First maxon motor of its kind. Brushless DC motor with hall sensors, absolute encoder and incremental outputs.

For fine motor position control across multiple generation brushless motor controller models, maxon motor Australia has supplied the first of its kind maxon EC-max brushless DC motor with three modes of feedback.

The new micromotor encoder 16 Easy Absolute 16mm x 9mm offers high resolution motor feedback from a tiny package. Additionally it offers 4,096 counts per turn incremental outputs with line driver channels and an index pulse. The Absolute output is available in the choice of Binary BiSS-C or Gray Symmetric SSI. The encoders use an interpolated hall sensor angle measurement system to generate the incremental quadrature output signals according to EIA-422 with 20mA maximum current draw and ESD protections built in. The angle value zero of the encoder is factory aligned with the BLDC motor zero point and the encoder is welded in place on the rear flange of the motor. When fitted with a multi pole brushless DC motor the encoder can still show the angle values zero once per mechanical turn and the angle zero is identical to the index position. The motor itself also contains three hall sensors for commutation purposes. An adaptor is available to convert the single ended clock and data signals of the absolute encoder into TIA/EIA RS422 compliant differential clock and data lines.

For special configurations of this unique feedback solution with other maxon motor types contact maxon motor Australia Sydney office on +61 2 9457 7477.

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