



BlueCoder Products



BLUE CODER
High-Resolution Encoders

Blue Enhanced High Definition Technology

Higher Resolution



Higher Reliability



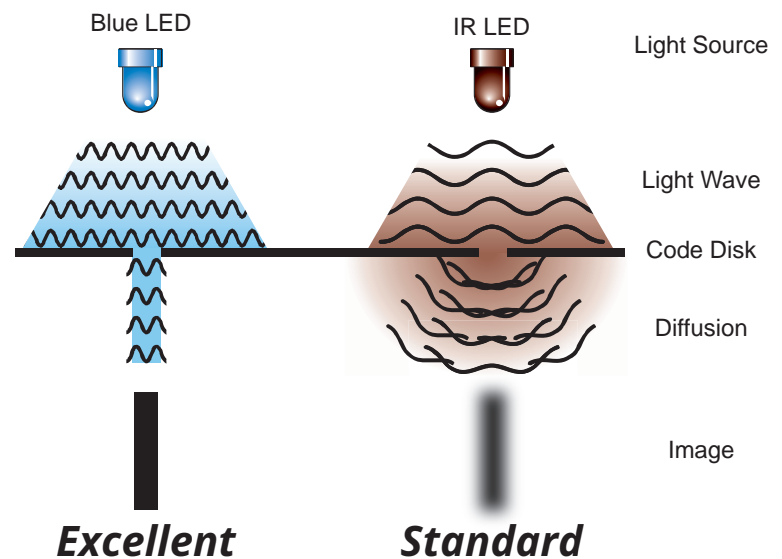
Higher Speed

BlueCoder

is a new optical incremental encoder that takes advantage of the benefits of short wavelength light. Blue light reduces diffraction effects as it interacts with the slots of a code disk and also takes advantage of modern semiconductor processes with small shallow structures. Coupled with the excellent temperature-stability of blue LEDs, **BlueCoder** resolution, accuracy and stability is unmatched.

- High-Definition blue-light phased array technology
- Compensated blue-light source
- Wide operating voltage 4.5Vdc - 30Vdc
- High resolution up 10,000 CPR
- Unbreakable code disk
- Heavy duty shielded ball bearings

These encoders are designed for demanding factory floor environments and make them a great choice for long-term operation in continuous duty applications.



Blue light exhibits less diffraction at the same slot width compared to higher wavelengths, resulting in sharper imaging.

BlueCoder Shaft Encoders directly couple to a device shaft and generate a specific pulse output for each revolution. Select from a variety body sizes and styles. Multiple face mounting options and connectors are available.

Model Selection

Model	Shaft	Output Type	CPR	Output Circuit	Connector	Housing
RB20	3/8", 5/16", 1/4", .187", 4mm, 6mm, or 8mm	single, quad AB, or quad AB with Z	up to 10,000	Push-pull, open collector with or without pull-up and differential line driver (5Vdc out optional)	6-pin or 8-pin 16mm Din., 4-pin M12 *10ft. attached shielded cable is standard	Size 20 2" dia.x1.75" IP65 seal
RBL	3/8", 1/2", 5/8", 8mm, or 10mm	single, quad AB, or quad AB with Z	up to 10,000	Push-pull, open collector with or without pull-up and differential line driver (5Vdc out optional)	5-pin,6-pin, or 10-pin MS	Size 30 Heavy Duty 3" dia.x2 3/8" IP50 seal
RBS	5/16", 1/4", 1/2", and more	single, quad AB, or quad AB with Z	up to 10,000	Push-pull, open collector with or without pull-up and differential line driver (5Vdc out optional)	6-pin or 10-pin MS	2.25"cube Ultra Rugged IP50 seal



BlueCoder Wheeled Encoders ride directly on moving material using a wheel. Wheel tread has a high coefficient of friction and a very low starting torque resulting in virtually no slippage on the belt. Wheels are designed to a specific circumference and are precision ground to exacting tolerances and NIST standards; versus low tolerance generic rollers whose circumference is not matched to the measuring application. Select from a variety of body sizes, single/dual wheel construction and wheel diameters and types.

For Complete Listing Visit:
www.PhotocraftEncoders.com

Model	Output Type	CPR	Output Circuit	Connector	Measuring Wheel	Housing
RB21	single, quad AB, or quad AB with Z	up to 10,000	Push-pull, open collector with or without pull-up and differential line driver (5Vdc out optional)	6-pin or 8-pin 16mm Din. 4-pin M12 *10ft. attached shielded cable is standard	8" & 12", 20cm & 30cm circumference urethane tread. Wide width and replaceable o-ring variants	Size 20 2" dia.x1.75" IP65 seal
RB22	single, quad AB, or quad AB with Z	up to 10,000	Push-pull, open collector with or without pull-up and differential line driver (5Vdc out optional)	6-pin or 8-pin 16mm Din. 4-pin M12 *10ft. attached shielded cable is standard	8" & 12", 20cm & 30cm circumference urethane tread. Wide width and replaceable o-ring variants	Size 20 2" dia.x1.75" IP65 seal
RBH	single, quad AB, or quad AB with Z	up to 10,000	Push-pull, open collector with or without pull-up and differential line driver (5Vdc out optional)	3-pin, 6-pin, or 10-pin MS. 4-pin M12. 6-pin or 8-pin 16mm Din	8" & 12", 20cm & 30cm circumference urethane tread. Wide width and replaceable o-ring variants	Size 30 Heavy Duty 3" dia.x2 3/8" IP50 seal



BlueCoder Hallow Shaft Encoders are designed with either a through-bore or blind-bored shaft which mounts to a rotating shaft. They "float" on the shaft eliminating the need for a shaft-to-shaft coupling and mounting adapter, saving space and cost. A tether or flexible mounting bracket prevents the encoder from turning and absorbs shaft-to-shaft misalignment increasing bearing life.

Model	Output Type	CPR	Output Circuit	Connector	Bore Hole	Housing
HSB20	single, quad AB, or quad AB with Z	up to 10,000	Push-pull, open collector with or without pull-up and differential line driver (5Vdc out optional)	6-pin or 8-pin 16mm Din. 4-pin M12 *10ft. attached shielded cable is standard	1/4", 5/16", 3/8", 1/2", 5/8", 6mm, 8mm, 10mm, 12mm, 16mm,	Size 20 2" dia.x1.75" IP65 seal





About Us...

TRI-TRONICS® Co. Inc., together with Photocraft, offers a wide range of rotary encoders for industrial automation and motion feedback control.

For 60 years we have provided innovative solutions to real-world applications. Our qualified team of engineers are always working on new and innovated ideas.

The performance and ruggedness of our encoders products sets us apart from the competition in the market. In a world where equipment must run faster and produce more, performance is everything. Our company's principles and philosophy are built on trust that is earned. We care about your success.

Our manufacturing facility is located in Tampa, Florida, in close proximity to Tampa International Airport. We cordially invite you to schedule a visit to our facility on your next business or vacation trip to Florida. We welcome the opportunity to meet our customers in person!

