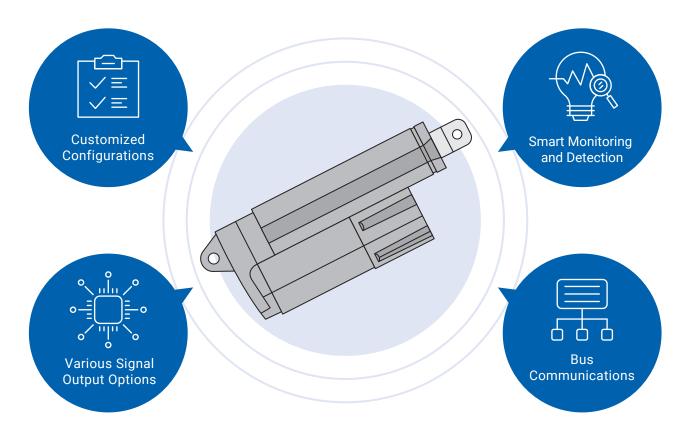






What is T-Smart

A T-Smart actuator is an actuator incorporating an integrated MCU-based PCB. This allows enhanced control functionalities internally without an external control box and relays, making it very easy to install.



Why You Need the T-Smart Solution



Simple Installation



Increased
Machine Efficiency



Time Savings



Low Maintenance

T-Smart Linear Actuator Series

MA2



MA4



VN1



What Can T-Smart Do

Various Signal Output Options

- · End of stroke signal
- · Hall
- · Hall-POT
- · PWM

Bus Communications

- · CAN Bus
- · LIN Bus
- · Modbus

Customized Configurations



Speed

The actuator is preconfigured to 100 percent speed. An H-bridge motor drive circuit can adjust this to fulfill the PWM speed control. The recommended value is between 60-100 percent speed, as lower values could reduce actuator performance.



Synchronization Movement

With the T-Smart solution, you can easily set up to 8 actuators in synchronous movement. Without worrying about different loads and complicated cabling, the actuators stay precisely aligned when moving.



Deceleration before End of Stroke

A T-Smart actuator can set a distance to begin decelerating before the end of the stroke (0~20mm). The deceleration ensures that the actuator reaches zero velocity at the point of contact with the end of the stroke, preventing any impact loading at the end of the stroke.



Monitoring

- · Speed
- · Current
- · Voltage
- Position
- · Operation cycle

Detections

- · Over-current protection
- · Voltage protection
- · High-temperature protection
- · Low-temperature start-up compensation
- · Electronic clutch

Error

- · HALL error
- · EOS error





A virtual stroke limit can be set in the middle of the stroke, in extending or retracting direction, once the virtual stroke limit has been set up, the actuator will stop and won't surpass the designated position.



Soft Start and Stop

With soft start and soft stop, the actuator slowly accelerates to full speed or slows down from full speed. This helps to provide smooth operation of the application.



Current Limit

Apart from using the default current limit value for overcurrent protection, the current limit value can also be down-adjusted to let overcurrent protection occur in lighter applications. And it could set up different values for extending and retracting direction.

For any questions about our T-Smart actuator solutions, please feel free to contact your local TiMOTION office.

Taiwan & China

+886 2 2219 6633 sales.tw@timotion.com

Australia

+61 3 8725 0331 salesteam.au@timotion.com

Europe

+33 (0)1 74 82 50 51 sales.eu@timotion.com

Japan

+81 6 6713 1188 sales.jp@timotion.com

USA

Tel (704) 708 6924 sales.us@timotion.com

Korea

+82 31 745 1060 sales@timotion.co.kr

