

HIGH TORQUE ACTUATOR

Rotary Actuator with Internal Gearbox

A rotary actuator that is capable of up to 2 Nm (17.7 in-lbs) continuous and 3.3 Nm (29.2 in-lbs) boost torque at 2.5 RPM. This actuator provides higher torque and longer life than comparable actuators on the market allowing for actuation of valves, dampers, mechanisms, or other automotive applications. A physical internal rotary sensor provides absolute position feedback, which is especially desirable for applications where accurate real-time position data is important for critical system-level protection and fail-safe functionality.

The actuator includes either a stepper or BLDC motor depending on application requirements. A gearbox is paired with the motor to generate and transmit torque. The actuator features an on-board controller which includes LIN communication, on-board rotary position sensing, position control, bootloader capability, and diagnostics. Gear drive is designed to minimize hold power. Flexible mounting and output options are available. Fail-safe position of the output shaft can be communicated in the event of communication loss or component failure.

*Technical Data:

Rotation Range: 355° standard

Torque (nominal): ±2Nm Torque (boost^): ±3.3Nm

Speed: 4RPM

Current (continuous): <1A Current (boost^): <1.5A

NVH: <50dbA

LIN Communication: LIN protocol 2.1 version, Baud rate 19.2 kbs

Internal Rotary Sensor: ±1.5% accuracy

^Duty cycle at Boost Torque Level expected to be <20%

*Operating Limits:

Supply voltage nominal: 12 ± 1 VDC Supply voltage range: 9 to 16 VDC Temperature: -40°C to 85°C Ingress Protection: IP6K7

*Contact Husco engineering for customized performance, sensing, mounting, communication, diagnostics, ingress protection, or connectors,



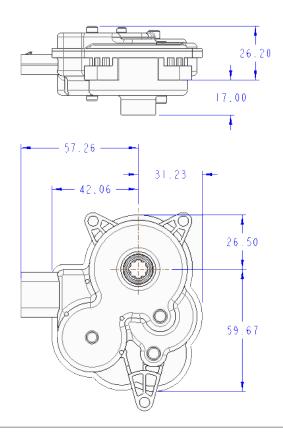




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Packaging Size



Partner with Husco

Husco develops comprehensive automotive solutions that drive performance, including systems and components for electric, hybrid and internal combustion engine vehicles.

Husco is a global company with facilities around the world. Options for manufacturing locations include North America, Europe, and Asia.



