



Overview

- Controls stepping motor output stages
- High-speed operation
- Flexible configuration options
- Robust performance

Technical Specifications

◦ Encoder Interface

- **Counter Resolution:** 24 bit
- **Counter Modes:** 1-, 2-, 4-edge evaluation
- **Encoder Frequency:** Max. 1 MHz
- **Inputs:** HEDL (HP/AVAGO interface)/RS422
- **Galvanic Isolation from System:** 500 V
- **Encoder Power Supply:** +5 V or +15 V selectable with jumper

◦ Motor Controller Interface

- **Stepper Frequency:** Max. 150 kHz
- **Number of Steps (Range):** 1 to 16,777,215
- **Acceleration Type:** Linear, $\sin^2$, or parabolic
- **Acceleration Time/Braking Time:** 8 ms to 131 s
- **Output Voltage:** Low: 0 to 2 V, high: 3 to 34 V, $I_{max} = 10$ mA
- **Input Voltage:** Low: 0 to 3 V, high: 4 to 30 V
- **Voltage Range:** 18 to 34 VDC
- **Current Consumption Internal:** Normally 400 mA at 24 VDC + Σ current consumption of the encoders and sensors
- **Galvanic Isolation from System:** 500 V
- **Reverse Polarity Protection:** Yes

◦ Approvals / Certificates

- **General:** CE, cULus, CCC

◦ Ambient Conditions

- **Operating Temperature:** 0 to +60 °C
- **Relative Humidity (Operation):** 5 to 95 % without condensation
- **Storage Temperature:** -40 to +85 °C
- **Relative Humidity (Storage):** 5 to 95 % without condensation
- **Pollution Degree:** 2 (without condensation; according to IEC 60664-1)

◦ Dimensions:

- **Size:** 2.5" x 4.7" x 2.5" (6.3 cm x 11.9 cm x 6.3 cm)
- **Weight:** 0 lbs 9.8 oz (0.3 kg)