# +++ Press Release +++

###### POSITAL Precision Magnetic Encoders – Available with BiSS-C Communications Interface

**Hamilton, New Jersey, April 2021** – POSITAL’s IXARC high-precision magnetic absolute rotary encoders will be available with a BiSS-C interface. Encoders with this interface are ideal for commutation and position feedback on BLDC servo motors and are also an excellent fit for motion control applications, such as medical equipment. They feature robust design, 17-bit resolution and excellent dynamic response (up to 12,000 RPM).

POSITAL’s IXARC encoders with the BiSS-C interface are based on the company’s popular kit (modular) encoders. Multiturn variants feature a 32-bit rotation measurement range (over two billion revolutions). The rotation counter is self-powered, using Wiegand energy-harvesting technology, eliminating the need for backup batteries or gear drive systems. This mechanical simplicity helps make the IXARC encoders very price efficient.

Like other POSITAL encoders, the BiSS-C enabled products are available in a wide range of mechanical configurations, with multiple options for housing and flanges, shaft type, and level of environmental protection. They are available with a 36 mm housing, enabling them to fit into the same mounting footprint as popular Size 15 resolvers. However, unlike resolvers, IXARC encoders offer multiturn absolute digital position measurements, eliminating the need for an A/D converter.

BiSS-C (Bidirectional/Serial/Synchronous-Continuous) is a high performance interface that supports real-time communications between control devices and sensors/actuators in robots and other automation systems. The interface also enables the controller to set operational parameters in slave devices. Communications is based on point-to-point RS-422 connections with the possibility of daisy-chaining several devices together for more efficient cable layouts. The BiSS C interface has the same physical properties as the older SSI interface, simplifying upgrades. BiSS interfaces are based on non-proprietary standards, with support and licenses available from the non-profit BiSS Association e.V. at no charge.

Finding the right IXARC sensor for a particular application is straightforward. The web site [www.posital.com](http://www.posital.com) provides a powerful product finder tool that enables a customer to specify the product features required for each application and then quickly select the best available products.

**About FRABA and POSITAL**

POSITAL is a supplier of advanced industrial position sensors used in a wide variety of motion control and safety systems. The company is also an innovator in product design and manufacturing processes and a pioneer of Industry 4.0 (Industrial Internet of Things/IIoT), offering customers the benefits of built-to-order products combined with the price advantages of mass-production. POSITAL is a member of the international FRABA group, whose history dates back to 1918, when its predecessor, **Fr**anz **Ba**umgartner elektrische Apparate GmbH, was established in Cologne, Germany to manufacture relays. Since then, the company has played a trendsetting role in the development of rotary encoders, inclinometers and other sensor products. POSITAL has a global reach with subsidiaries in Europe, North America and Asia – and sales and distribution partners around the world.

Graphic:

Press Photo – jpg format

Caption: IXARC rotary encoders with BiSS-C Interface

###### Further Information

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