



AVL THROTTLE ACTUATOR COMPACT™

The AVL Throttle Actuator Compact is a Linear Rotary Screw (LRS) type throttle actuator used for controlling the mechanical throttle on an engine.

The Linear Rotary Screw type technology gives the Throttle Actuator excellent speed, force, and accuracy capabilities. The integrated controller allows for improved stability and accommodates a large input voltage range. The integrated mechanical Flex-ball connection to the throttle and a pre-defined electrical connection to the automation system make it an excellent solution for engine control.

The hardware component of the AVL Throttle Actuator Compact consists of the actuator with a push-pull cable and an integrated controller. All of the required power components and motion processors are contained in the actuator housing.

Benefits at a Glance

- RS 485 connections for advanced configuration.
- Integrated LED indicators for actuator status.
- No external controller required
- No tuning required for different load ranges connected

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AVL, the technology leader for automotive testing systems provides AVL COMPACT™, an out-of-the-box easy to install and cost effective solution for the engine development, component testing and performance market.

Ready. Set. Go.

Technical Data

Throttle Actuator Design	Linear, Planetary lead screw design
Max force	890 N
Linear stroke	76.2 mm
Speed	1000 mm per second (full stroke in 0.076 seconds)
Flexball Cable	l = 1.5 meter, 101 mm bend radius, ball cage PTFE
Certification	UL and CE
Input Voltage	100 to 240 Volts AC nominal, single phase, speed specifications based on 240V line voltage
I/O configuration	8 digital-in, 4 digital-out, 1 analog-in (0-10V or +/- 10V, position demand), 1 analog-out (position feedback)
Serial interface	Optically isolated RS485, Modbus RTU protocol, max. baud rate 38.4k, used for advanced configuration purpose
Dimensions (width x height x length)	140 mm x 182 mm x 418,6 mm
Maximum Operating temperature range	-20° to 65 °C
Degree of protection	IP 54

For further information please contact:

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