



Integrated Controller

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.

Integrated controller functions:

- Adjustable start ramp
- Adjustable stop ramp
- Adjustable current limit
- Industrial interface MODBUS RTU on RS485
- Internal stroke limitation
- Internal heat protection
- Plug & Play solution with iConnect-Box

Specifications:

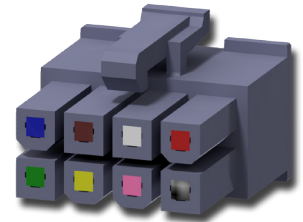
- Extended length (EL): easyE-35i: stroke +170 (C, D, E, F), stroke + 180 (G, H)
easyE-50i: stroke +255 (C, D, E, F), stroke +270 (G, H)
easyE-60i: stroke +373
- Temperature: Operation: - 20 °C to + 70 °C; Storage: - 40 °C to + 70 °C
- Cable specification: Cores: 2 x AWG16 + 6 x AWG 28, Ø = 6,4 mm, black jacket, Molex Mini-Fit Jr. 8 pin or similar.
- Bending Radius: 6 x cable diameter

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



Configuration P/N letter	SDB (S2-1) A	SDH (S2-1+hall) B	SDP (S2-1+pos. out) C	SPP (S2-2) D	SBS (bus based) E	MDO (synchronization) F
Description	Single/Direction/Basic	Single/Direction/Hall	Single/Direction/Position	Single/Position/Position	Single/Bus/Status	Multiple/Direction/Override
1	+12/24VDC	+12/24VDC	+12/24VDC	+12/24VDC	+12/24VDC	+12/24VDC
2	PWR GND	PWR GND	PWR GND	PWR GND	PWR GND	PWR GND
3	RS485A	RS485A	RS485A	RS485A	RS485A	RS485A
4	RS485B	RS485B	RS485B	RS485B	RS485B	RS485B
5	Input: Direction IN	Input: Direction IN	Input: Direction IN	Output: Ref. 5/10VDC	Input: STOP	Input: Direction IN
6	Output: Direction OUT	Input: Direction OUT	Input: Direction OUT	Input: Position (analog)	Output: Error	Input: Direction OUT
7		Output: Hall A	Output: Position (analog)	In/output: STOP/Pos. OK		Input: Override
8		Output: Hall B				

Electrical Wiring



SDB	SDH	SDP	SPP	SBS	MDO	
		+ 24 VDC. (max 28 VDC, min at 1 meter cable 18 VDC)				
		+12 VDC. (max 14 VDC, min at 1 meter cable 10 VDC)				
		GND				
		RS485A+				
		RS485B-				
	Direction IN	Direction IN	Direction IN	Pos in	HW stop	Direction IN
	Direction OUT	Direction OUT	Direction OUT	Pos ok out	Error out	Direction OUT
	Not used	Signal Hall B out	Signal-GND	Signal-GND	Signal-GND	Signal-GND
	Not used	Signal Hall A out	Position voltage out	5-10 VDC ref.	Not used	Override

Electrical Data

- Max. Current load: easyE-35i: 2 ADC @ 24 VDC, 4 ADC @ 12 VDC
easyE-50i: 8 ADC @ 24 VDC, 16 ADC @ 12 VDC
easyE-60i: 16 ADC @ 24 VDC
- Idle current: Approx. 10 mADC
- Current trip delay: 20 ms
- PWM frequency: 25 kHz
- Digital inputs: 'High': $U_{in} = 4 \text{ Vdc} - V_{supply}$; 'Low': $U_{in} = 0 \text{ Vdc} - 1 \text{ Vdc}$
- Supply voltage: 12 VDC (min 10 VDC at 1 meter cable, max 28 VDC) or 24 VDC (min 20 VDC at 1 meter cable, max 14 VDC)
- Serial data line: RS485 asynchronous, point to point or multi-point, 2 wire half-duplex.
- Communications: Modbus RTU
- Bauds rate: 115000 bps
- Com setup: 8 Bit, Parity -None, Stop bit -1

For more information on Modbus RTU please go to <https://modbus.org>
MODBUS over serial line specification and implementation guide V1.0

For other mechanical data please refer to the standard datasheet.

Disclaimer

- Bansbach products are continuously developed, built, and tested for highest requirements and reliability but it is always the responsibility of the customer to validate and test the suitability of our products in a given application and environment.
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