New motion controller design for speed and position control of DC motors.

Maxon motor's new motion controller for DC motors is very small indeed. Just 17g and 39mmx54mm the position controller can also control both brushed DC motors and brushless DC motors (BLDC motors).

Available on request is the newest version of the successful EPOS DC motor control modules, the EPOS4 24/1.5. The tiny dimensions of the controller belie it's capabilities. It retains the full motion control capabilities of much larger controllers including RS232, USB, CanOpen and EtherCAT communications onboard or via adaptor modules. Feedback from the DC or BLDC motor is achieved using either hall sensors, incremental encoders or absolute encoders. It can be used with current / torque control, closed loop speed control and position control. Designed primarily for use on 12V or 24V systems the controller is based on a very high PWM frequency of 100kHz for adaption with highly dynamic ironless and coreless DC motors that have low inductance levels. Current limiting, overcurrent, over temperature, under voltage, overvoltage and short cct protective functions are all included as standard. Free setup software for auto configuration and tuning of motors is supplied along with programming examples for PC, PLC, Labview and Linux environments. IEC61800-5-2 based Safe Torque Off (STO) also makes the controller suitable for use in critical applications such as manufacturing processes and collaborative robotics.

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