

Honeywell Slate low torque actuator

The SLATE Low Torque Actuator series includes commercial- and industrial-grade 1/4-turn actuators available in 50 and 150 in/lb models with highly repeatable position accuracy designed specifically to integrate with the SLATE system

Overview



The SLATE Low Torque Actuator series includes commercial- and industrial-grade 1/4-turn actuators available in 50 and 150 in/lb models with highly repeatable position accuracy designed specifically to integrate with the SLATE system. This series is well suited for the precise control of air and gas flow and can operate in a wide range of temperatures and environmental conditions. Offered in two different configuration options:

- NEMA 1 rated, operating in a temperature range of -18 to 158 °F (-28 to 70 °C) with 450 positions over a 90° span
- NEMA 4 rated, operating in a temperature range of -40 to 158 °F (-40 to 70 °C) with 900 positions over a 90° span
- Field-reversible clockwise and counterclockwise rotation operation
- Internal temperature, valve status, health diagnostics, and error codes reporting
- Robust, heavy-duty construction, continuous duty cycle-rated
- Closed loop position control via Modbus RS-485 communications as an input to the SLATE Fuel Air Ratio
- Module, part R8001C6001
- Dual 1/2-in knockout conduit connections
- 1/2-in keyed output shaft with a 1/8-in square key
- Die-cast aluminum base with high-impact resistant, reinforced plastic cover
- Meets UL353 Safety for Limit Controls
- Meets UL1998 when used with R8001C6001 SLATE Fuel Air Ratio Module

Specifications

OVERVIEW

Models

- Commercial Models - R8001M1050 (50 in-lb, NEMA 1), R8001M1150 (150 in-lb, NEMA 1)
- Industrial Models - R8001M4050 (50 in-lb, NEMA 4), R8001M4150 (150 in-lb, NEMA 4)

OPERATING/PROCESS TEMPERATURE RANGES

Operating Temperature Range

- Commercial: -18 to 158 deg F (-28 to 70 deg C)
- Industrial: -40 to 158 deg F (-40 to 70 deg C)



COMMUNICATION & INTERFACES

Communication Protocols

- Modbus RS-485 (non-isolated commercial/isolated industrial)
- Modbus RS-485 (non-isolated on commercial models; isolated on industrial models)

APPLICATIONS & COMPATIBILITY

Valve Compatibility

- Maxon CV Series; Honeywell V51E and V5197A valve series (via dedicated mounting kits)
- Maxon CV, Honeywell V51E, Honeywell V5197A via kits

Applications

- Precise control of air and gas flow; designed to integrate with the SLATE Fuel Air Ratio system

TEMPERATURE CONTROL/MEASUREMENT

Temperature Sensors

- Commercial: Alarm-only
- Industrial: Alarm + real-time data

STORAGE/TRANSPORT TEMPERATURES

Storage Temperature

- -40 to +176 deg F (-40 to +80 deg C)

CONNECTIONS & INTERFACES

Conduit Connections

- Dual 1/2 in knockouts

ACTUATION, VALVE & MOTION CONTROL SPECIFICATIONS

Rotation Direction

- Field-reversible CW/CCW (ships CCW)

Torque Rating

- 50 in-lb or 150 in-lb

Rotation Span

- 90 deg usable (plus ±5 deg adjustment)

Output Shaft

- 1/2 in keyed shaft, 1/8 in square key

OPERATING LIMITS, DURABILITY & LIFECYCLE

Vibration Rating

- 5 to 30 Hz at 0.012 in p-p; 30 to 300 Hz at 0.6G; 1.1G endurance

ENVIRONMENTAL CONDITIONS

Enclosure Rating

- NEMA 1 (commercial), NEMA 4 (industrial)

Humidity Range

- 0 to 99% RH non-condensing (commercial)

CONTROL, LOGIC & FUNCTIONAL BEHAVIOR

Control Deadband

- Commercial ±0.2 deg



- Industrial ±0.1 deg

ELECTRICAL SPECIFICATIONS

Supply Voltage

- 24 VDC +10/-20%

ALARMS, STATUS & DIAGNOSTICS

LED Indicator

- Green: Status/Alarms
- Yellow: RS-485 Comms

CONTROL, SOFTWARE & USER INTERFACE SPECIFICATIONS

Data Logging

- Industrial: Enhanced logging; Commercial: None

MEASUREMENT, ACCURACY & SENSING

Resolutions

- Commercial: 450 positions (0.2 deg)
- Industrial: 900 positions (0.1 deg) over 90 deg span

PROCESSING & PERFORMANCE METRICS

Duty Cycle

- 100% continuous duty

STANDARDS & CERTIFICATIONS

Approvals

- UL353, UL1998 (with Fuel Air Ratio Module), CE (GAD), UKCA

Filters

▼ CATEGORY

☒ Base Part

☒ Spare Part

▼ TYPE

☒ Low Torque Actuator

☒ Mounting Bracket

☒ Mounting Kit

🔍 Search

Part Number	50123928-001
Description	LTA MOUNTING KIT TO MAXON CV VALVES
Category	Spare Part
Type	Mounting Kit
	Order Online

Part Number	50124386-001
Description	LTA V51/5197 MOUNTING BRACKETS
Category	Spare Part
Type	Mounting Bracket
	Order Online

Part Number	50195139-001
Description	KIT, SLATE LTA -V51E VLV, 1.5" & 2"
Category	-
Type	-
	Order Online
Part Number	50195140-001
Description	KIT, SLATE LTA -V51E VLV, 2.5", 3" & 4"
Category	-
Type	-
	Order Online
Part Number	50195141-001
Description	KIT, SLATE LTA -ECLIPSE BV VLV, .5"-2.5"
Category	-
Type	-
	Order Online
Part Number	50195142-001
Description	KIT, SLATE LTA -ECLIPSE BV VLV, 3" & 4"
Category	-
Type	-
	Order Online
Part Number	R8001M1050
Description	SLATE COMM 50 IN/LB ACTUATOR
Category	Base Part
Type	Low Torque Actuator
	Order Online
Part Number	R8001M1150
Description	SLATE COMM 150 IN/LB ACTUATOR
Category	Base Part
Type	Low Torque Actuator
	Order Online
Part Number	R8001M4050
Description	SLATE INDSTRL 50 IN/LB ACTUATOR
Category	Base Part
Type	Low Torque Actuator
	Order Online
Part Number	R8001M4150
Description	SLATE INDSTRL 150 IN/LB ACTUATOR
Category	Base Part
Type	Low Torque Actuator
	Order Online

Rows

10 ▾

Product Number



Please sign in to view part numbers available for purchase based on your account

Sign In

50123928-001

LTA MOUNTING KIT TO MAXON CV VALVES

50123928-001

LTA MOUNTING KIT TO MAXON CV VALVES

50124386-001

LTA V51/5197 MOUNTING BRACKETS

50124386-001

LTA V51/5197 MOUNTING BRACKETS

50195139-001

KIT, SLATE LTA -V51E VLV, 1.5" & 2"

50195139-001

KIT, SLATE LTA -V51E VLV, 1.5" & 2"

50195140-001

KIT, SLATE LTA -V51E VLV, 2.5", 3" & 4"

50195140-001

KIT, SLATE LTA -V51E VLV, 2.5", 3" & 4"

50195141-001

KIT, SLATE LTA -ECLIPSE BV VLV, .5"-2.5"

50195141-001

KIT, SLATE LTA -ECLIPSE BV VLV, .5"-2.5"

50195142-001

KIT, SLATE LTA -ECLIPSE BV VLV, 3" & 4"

50195142-001

KIT, SLATE LTA -ECLIPSE BV VLV, 3" & 4"

R8001M1050

SLATE COMM 50 IN/LB ACTUATOR

R8001M1050

SLATE COMM 50 IN/LB ACTUATOR

R8001M1150

SLATE COMM 150 IN/LB ACTUATOR

R8001M1150

SLATE COMM 150 IN/LB ACTUATOR

R8001M4050

SLATE INDSTRL 50 IN/LB ACTUATOR

R8001M4050

SLATE INDSTRL 50 IN/LB ACTUATOR

R8001M4150

SLATE INDSTRL 150 IN/LB ACTUATOR

R8001M4150

SLATE INDSTRL 150 IN/LB ACTUATOR

