

The new "intelligent" in-line Actuator

In-line actuators with integrated controller (easyE-i) enable the use of MODBUS RTU on an RS485 serial communication. One of the most powerful standards. The easyE-i options provide everything from simple maintenance, control and installation, to a wide range of customizable settings and feedback that will help tailor the movement solution to your specific needs and application.

Internal stroke limitation

i-Connect-Box DIN

Plug & Play solution with i-Connect-Box /

Integrated controller functions:

- Adjustable start / stop ramp
- Adjustable current limit
- Internal temperature protection
- Industrial interface MODBUS RTU on RS485

Specifications:

- Operation: 20 °C to + 70 °C; Storage: 40 °C to + 70 °C Temperature: Cable specification: Ø 4,8mm cable for easyE-35i (2 x AWG22 + 6 x AWG28), also available for Harsh Environment version Ø 6,8mm cable for easyE-50i/60i (2x AWG16 + 6 x AWG26), also available for Harsh Environment version, easyE-35i on request
- Bending Radius: 15 x cable diameter

Cable length for easyE-i-line with 12 VDC motor is limited to 5m, 24 VDC motor is limited to 9m. The IP classification covers the actuator including cable and cable gland. Connector (if mounted) or open ends are not part of the certification.

For other mechanical data like forces, speed and so on please refer to standard easyE-35/50/60 datasheet.

Configurations:

Configurations	SDB (S2-1) Single Actuator Direction Control Basic IO	SDH (S2-1+hall) Single Actuator Direction Control Hall Output	SDP (S2-1+pos.out) Single Actuator Direction Control Position Output	SPP (S2-2) Single Actuator Position Control Position Output	SBS (bus based) Single Actuator BUS Control Status / Control IO	MDO (synchronization) Multiple Actuators Direction Control Override
Configuration letter	А	В	С	D	E	F
Voltage 12/24 VDC	✓	✓	√	✓	✓	√
Direction in/out	√	√	1	-	-	√
5/10 VDC ref. output	-	-	-	✓	-	-
Stop input	-	-	-	-	√	-
Override input	-	-	-	-	-	√
Error output	-	-	-	-	√	-
Analog position input	-	-	-	√	-	-
Analog position output	-	-	√	-	-	-
Stop input / Pos. OK output	-	-	-	√	-	-
Hall Output	-	✓	-	-	-	-

Electrical Wiring:

	Configurations	SDB	SDH	SDP	SPP	SBS	MDO
	Key letter	А	В	С	D	E	F
	Color						
	Yellow (2)	RS485 TX +A	RS485 TX +A	RS485 TX +A	RS485 TX +A	RS485 TX +A	RS485 TX +A
View from opposite wire-side	Green (1)	RS485 RX -B	RS485 RX -B	RS485 RX -B	RS485 RX -B	RS485 RX -B	RS485 RX -B
	Orange (3)	GND Signal	Hall B output	GND Signal	GND Signal	GND Signal	GND Signal
	Black (4)	GND Power	GND Power	GND Power	GND Power	GND Power	GND Power
	White (7)	Not used	Hall A output	Position output	5-10V reference	Not used	Override
	Brown (6)	Dir. IN	Dir. IN	Dir. IN	Pos ok/stop input	Error out	Dir. IN
	Blue (5)	Dir. OUT	Dir. OUT	Dir. OUT	Position input	Stop input	Dir. OUT
~	Red (8)	Power 12/24V	Power 12/24V	Power 12/24V	Power 12/24V	Power 12/24V	Power 12/24V

Numbers refers to the 8-pin Molex minifit plug, not screw terminal on i-Connect-Box DIN

Electrical Data

Max. Current load:

easyE- 35i: easyE- 50i :	 24 VDC permanent magnet motor 12 VDC permanent magnet motor 24 VDC permanent magnet motor 25 VDC permanent magnet motor 26 VDC permanent magnet motor 27 A, max. voltage: 28 VDC) 28 VDC permanent magnet motor 29 A, max. voltage: 14 VDC permanent magnet motor
easyE- 60i:	24 VDC permanent magnet motor (max. current: 11,5 A, max. voltage: 28 VDC)
Idle current: Current trip delay PWM frequency: Digital inputs:	Approx. 25 mADC 20 ms 25 kHz Active low
Supply voltage: Serial data line: Communication: Baud rate: Com setup:	12 VDC (min. 12 VDC @ full load, max. 14 VDC) or 24 VDC (min. 24 VDC @ full load, max. 28 VDC) (max. ripple <10% @ full load) RS485 asynchronous, point to point or multi-point, 2 wire half-duplex Modbus RTU 115200 bps 8 Bit, Parity-None, Stop bit -1

Recommendations and warnings

- Always connect easyE-i-line to a power supply that matches the nominal voltage of the actuator, also during update and parameter setting.
- Most switches are active low and to be pulled down to GND (Signal GND) for activation.

Disclaimer

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The flyer is subject to technical alterations and printing

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