easyE-line



linear in-line actuators



Gear ratio	C*	D	E	F	G	н		
easyE- 35		12/24V	DC power	supply, perr	manent mag	net motor		
Maximum load [N]	120	400	600	900	1600	2200		
Speed at maximum load [mm/s]	33	16	12	7,5	4	3		
	Current at maximum load: 12VDC = 3,6A, 24VDC = 1,8A							
easyE-50		12/24V	DC power	supply, perr	manent mag	gnet motor		
Maximum load [N]	500	1750	2200	3100	4500	4500		
Speed at maximum load [mm/s]	70	20	17	12	6	4		
		С	urrent at max	imum load: 12	2VDC = 16A, 2	24VDC = 8A		
easyE-60		24\	/DC power	supply, peri	manent ma	gnet motor		
Maximum load [N]		1900	4300	6600	8100	10000		
Speed at maximum load [mm/s]		31	14	9	6	5		
			C	Current at max	kimum load: 24	4VDC = 10A		

*only 24V DC power supply

Features:

■ Stroke length: 50, 100, 150, 200, 250, 300, 350, 400, 500 and 750mm (others on request)

■ Cable: easyE-35: 1m, 2X0.65mm² (AWG19), Ø = 4.8mm, black, Molex Mini-Fit Jr. 6 pin

easyE-50: 1m, 2X1.3mm² (AWG16), \emptyset =6.4mm, black, Molex Mini-Fit Jr. 6 pin easyE-60: 1m, 2X1.3mm² (AWG16), \emptyset =6.4mm, black, Molex Mini-Fit Jr. 6 pin

Bending radius: 6x cable diameter

■ Materials: Motor and actuator tube are powder coated steel or stainless steel

Piston rod is aluminum (easyE-35) or stainless steel (easyE-50 and easyE-60)

Front and rear brackets are PA, Aluminium or stainless steel

Protection class: IP66 (standard), IP68, IP69K, ATEX

Max. static load/ easyE-35: PA brackets: 2000N Alu/AISI: 5400N
 Self locking force easyE-50: PA brackets: 4700N Alu/AISI: 16800N

easyE-60: Alu/AISI: 16800N

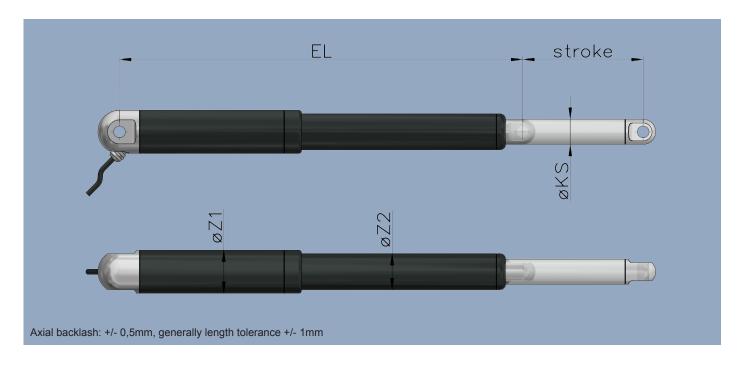
Depending on stroke length for push-applications

■ Temperature: -5°C to +70°C

■ Duty cycle: Max. 10% or 2 minutes in use followed by 18 minutes rest

Please Note:

- Power supply without over-current protection can cause serious damage to the actuator at mechanical end-stop or when actuator is overloaded in another way
- Effective stroke is reduced by up to 3mm
- Radial forces might have an adverse affect on the performance or lead to damage of the actuator
- Keep piston tube clean
- Longer cable lengths may cause voltage drop which affects the performance of the actuator
- For medical applications maximum ambient temperature is 48°C
- Function of the actuator is subject to the settings of the control box
- The dust and water sealing of IP68/IP69K actuators might affect their performance
- All specifications are for 25 °C ambient low temperature might affect performance

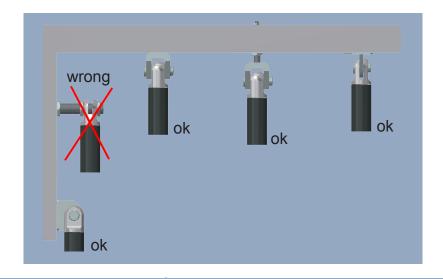


	EL	ØZ1	ØZ2	ØKS	Clevis rear	Hall	UL/ EN60.601	IP68/ IP69K
easyE-35 Gear ratio: C, D, E, F Gear ratio: G, H	stroke+160*	35	28	20	+10	+10	+10	+11
easyE-50 Gear ratio: C, D, E, F	stroke+240							
Gear ratio: G, H	stroke+255	50	40	30	-	+15	+15	+14
easyE-60 Gear ratio: all ratios	stroke+358	60	50	35	-	+15	+15	+25

*If stroke >500mm: EL+7mm, if stroke >700mm: EL+42mm

Recommended mounting methods:

- Do not clamp actuators on tubing
- Always keep both brackets mounted in the same orientation and ensure to flush mount actuator
- Brackets must always be able to rotate on axis in mountings



Choose your actuator: 1. Model: □ easyE-35 □ easyE-50 □ easyE-60 2. Stroke length: □ 50, 100, 150, 200, 250, 300, 350, 400, 500 and 750mm (others on request) 3. Gear ratio: C, D, E, F, G, H (speed and load see table) 4. Voltage: ☐ 12V DC (only easyE-35 and easyE-50) ☐ 24V DC □ 24V EN/UL 60.601 5. Temperature: ☐ standard (-5°C - +70°C) □ low (-40°C - +70°C) ☐ high (-5°C - +90°C) 6. Cable length: ☐ 1m - 9m (others on request) 7. Connector: no connector ■ Molex minifit 8. Material: Standard steel ☐ AISI 316 9. Protection class: ☐ IP66 (standard) □ IP68 ☐ IP69K ☐ ATEX zone 22, group II 3D complient **9. Certification** (only easyE-35 and easyE-50): □ EN/UL/CSA 60.601 (only 24 V DC) 10. Hall sensor: no (standard) ☐ yes (cable will change) 11. Low noise: ☐ no (standard) ☐ yes (not available in stainless steel) 12. Color: ☐ Black (standard) Available in all RAL colors



13. Connecting parts

Connecting parts "motor side":

L5	Code	Ø1	L5	SI	W	Α	Material	Max static load
	easyE-35	(mm)	(mm)	(m	m)	(mm)		
2	A1M	10	17,5	28	8	6	Alu	5400 N
	B1M	10	17,5	28		-	Polyamid (PA)	2000 N
	C1M	10	17,5	28	8	6	stainless steel	5400 N
	easyE-50							
MS (S	A2M	16	25	40	0	12,3	Alu	16800 N
	B2M	16	25	40		-	Polyamid (PA)	4700 N
	C2M	16	25	40	0	12,3	stainless steel	16800 N
	easyE-60							
	A3M	16	30	5	0	12,3	Alu	16800 N
	C3M	16	30	5	0	12,3	stainless steel	16800 N
with spherical bearings	Code	Ø1	L5	SI	W	Α	Material	Max static load
	easyE -35	(mm)	(mm)	(m	m)	(mm)		
	E1M	8	17,5	28	8	-	Alu	5400 N
	easyE-50							
	E2M	12	25	40	0		A I	44000 N
		. —	20	40	U	-	Alu	11000 N
		. =	25	4	U	-	Alu	11000 N
	Code	Ø1	L5	SW	A	s	Material	Max static load
15_						S (mm)		
	Code easyE-35 F1M	Ø1	L5	SW	Α			
1.5	easyE-35	Ø1 (mm)	L5 (mm)	SW (mm)	A (mm)	(mm)	Material	Max static load
	easyE-35 F1M	Ø1 (mm) 10	L5 (mm) 17,5	SW (mm) 28	A (mm) 6	(mm) 6,2	Material Alu	Max static load
	easyE-35 F1M G1M	Ø1 (mm) 10	L5 (mm) 17,5 17,5	SW (mm) 28 28	A (mm) 6	(mm) 6,2 4,2	Material Alu Polyamid (PA)	Max static load 5400 N 2000 N
	easyE-35 F1M G1M H1M	Ø1 (mm) 10	L5 (mm) 17,5 17,5	SW (mm) 28 28	A (mm) 6	(mm) 6,2 4,2	Material Alu Polyamid (PA)	Max static load 5400 N 2000 N
	easyE-35 F1M G1M H1M easyE-50	Ø1 (mm) 10 10	L5 (mm) 17,5 17,5 17,5	SW (mm) 28 28 28	(mm) 6 - 6	(mm) 6,2 4,2 6,2	Material Alu Polyamid (PA) stainless steel	Max static load 5400 N 2000 N 5400 N

PA-connecting parts are not available for gear ratio G and H

Connecting parts "p							
	Code	Ø2	L6		SW	Material	Max static load
76	easyE-35	(mm)	(mm)		(mm)		
	A1K	10	10		13	Alu	5400 N
20	B1K	10	10		13	Polyamid (PA)	2000 N
	C1K	10	10		13	stainless steel	5400 N
_	easyE-50						
>	A2K	16	15		20	Alu	16800 N
MS MS	B2K	16	15		20	Polyamid (PA)	4700 N
	C2K	16	15		20	stainless steel	16800 N
	easyE-60						
	A3K	16	17,5		25	Alu	16800 N
	C3K	16	17,5		25	stainless steel	16800 N
with spherical bearings	O a al a						
	Code	Ø2	L6		SW	Material	Max static load
	easyE-35	Ø2 (mm)	L6 (mm)		(mm)	Material	Max static load
						Material Alu	Max static load 5400 N
	easyE-35	(mm)	(mm)		(mm)		
	easyE-35 E1K easyE-50	(mm)	(mm)		(mm)		
	easyE-35 E1K	(mm) 8	(mm) 12		(mm) 18	Alu	5400 N
	easyE-35 E1K easyE-50	(mm) 8	(mm) 12	SW	(mm) 18	Alu	5400 N
16	easyE-35 E1K easyE-50 E2K	(mm) 8 12	(mm) 12 15		(mm) 18 20	Alu Alu	5400 N 11000 N
16	easyE-35 E1K easyE-50 E2K Code	(mm) 8 12	(mm) 12 15	SW	(mm) 18 20	Alu Alu	5400 N 11000 N
	easyE-35 E1K easyE-50 E2K Code easyE-35 F1K G1K	(mm) 8 12 Ø2 (mm)	(mm) 12 15	SW (mm)	(mm) 18 20 S (mm) 6,2 4,2	Alu Alu Material Alu Polyamid (PA)	5400 N 11000 N Max static load
16	easyE-35 E1K easyE-50 E2K Code easyE-35 F1K	(mm) 8 12 Ø2 (mm) 10	(mm) 12 15 L6 (mm) 10	SW (mm) 15	(mm) 18 20 S (mm) 6,2	Alu Alu Material Alu	5400 N 11000 N Max static load 5400 N
16	easyE-35 E1K easyE-50 E2K Code easyE-35 F1K G1K	(mm) 8 12 Ø2 (mm) 10	(mm) 12 15 L6 (mm) 10 10	SW (mm) 15 13	(mm) 18 20 S (mm) 6,2 4,2	Alu Alu Material Alu Polyamid (PA)	5400 N 11000 N Max static load 5400 N 2000 N
16	easyE-35 E1K easyE-50 E2K Code easyE-35 F1K G1K H1K easyE-50 F2K	(mm) 8 12 Ø2 (mm) 10 10 10	(mm) 12 15 L6 (mm) 10 10 10 15	SW (mm) 15 13	(mm) 18 20 S (mm) 6,2 4,2 6,2 6,2	Alu Material Alu Polyamid (PA) stainless steel Alu	5400 N 11000 N Max static load 5400 N 2000 N
16	easyE-35 E1K easyE-50 E2K Code easyE-35 F1K G1K H1K easyE-50	(mm) 8 12 Ø2 (mm) 10 10	(mm) 12 15 L6 (mm) 10 10 10	SW (mm) 15 13 15	(mm) 18 20 S (mm) 6,2 4,2 6,2	Alu Material Alu Polyamid (PA) stainless steel	5400 N 11000 N Max static load 5400 N 2000 N 5400 N

stainless steel

16800 N

6,2

20

H2K

15

Controllers:

EEL-S1

For 1-3 actuators



FEATURES:

- Plug and play solution
- Handset or external switches
- for easyE-35 and easyE-50

TECHNICAL DETAILS:

- Supply: 230 V

EEL-S2-1

For 1 actuator



FEATURES:

- Adjustable start and stop ramp
- Adjustable current limit
- Continuous-mode, impulse-mode
- Easy interfacing to PLC etc.
- DIN-rail fittable
- Hall sensors not supported

TECHNICAL DETAILS:

- Supply: 12 or 24 VDC
- Over voltage protection: 40 V
- Idle current: Approx. 15 mA
- Driving current: 10 A continuous, 16 A with duty cycle 50%, Max 16 A on duty 2 min

EEL-S2-2 For 1 actuator



FEATURES:

- Precise position control from analog voltage input
- Adjustable start and stop ramp
- Settable current limit
- High momentary load capacity
- DIN-rail base fittable
- "Position reached" signal
- Hall sensors necessary

TECHNICAL DETAILS:

- Supply voltage: 12 or 24 VDC
- Actuator current continuous max: 15A
- Current limit adj.: 0.1-20A
- Overheat limit: 100°C
- Hall input freq.: Max 1kHz
- Input control logic (pos.): High=4-30V, Low=0-1V or open

EEL-S2-3 For 2 actuators



FEATURES:

- Synchronized operation of 2 actuators
- Current and temperature protection
- Settable drive speed
- Adjustable start- and stop ramp
- Easy setting with serial interface
- Autobalance feature
- Hall sensors necessary

TECHNICAL DETAILS:

- Supply Voltage: 12 or 24 VDC
- Quiescent current: 15mA
- Motor current: 2x10A cont. 2x20A, 25% duty
- Current limit: 1-20A

TECHNICAL DETAILS:

- Idle current: < 5mA

- Ramps 0-3 sec

- Pulse input freq. max.: 1kHz
- Pulse inputs pull- up/down: 10kO
- Control inputs: 0-1V=OFF; 4-30V=ON

- Supply: 24VDC NiMH or Li-Ion battery

- Current limit: 8A/ch max. total 12A

- Connector type Molex Mini-Fit 6 pin

EEL-S3 EEL-S4

For 1-4 actuators

FEATURES:

- Battery powered for mobile use
- 24VDC NiMh or Li-Ion battery
- Customized colors and foil design
- Wired handset

EEL-S3:

- 1 actuator
- up- and down function

EEL-S4:

- Adjustable current limit in and out
- Adjustable calibration speed and current
- Adjustable virtual min/max-position
- Individual or synchronous operation for drive 1-4 actuators

The flyer is subject to technical alterations and printing mistakes.

Bansbach easylift GmbH

Barbarossastraße 8 D-73547 Lorch

Tel. +49 (0) 7172/9107-0 Fax +49 (0) 7172/9107-44 info@bansbach.de www.bansbach.de

