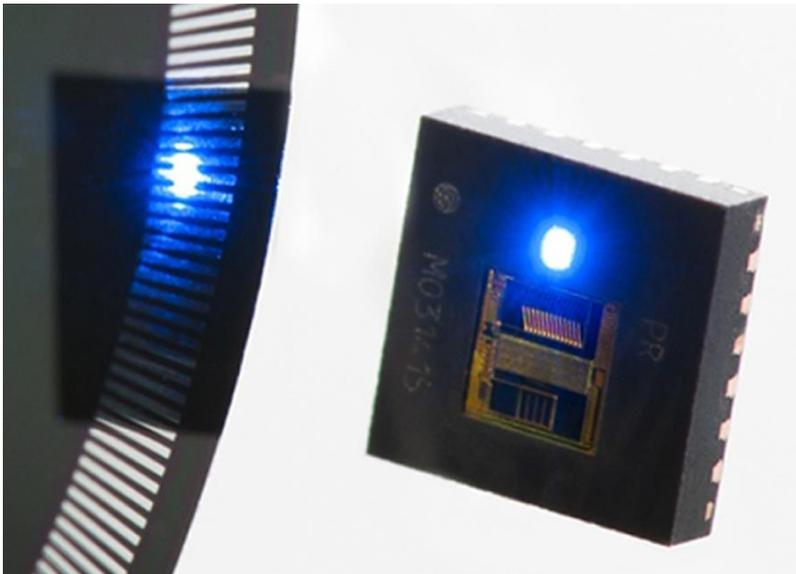


iC-PR Series: EncoderBlue® Goes Reflective

Lensless Reflective Opto-Encoders from iC-Haus



Picture: iC-PR EncoderBlue® device in optoQFN24 4x4 package for reflective encoders

Blue, reflective, and lensless — that's how iC-Haus introduces its new encoder ICs to the market at the SPS/IPC Drives Show. Specifically designed for flat encoders, with multiple diameters and line counts, iC-PR reflective encoders feature dual analog/digital output options, selectable interpolation factors, and high resolution. The new iC-PR encoder chips combine optimized reflective scanning with a blue LED and output signal conditioning in one flat 4 x 4 mm² optoQFN package, generating low-jitter encoder quadrature signals with index and analog sine/cosine signals directly. Index gating options and interpolation factor are easily selectable via pin programming. Output frequencies up to 1.6 MHz enable motor speed control of 20,000 rpm. The small scanning area and blue LED reduce power consumption of the reflective encoder module.

iC-PR devices control LED current to compensate for aging and temperature effects; lensless operation simplifies SMD mounting and increases the operating temperature range to -40 to 100°C. iC-PR devices are ideal for industrial applications like stepper motors, electrical actuators and drives, and miniaturized motion control systems in general. Compact iC-PR encoders also provide a robust solution in commercial applications. iC-Haus provides evaluation boards and matched reflective code discs for easy evaluation in your application.

**iC-Haus News Release iC-PR Series
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Introducing iC-Haus

iC-Haus GmbH is a leading independent German manufacturer of standard iCs (ASSP) and customized ASiC semiconductor solutions with worldwide representation. The company has been active in the design, production, and sales of application-specific iCs for industrial, automotive, and medical applications for more than 30 years.

The iC-Haus cell libraries in CMOS, bipolar, and BCD technologies are specifically suited to realize the design of sensor, laser/opto, and actuator ASiCs, amongst others. The iCs are assembled in standard plastic packages or using the iC-Haus chip-on-board technology to manufacture complete microsystems, multichip modules, and optoBGA/QFN in conjunction with sensors.

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