Linear Actuator With an Integral Connector Option

Haydon Kerk Motion Solutions, Inc., a premier manufacturer of engineered linear motion products, introduces the motorized SplineRail Linear Actuator with an integrated connector. Offered alone or with a harness assembly, the connector is RoHS compliant and features a positive latch for high-connection integrity. The integral connector is rated for up to 3 amps, and the mating connector will handle a range of wire gauges from 28 to 22 gauge. This configuration is ideal for users who want to plug directly into a preexisting wire harness.
The SplineRail combines mechanical drive, guidance, and a stepper motor actuator in a single, compact component. The system uses a Size 17 single stack or double stack stepper motor with either a 1.8 or 0.9 degree motor step angle. Screw leads are available from 0.05” to 1.2” per revolution, providing a wide range of performance profiles that include self-locking threads, which can support a load without external power or breaks.

The SplineRail technology utilizes a Kerk precision rolled lead screw, supported by bearings and contained within a concentric aluminum spline, driving an integrated Kerkite composite polymer nut/bushing. The extruded aluminum spline offers excellent torsional stability. KerKote TFE coating and self-lubricating Kerkite nut/bushing material ensure long life and zero maintenance.

Typical applications include pick-and-place mechanisms and robotic assemblies in life sciences instrumentation, semiconductor equipment, business machines, packaging and assembly, and a wide range of factory automation applications. Combined with Haydon Kerk’s broad offering of motion control components, the programmable SplineRail can be used to create custom systems for many types of motion.

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