° C

All the small motor encoders shown can take the heat to 100° C, and the Models 15 and 260 can take the extreme temps of 120° C~ Now That's HOT HOT HOT!

Delivery Lead Time? BEPC Delivers In 3-5 Days Or Less

Standard Products Or Custom Configuration- BEPC Delivers Fast

Tired of waiting for an encoder to get your production line up and running? BEPC delivers encoders fast. Even custom encoders are often shipped faster than most suppliers standard products. When you need an encoder, let BEPC show you why we continue

All This With BEPC's Industry Leading Warranty!

Encoder Basics

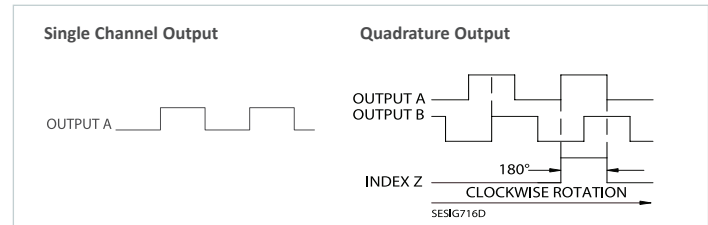
What is an encoder?

An encoder is a sensing device that provides feedback from the physical world – it converts motion to an electrical signal that can be read by some type of control device, such as a counter or PLC. The control device can then use that signal to control a conditional event, such as activating a print head to create a mark at a specific location.

Encoders use different types of technologies to create a signal. Some common encoder technologies are: mechanical, magnetic, resistive, and optical. Currently, the most common technology employed by encoders is optical.

Encoders may produce either incremental or absolute signals. Incremental signals do not indicate specific position, only that the position has changed. Absolute encoders, on the other hand, use a different “word” for each position, meaning that an absolute encoder provides both the indication that the position has changed and an indication of the absolute position of the encoder.

Incremental encoders are available in two basic output types, single channel and quadrature, shown below.



A single channel encoder, often called a tachometer, is normally used in systems that rotate in only one direction and require simple position and velocity information.

Quadrature encoders have dual channels (A and B), phased 90 electrical degrees apart. These two output signals determine the direction or rotation by detecting the leading or lagging signal in their phase relationship. Quadrature encoders provide very high speed bi-directional information for very complex motion control applications.

How an incremental encoder square wave is produced:

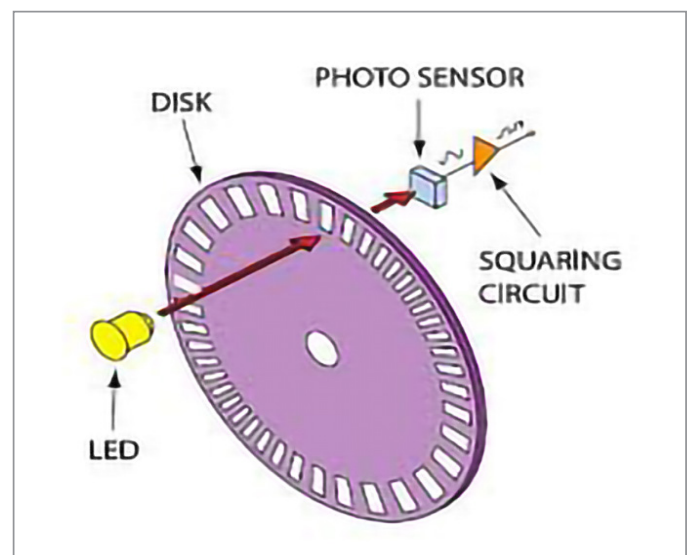
The inset diagram outlines the basic construction of an incremental encoder. A beam of light emitted from an LED passes through a transparent disk patterned with opaque lines. The light beam is picked up by a photodiode array, also known as a photosensor. The photosensor responds to the light beam, producing a sinusoidal wave form, which is transformed into a square wave or pulse train. This pulse signal is then sent to the counter or controller, which will then send the signal to produce the desired function.

The diagram is for a typical rotary encoder. Incremental encoders can provide a once-per-revolution pulse (often called the index, marker, or reference) that occurs at the same mechanical point of the encoder shaft revolution. This pulse is on a separate output channel (Z) from the signal channel or quadrature outputs. The index pulse is often used to position motion control applications to a known mechanical reference.



a compact, 2-inch blind hollow bore encoder (1) provides motion feedback on a motor. The flex mount (2) stabilizes the encoder, and the cable sends the electrical signal to the receiver.

Resolution is a term used to describe the Pulses Per Revolution (PPR) for incremental encoders. Each incremental encoder has a defined number of cycles that are generated for each 360 degree revolution of the shaft. These cycles are monitored by a counter or motion controller and converted to counts for position or velocity control. The diagram shows how the whole encoder comes together.



If you still have questions as to how an encoder works in your specific application, please call us. When you contact BEPC, you can talk to engineers and encoder experts for your toughest encoder questions.

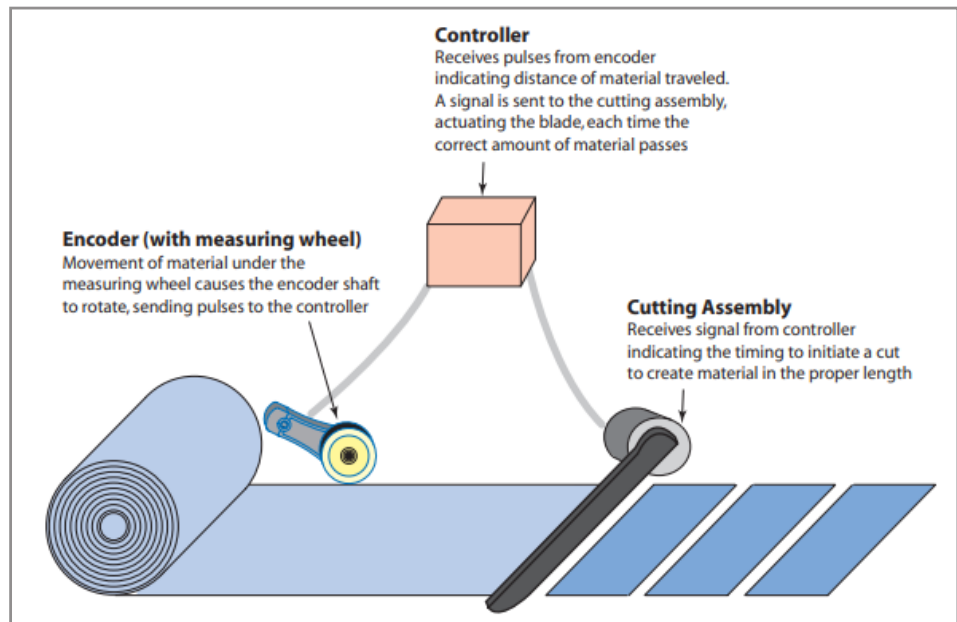
Typical Usage

Motor feedback is the most common use for rotary encoders. In this type of application, an encoder is either mounted directly to the motor or indirectly using a measuring wheel or chain-and-sprocket arrangement. The parameter of interest is primarily the speed of the motor.

Web tensioning is an application in which the encoder is not usually mounted to the drive motor but to one of the tensioning arm rollers. Any unevenness in the speed of this roller indicates that proper web tension is not being maintained and must be adjusted. The rotating speed of the tensioning roller is fed back to the controller, which then adjusts the drive motor so that web material is kept at an even tension.

Registration Mark Timing uses encoders to determine the position of a unit relative to a known point, and then to determine the unit's speed relative to that mark. Radar antenna rotation is a good example of this type of applica-

Conveying is another common industry where encoders are widely used. They may be attached to the motor, to intermediate axle shafts or to both. Encoders are an especially effective feedback device where the positioning and/or speed of multi-element conveying systems must be carefully coordinated.



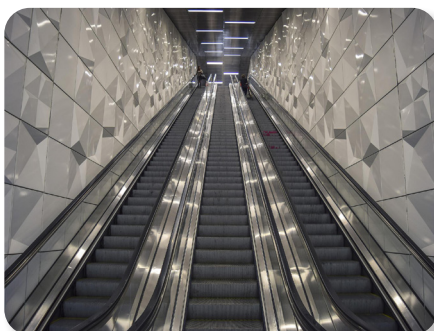
Cut-to-Length is a very practical application of an encoder combined with simple mathematics. If, for example a system were to be designed with a roller that is exactly one foot in circumference, the roller would feed one foot of material for every revolution of the roller. An encoder mounted to the roller would reflect this situation and could tell a controller how much material had been fed through the roller. The resolution of the encoder would also directly reflect the accuracy of the cut. In the above example, 96 PPR would yield cuts to an 1/8" accuracy.

Spooling (sometimes referred to as Level Wind) is another application where encoders can prove invaluable. Not only is it necessary that the speed of the supply and take-up reels be kept in proper relation to each other, but the amount of material being spooled must also often be tracked.

In Backstop Gauging the encoder is used to make sure that the unit, typically a machine tool does not exceed a preset position or direction of travel. Very often, this is combined with a determination of the speed of travel of the table, tool head or similar component. A typical filling application is just one example where Table Positioning is critical since the item being filled must arrive at filling tube at the same time the fluid control is turned on.

Electronics is just one industry that widely uses encoders in Pick and Place applications. Here many of the capabilities of encoders (rate, position, speed, velocity) can often be found combined in a single system.

Elevators are just one example where encoders can perform a dual role. They can determine the position of the elevator through a mathematical calculation similar to the above, and they can determine the speed of travel of the elevator.



British Encoder Products Selection Overview

Incremental Thru-Bore; Motor Mount Encoders & Modular Encoders



Ø38.1mm

Models 15T & 15H

- Resolutions to 10,000 PPR
- Up to 12 Pole Commutation Available
- Bore Sizes to 0.375", or 10 mm
- Operating Temps from -40° to +120° C
- Sealing Up to IP64



Ø38.1mm

Model 755HS

- Resolutions to 30,000 PPR
- Bore Sizes to 0.375", or 14 mm
- A Variety of Flexible Mounting Brackets
- Operating Temps from -40° to +100° C
- Frequencies to 1 MHz



Ø50.8mm

Model 260

- Resolutions to 10,000 PPR
- Bore Sizes to 0.625", or 15 mm
- A Variety of Flexible Mounting Brackets
- Operating Temps from -40° to +120° C
- Sealing Up to IP64



Ø63.5mm

Model 25T

- Replaces 2.0" to 3.5" Encoders
- Resolutions to 10,000 CPR
- Bore Sizes to 1.125", or 28 mm
- Versatile Flexible Mounting Options
- Operating Temps from -20° to +105° C



Ø50.8mm

Model 58TF

- 58 mm Thru-Bore or Hollow Bore Encoder
- Bore Sizes up to 5/8" and 15 mm
- Resolution from 1 to 65,536 PPR
- Several Flexible Mounting Options
- Sealing Options up to IP67
- Multiple Connector Options



Ø63.5mm

Models 760

- Resolutions to 10,000 PPR
- Up to 12 Pole Commutation Available
- Bore Sizes to 0.500", or 15 mm
- Operating Temps from 0° to +100° C
- Sealing Up to IP64



Ø110mm

Models 775 & 776

- Slim Profile - to 1.36" Thru-Bores
- Resolutions to 4096 PPR
- Bore Sizes to 1.875", or 43 mm
- Large Selection of Connector Options
- Operating Temps from 0° to +100° C



Ø165mm

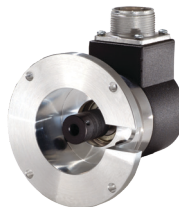
Model 770

- Fits NEMA Frame Size 56C Thru 184C
- Resolutions to 4096 PPR
- Bore Sizes to 1.00", or 24 mm
- Large Selection of Connector Options
- Operating Temps from 0° to +100° C



Model 755A NEMA

- NEMA 23 or 34 Motor Mount with Coupling
- Resolutions to 30,000 PPR
- Frequencies to 1 MHz
- Coupling Sizes to 0.375", or 6 mm
- Operating Temps from -40° to +100° C



Ø50.8mm

Model 702 Motor Mount

- 50.8mm Ultra-rugged, Compact Encoder
- Resolutions to 30,000 PPR
- Frequencies to 1 MHz
- Coupling Sizes to 0.500"
- Operating Temps from 0° to +100° C



Ø50.8mm

Model 121 Modular Encoder

- Patented Auto Aligning Modular Encoder
- Up to 12 Pole Commutation Available
- Bore Sizes to 0.625", or 15 mm
- Ideal for higher speed motor applications
- Resolutions to 2540 PPR

British Encoder Products Selection Overview

Incremental Shaft Encoders



57.15mm

Models 711/716 & Cube Housings

- The Original Cube Encoders
- Single Channel or Quadrature
- Versatile Heavy Duty Housing Styles
- Resolutions up to 10,000 PPR
- Single and Double Shaft Options



Ø38.1mm

Model 155

- Resolutions to 10,000 PPR
- Up to 12 Pole Commutation Available
- Wide Variety of Mounting Options
- Operating Temps from -40° to +120° C
- Sealing up to IP64



Ø38.1mm

Model 755RG & 755 Lid Accessories

- Resolutions up to 30,000 PPR
- Frequencies to 1MHz
- Variety of Servo and Flange Mounts
- Available with In-Line M12 Connectors
- Operating Temps from -40° to +100° C



Ø50.8mm

Model 702

- Resolutions to 30,000 PPR
- 35 Kg Max Radial and Axial Load
- Shaft Sizes up to 0.375" or 10mm
- Operating Temps from 0° to +100° C
- Sealing Up to IP67



Ø63.5mm

Model 725

- Industrial Isolated Flex Housing Available
- Resolutions to 30,000 PPR
- Frequencies Up to 1 MHz
- Sealing Up To IP67
- Operating Temps from 0° to +100° C



Ø115mm

Models 744 "444" Tacho Style

- Standard "444" Style, 115mm Dia
- Up to 30,000 PPR
- Choice of Shaft Sizes
- IP64 Sealing Available



Ø90mm

Models 745 Heavy Duty

- European 90/80/40mm Configuration
- Resolutions to 30,000 PPR
- Hohner 3000/4000 Direct Replacement
- IP64 Sealing Available



Ø58mm

Model 758

- 36Kg Max Radial and Axial Load
- Resolutions up to 30,000 PPR
- Clamping or Synchro Flange Options
- Operating Temps from 0° to +100° C
- Sealing Up to IP66



Ø90mm

Models 7RP Extra Heavy Duty

- Extra Heavy Duty Mechanical Assembly
- Single or Double Ended Shaft
- Reversible Face Fixing Option
- Incorporates Opto-ASIC Technology



Ø68mm

Models 86A Extra Heavy Duty

- Standard 68mm Dia Package
- Resolutions to 30,000 PPR
- Incorporates Opto-ASIC Technology
- Square Flange Mounting
- IP65 Double "O" Ring Sealed



Ø90mm

Model 86F Extra Heavy Duty

- Transverse Slotted Shaft
- Up to 3000 PPR
- Incorporates Opto-ASIC Technology
- 90mm Round Flange with 3 x 4.5mm Dia Holes at 120 Degrees apart on a 82mm PCD
- Double "O" Ring Sealed



Ø63.5mm

Model 25SF

- Industry Standard Size 25 (63.5mm) Package
- Resolutions from 1 to 65,536 PPR
- Heavy Duty Bearings
- Sealing Up To IP67
- Servo and Flange Mounting

Linear Solutions Encoders



Model TR1

- Integrated Encoder and Measuring Wheel
- Spring Loaded Torsion Arm Adjusts Wheel Pressure for Multi Surfaces; Easy Installation
- Resolutions to 10,000 PPR
- Sealing Up to IP66



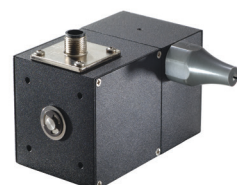
Model LCX

- Low Cost Linear Solution
- Temperature range -20° C to 85° C
- Optional low temperature range of -40° C
- Wire Length options from 1 to 42.5 meters
- Optional high corrosion protection



Model TR3

- Integrated Heavy Duty Encoder and Measuring Wheel
- Easy Installs in a Vertical, Horizontal or Upside Down Orientation
- Resolutions to 10,000 PPR
- Single or Dual Wheel
- Sealing Up to IP66



Model LCE

- Low Cost Linear Solution
- Imperial and Metric Options
- Sealing up to IP65
- Up to 1.27M or 50 Inches Full Stroke Length

British Encoder Products Selection Overview

Stainless Steel Encoders



Ø50.8mm

Model 802S

- 50.8mm Industrial 316 Stainless Steel Housing
- 36 Kg. Max. Radial and Axial Load
- Resolutions to 30,000 PPR
- Shaft Sizes to 0.375", or 10 mm
- Sealing Up to IP66



Ø58 mm

Model 858S

- 58 mm Industrial 316 Stainless Steel Housing
- 36 Kg. Max. Radial and Axial Load
- Resolutions to 30,000 PPR
- Clamping or Synchro Flange Options
- Sealing Up to IP66

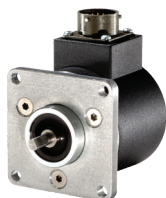


Ø165mm

Model 865T

- Fits NEMA Frame Size 56C Thru 184C Motors
- Slim 1" Profile Housing in 316 Stainless Steel
- Resolutions to 4096 PPR
- Bore Sizes to 1.00", or 24 mm
- Sealing Up to IP66 with Optional Cover

Absolute Encoders



Ø63.5mm

Model 925

- Industrial Housed 63.5mm Single Turn Absolute Encoder
- Gray, Natural Binary and Excess Gray Code
- Shaft Sizes to 0.375" or 10mm
- Flange and Servo Mounts
- Sealing Up to IP66



Ø58mm

Model 958

- European Size 58mm
- Gray, Natural Binary and Excess Gray Code
- Shaft Sizes to 0.375" or 10mm
- Clamping or Synchro Flange Options
- Sealing Up to IP66



Ø50.8mm

Model 960

- Low Profile - 39.37mm Single Turn Absolute
- Opto-ASIC Circuitry in an All Metal Housing
- Resolutions Up to 11 Bits
- Bore Sizes to 0.375" or 10mm
- A Variety of Flexible Mounting Brackets



Ø36mm

Model A36HB

- Standard Size 36mm Package
- Double Magnetic Technology
- Single/Multi Turn (16 bit ST/43 Bit MT)
- SSI and CANopen Communications
- Hollow Shaft and Flex Mounting



Ø36mm

Model A36SB

- Standard Size 36mm Package
- Double Magnetic Technology
- Single/Multi Turn (16 bit ST/43 Bit MT)
- SSI and CANopen Communications
- 6mm or 0.250" Shaft & Servo Mounting



Ø58mm

Model A58HB

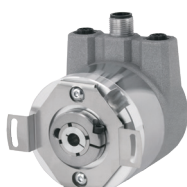
- 58mm Diameter
- Durable Magnetic Technology
- Single/Multi Turn (16 bit ST/43 Bit MT)
- SSI and CANopen Communications
- Retains Absolute Position After Power Outage



Ø63.5mm

Model A25SB

- Standard Size 25 Package 63.50mm Dia
- Double Magnetic Technology
- Single/Multi Turn (16 bit ST/43 Bit MT)
- SSI and CANopen Communications
- Servo & Flange Mounting



Ø58mm

Model A58HE Profinet

- EtherCAT Deterministic Communication
- 58 mm Diameter Package
- Hollow Bore Construction
- Durable Magnetic Technology
- Multi-Turn Absolute Encoder (16 Bit ST /43 Bit MT)
- Proven Turns Counting Technology
- Flex Mount Eliminates Couplings
- Works in various configurations



Ø58mm

Model A58SE Profinet

- EtherCAT Deterministic Communication
- 58 mm Diameter Package
- Shaft Unit with 2 Mounting Options
- Durable Magnetic Technology
- Multi-Turn Absolute Encoder (16 Bit ST /43 Bit MT)
- Proven Turns Counting Technology
- 2 Colour LEDs for Op Condition and Bus Status
- Works in various configurations



Ø58mm

Model A58SB

- SSI or CANopen Communication
- 58 mm Diameter Solid Shaft Encoder
- No Gears or Batteries
- Energy Harvesting Magnetic Multi-Turn Technology
- Single Turn/Multi-Turn Absolute Encoder (16 Bit ST / 43 Bit MT)
- Maintenance-Free and Environmentally Friendly All-Magnetic Design

British Encoder Products Selection Overview

Programmable Encoders



Model 25SP

- Industry Standard Size 25 Package (63.5mm)
- Fully Programmable with Optional USB Module or Factory Configured
- Optical Technology for High Accuracy
- Resolutions from 1 to 65,536 PPR
- Servo and Flange Mounting
- IP67 Sealing Available



Model 58TP

- 58 mm Thru-Bore or Hollow Bore Encoder
- Fully Programmable with Optional USB Module or Factory Configured
- Optical Technology for High Accuracy
- Resolutions from 1 to 65,536 PPR
- Several Flexible Mounting Options
- IP67 Sealing Available

Accessories



RX/TXD

- Din Rail Mountable
- Level Changes to 5V, 12V or Vcc
- Signal Conditioning
- 2 or 3 Way Splitter
- Encoder Tester



Measuring Wheels

- Rubber, Urethane or Knurled
- Sizes up to 500mm Circumference
- Custom Bore Options



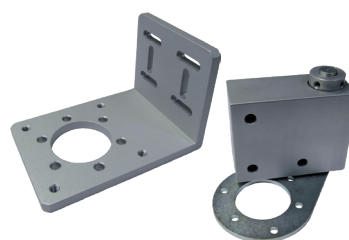
Cables

- 4 Pin up to 19 Pin
- MS Style, M12 EuroFast, 9-Pin "D" Style
- Cable Length Options



Couplings

- Bore Sizes Up to 12mm Bore
- Magnetic And Flexible Options



Flanges, Brackets and Misc Items

- Flanges and Brackets
- Flex Mount Kits
- Servo Clamps
- Protective Covers
- C-Face Gasket Kits



Power Supply Unit

- 5V, 12V or 24 Vcc
- LED Indicators
- Screw Type Terminals for AWG 24 to 14
- Shock Proof Housing

When deciding whether a modular or bearing encoder is the best solution for your application, consider these factors:

1. First and foremost, shaft end float and total indicated runout (TIR) must be within the encoder's specifications. This is so important that if you don't have (or can't get) this information, or don't trust what you have, an encoder with bearings is strongly recommended since it will be a much safer choice.
2. Modular encoders can be a good choice for high-speed applications – above 10,000 RPM – because there are no speed limitations dictated by encoder bearings. For example, BEPC's Model 121 Modular Encoder has been successfully operated at speeds in excess of 40,000 RPM. The speed limiting factor is the maximum frequency of the encoder (which is a function of disk resolution), RPMs, and the signal processing circuitry. Most encoder manufacturers include maximum frequency in product specifications.
3. If the motor is to be used under considerable mechanical load, where the motor bearings could experience extra wear, then an encoder with bearings would be the better choice. Remember, the bearings of the host device serve as the bearings of the modular encoder.
4. Modular encoders are difficult to seal. If your application requires washdown, or if the operating environment is dirty, dusty or wet, then an encoder with bearings and seals should be your first consideration. Such environments effectively rule out modular encoders, unless external protection, such as an IP sealed motor cover, is used.
5. If your application requirements combine high maximum frequency (> 200kHz), high temperature (100° C or higher), and higher resolution (> 2048 PPR), then an encoder with bearings is recommended. For long term reliability, this combination of factors requires the air-gap between the disk and sensor to be very narrow and tightly controlled. An encoder with bearings simply provides a more stable optical platform.
6. Lower resolutions (up to 1024 PPR) are more forgiving of end float and TIR, and are often well-suited for modular applications if the operating environment is appropriate.
7. If you plan to use numerous encoders, then the relatively lower price of a modular encoder could save you some money. On the other hand, the greater durability and easier installation of an encoder with bearings might be worth a slightly higher unit price. In any case, carefully weigh the factors of long term support costs versus lower acquisition costs before making your final decision.

Quick Selection Chart

| Parameter | Attribute | Use Modular | Use Encoder with Bearings |
|--|---|--------------------------|---------------------------|
| Motor shaft end float and TIR | Within the encoder manufacturer's specifications | Yes | Yes |
| Motor shaft end float and TIR | Outside the encoder manufacturer's specifications | No | Yes |
| Motor shaft end float and TIR | Don't have the information or don't trust | Not suggested | Suggested |
| High-speed applications | Above 10,000 RPM | Good possibility | Not suggested |
| Severe duty application | Motor bearings have extra load and wear | Not suggested | Suggested |
| Dirty environment | May need seals | Not suggested | Suggested |
| Combination of high frequency response, temperature, PPR | > 200kHz, > 100° C, > 2048 PPR | Not suggested | Suggested |
| Lower resolution requirement | < 1024 pulses per revolution | Good possibility | Good |
| Number of units needed | Acquisition cost vs. life cycle cost | Consider if large volume | Good |

Programmable Linear Measurement Solution

British Encoder Products Company (BEPC) has introduced a new addition to their line of linear measurement solutions. With BEPC's newest linear measurement solution, you get a spring-loaded mounting bracket combined with a choice of measuring wheel. Then they select the encoder that best fits their linear motion control application.

This spring-loaded mounting bracket fits 2.5" (63.5mm) shafted encoders with servo mounts, and 58 mm shafted encoders with clamping flanges. The bracket works with the following BEPC encoders:

| Model 25SP Programmable Incremental Encoder | Model A58SE Ethernet-Ready Absolute Encoder | Model A25SB Absolute Bus Encoder | Model A58SB Absolute Bus Encoder |
|---|--|---|--|
|  |  |  |  |
| When ordering, select: <ul style="list-style-type: none"> • 3/8" shaft • 2.5" MC Servo Mount* • Select output type, wave form, and CPR <p><small>*The MG flange is also an option, but it will limit the orientation of the encoder connector to 120 degree increments</small></p> | When ordering, select: <ul style="list-style-type: none"> • 3/8" shaft • MH Clamping Flange • Choose either EtherCAT® or PROFINET® communication protocol | When ordering, select: <ul style="list-style-type: none"> • 3/8" shaft • MC Servo Mount • Choose either CANopen® or SSI communication protocol | When ordering, select: <ul style="list-style-type: none"> • 3/8" shaft • MH Clamping flange • Choose CANopen® or SSI communication protocol |

Choose your measuring wheel material: polyurethane, knurled aluminum, knurled anodized aluminum, or rubber insert.



Also, consider your accessories !



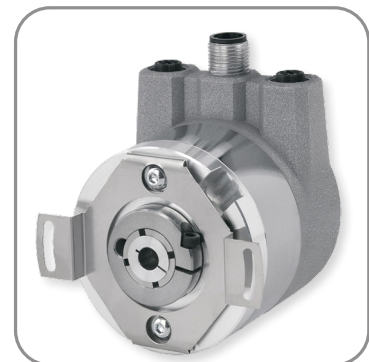
PROFINET Absolute Encoders

*Ready for Industry 4.0 and for the Industrial Internet of Things (IIoT), data exchange between the **Model A58SE** and **Model A58HE**, and other applications have no influence on the control loop. This Models are non-reactive and can work independently from the PLC or master, transferring data through network gateways to other automation networks and sites, and up to the cloud for analysis.*

FEATURES:

- Single/Multi-Turn Absolute Encoder (16 Bit ST / 43 Bit MT)
- Available in two industrial Ethernet protocols: EtherCAT with CoE, FoE, EoE – device profile: CiA DS-406 V4.0.2, Class 3
PROFINET I-O (CC-C) – device profile: switchable V4.1, Class 3, 4
- Maintenance-free and environmentally-friendly magnetic design
- Energy-harvesting magnetic multi-turn technology
- No gears or batteries
- Low TCO and easy provisioning with an internal web-server
- Shaft loads up to 400 N
- Color LEDs for the operating condition, bus status, link activity
- Compact design with bus cover
- MP Housing Option is most the compact EtherCAT and PROFINET model available

Coming Soon: **EtherNet/IP™**



It Just Makes Sense.

Replace Costly OEM Encoders Fast and Easy

You likely have motors from multiple manufacturers in your plant. And, for all those motors, you've got just as many different encoder models and brands to manage.

They all have different lead times from different vendors and probably cost a bundle.

Want to know a secret?

Most of those encoders can be replaced with just a few configurations of BEPC's Encoders - for example the Model 25T. This versatile high-performance encoder is at the heart of our Direct Motor Replacement (DMR) line.

Our DMR's fit the feedback needs of most common industrial motors, with more configurations being added regularly.

With DMRs you can replace the encoders in your plant with one source, getting equivalent encoders faster and for less.

It's a sensible choice.

Direct Motor Replacement (DMR) Encoders are the solution you've been looking for.

- Consolidate vendors with one encoder solution
- Save money on encoder replacements for most major motor brands
- DMR Encoders meet or exceed OEM specifications for performance and fit
- Short lead times – as fast as 24 hrs
- Industry best 3-year warranty



Encoder Solutions For Autonomous Vehicles and Robots

Typical Examples of Select Encoder Applications

Forklift- Type AMRs

Lift Control

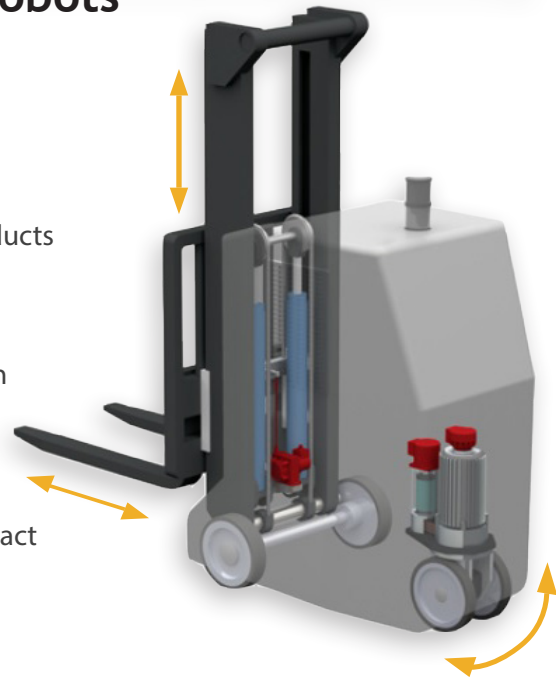
Get precise, accurate motion feedback to ensure that products and materials get where they need to go, undamaged.

Drive Motor

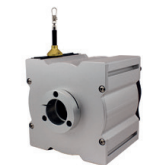
Get reliable motion feedback to ensure that they remain in designated transit corridors areas, and to ensure accurate stopping and starting.

Steering Assembly

Absolute encoders ensure smart positioning, providing exact location in a 360-degree rotation.



ENCODERS TYPICALLY USED ON FORKLIFT-TYPE AUTONOMOUS MOBILE ROBOTS



Model LCX



Model TR1



Model 15T



Model 260



Model 802S



Model A36HB



Model A58SB



Model A58HB

Pick and Place Robotics

In X-Y positioning applications, such as automated pick-and-place, rotary encoders provide feedback on two axes of motion in order to determine X-Y coordinates. Electrically, variables such as resolution, output type, channels, voltage, etc., can all be specified to meet the individual application requirements.

Mechanically, shaft, thru-bore and even measuring wheel encoders can be applied, depending what design is most readily integrated into the system. Both incremental and absolute encoders are suitable for X-Y positioning.



ENCODERS TYPICALLY USED TO X-Y POSITIONING APPLICATIONS



Model A58HE



Model 755A



Model A58HB



Model 15T



Model 260



Model A58SB



Model A25SB



Model 858



Model 58TF

... and more.

Draw Wire Solutions

NEW LCX Series draw wire units work with BEPC encoders to accurately measure position and provide motion feedback in motion control applications. The LCX Series of Draw Wire solutions is manufactured for BEPC/EPC by our German technology partner and offers wire lengths up to 42.5 metres.

The LCX is available in 3 housing sizes:

- The LCX80 comes in an 80 mm casing and offers 1, 2 and 3 metre wire length options
- The LCX120 comes in a 120 mm casing and offers 4 or 5 metre wire length option
- The LCX135 comes in a 135 mm casing and offers wire lengths from 6 m to 42.5 metres

| LCX80 | LCX120 | LCX135 |
|--|--|--|
|  |  |  |

The LCX Series draw wire units work with encoders that have a clamping flange that is 36 mm in diameter, and a shaft that is 10 mm in diameter and 20 mm in length. Installation is quick and simple with these BEPC encoders:

Model A58S An Absolute Encoder that offers both EtherCAT® and PROFINET® communication protocols



Model A58SB Bus Absolute Encoder



Model 858S A stainless steel incremental encoder



British Encoder Products

Expedite and Express Delivery.



On occasion, you may find that your time requirement for an encoder exceeds our industry-leading standard lead delivery terms. Fortunately, British Encoder Products Company is committed to doing everything in our power to ensure our products arrive in the shortest time possible. We have developed the following Expedite options for your benefit.

Standard Lead Time of One Working Week

See COMMENTS below for important considerations before placing your order.

| Options | Service | Cut Off (GMT) | Cost |
|----------|--------------------------------|---------------|--------|
| Expedite | 24 Hour Same Day Ex-Works | 09.30 | £60.00 |
| Express | Ships Within 48 Hours Ex-Works | 13.00 | £40.00 |

Expedite :- 24 Hour build = £60.00 Ex-Works - providing we receive your order before 09:30.

Express :- 48 Hour build = £40.00 Ex-Works - providing we receive your order before 13.00.

Provisions

- 1) The above charges apply to 1 Unit orders only, and any additional encoders will incur an additional £50 charge per unit for Expedite and £25 charge per unit for Express.
- 2) **Expedite availability is limited** and is provided on a first-come-first-served basis. Earlier is better.
- 3) **Orders must be received via FAX** at +44(0)1978262101 or **EMAIL** at sales@encoder.co.uk by the stated cut-off time.
- 4) **Certain configurations are not eligible** for same day Expedite due to minimum build time. These include disc resolutions above 3000 PPR, certain SPEC offerings and other products. These configurations may be available on the Express 24/48 Hours Service. Always confirm at the time of order.
- 5) **Always confirm Expedite** requests at the time of order with BEPc customer service.
- 6) **Hours of operation: Monday to Friday 08:00 to 16.30 GMT**



Encoder solutions for a world in motion



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Fax: +86 756 336 3573
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Web: www.asiaencoder.com

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Superior Design



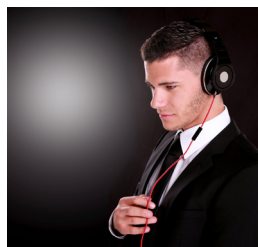
Exceptional Value



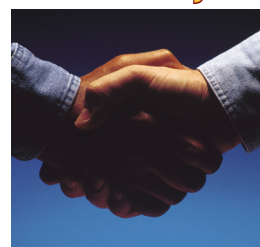
Fast Delivery



Customer Service



3 Year Warranty



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