easyE® 60

Electric Linear Actuator

NEW INTELLIGENT Integrated Controller

easyE-i

See datasheet at www.easye.us

Bansbach easylift®

Data

Motor/Gear 4 VDC power supply, permanent magnet motor

Gear Ratio	D	E	F	G	H
Force 24V (dyn. push and pull) [N]	1900	4300	6600	8100	10000
Speed at maximum load [mm/s]	26	12	8	6	5
Current at maximum load: **24VDC** (max 28VDC)= 11.5A					

Max. static load*/Self-locking force
*Depending on stroke length for push-applications
- Alu/AISI: 16800 N

Temperature
- Operation: -20°C to +50°C
- Storage: -40°C to +70°C

Relative humidty
- 20% to 70%, atmospheric pressure = 1 atm

Protection class
- IP66

Cable specification
- 1m, 2x1.3mm² (AWG 16), Ø = 6.4mm, black, Molex Mini-Fit Jr. 6 pin

Bending radius
- 6x cable diameter

Materials
- Motor and actuator tube are powder coated steel
- Piston rod is stainless steel
- Front and rear brackets are aluminum

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

Color
- Black (RAL 9005) is standard

Stroke length/weight

Stroke	[mm]	50	100	150	200	250	300	350	400	500	750
Weight	[kg]	4.1	4.4	4.7	5	5.3	5.6	5.9	6.2	6.5	7.6

Type easyE 60 max. load limited to 5000 N for stroke lengths ≥ 500mm. Actual weight may vary depending on model and options selected.

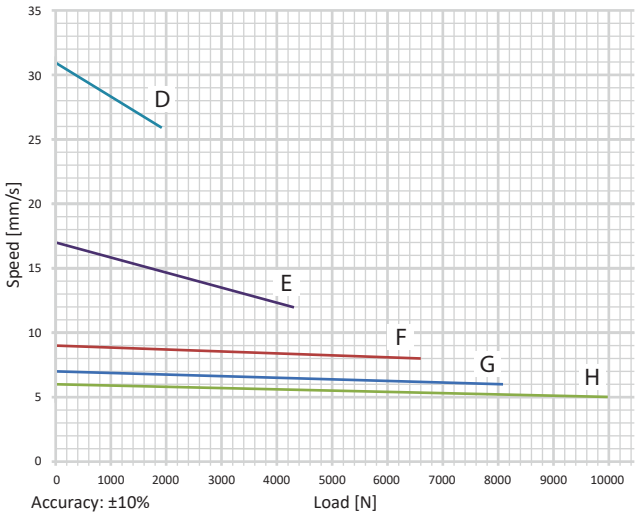
Options:
- Stainless steel versions (AISI 316)
- Front and rear brackets in aluminum or stainless steel
- Front and rear brackets with clevis
- Brackets with spherical bearings
- Hall sensors for positioning and/or synchronization
- Other cable lengths (1-9m)
- Connector types (Molex 5557/DIN 8 pole/Phono/Others)
- Low noise (Not available in Stainless Steel)
- HE (Harsh Environment) version (gear ration 1:4 not available). Tested according to IP68 and IP69 and passed the criteria for a depth of one meter for one hour. Test reports available upon request.
- Version certified according to IEC60601-1, ANSI/AAMI/ES60601-1, CAN/CSA-22.2 No60601-1 available (24 VDC only)
- ATEX zone 22, group II 3 D approval
- Tested according to EN/UL/CSA60.601

On request:
- Available in all RAL colors
- Other stroke lengths available
- Customized front, rear brackets and built in measures

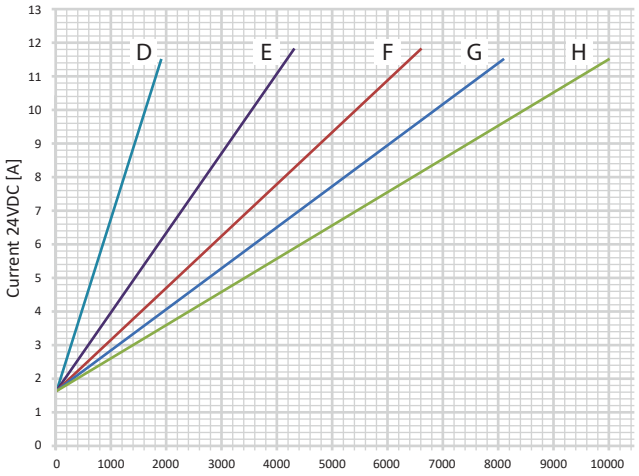
Contact Bansbach for any special requirements

* The dust and water sealing of HE actuators might affect their performance in lower gear ratios

Speed/force



Force/current

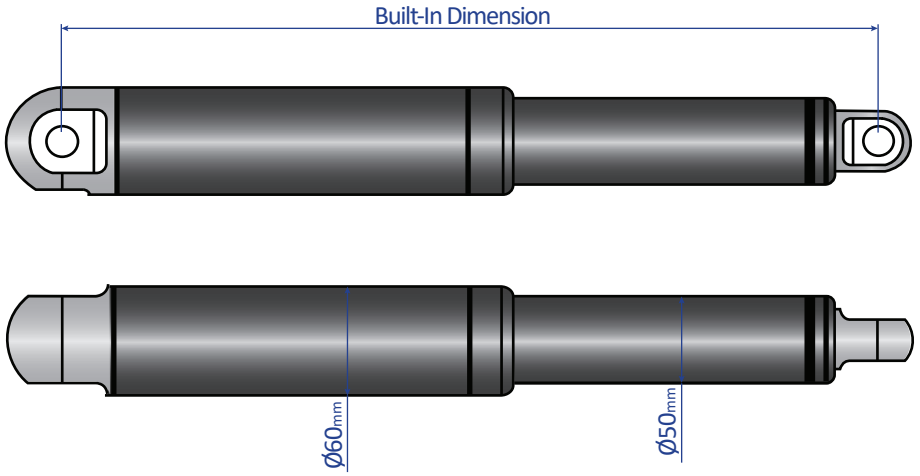


Recommended max. current: 24VDC = 10A. Accuracy: ±10%

Dimensions

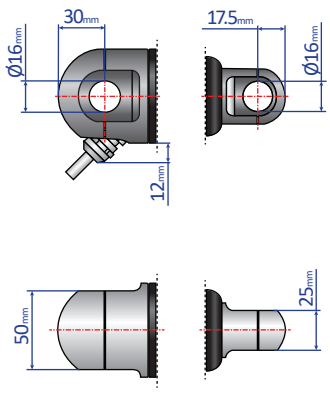
Axial backlash:
+/- 0.5mm

General dimensional variation:
+/- 1mm



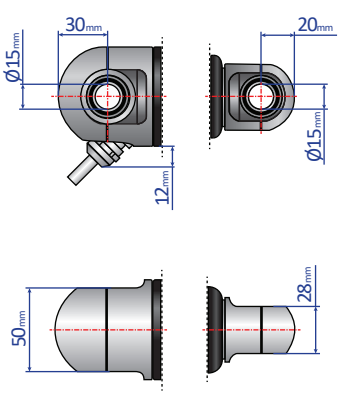
Built-In Dimension 'A'							
Gear Ratio	Standard	Clevis Rear	Hall	UL/EN60.601	Harsh Environment	Emergency lowering/spline	easyE-i
All Ratios	358+stroke	–	+15	+15	+25	+31/+10	+15
Stroke length ≥ 500mm: +25mm							

Standard Brackets



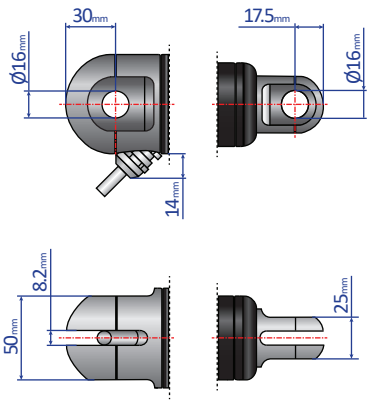
Alu / AISI316
Max. static load 16800N

Hinge Eye
A3 – Aluminum
C3 – Stainless Steel



Alu / AISI316 with spherical bearings
Max. static load 11000N

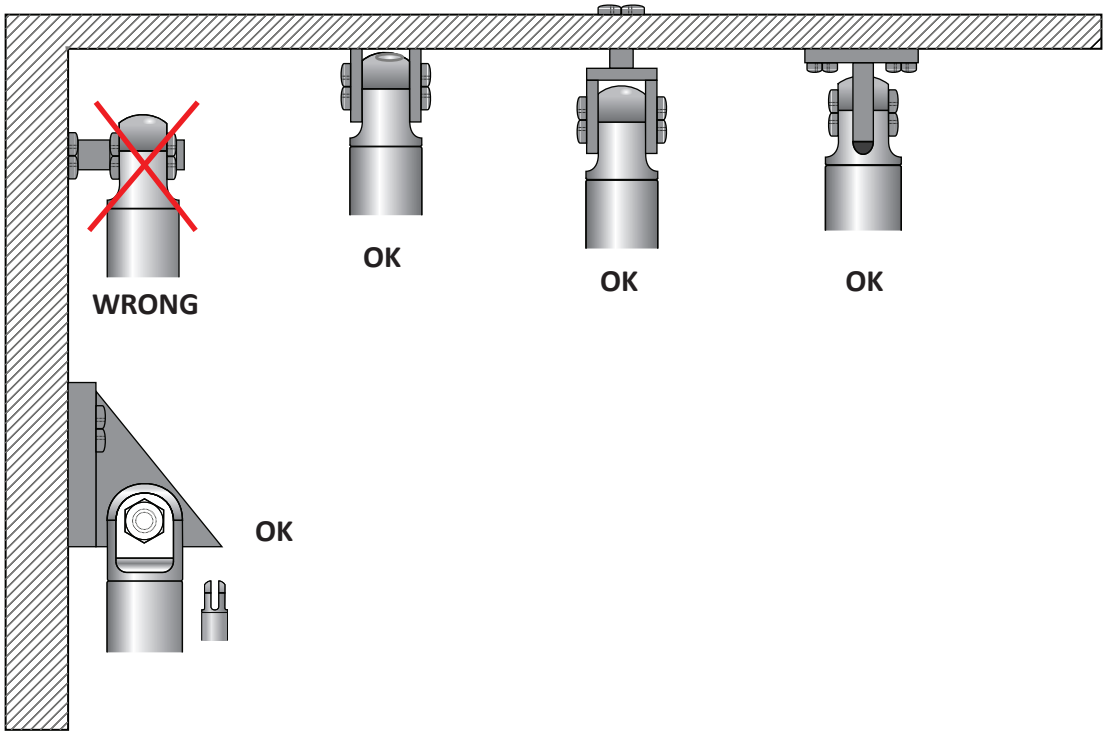
E3 – Aluminum
J3 – Stainless Steel



Alu / AISI316 with clevis
Max. static load 16800N

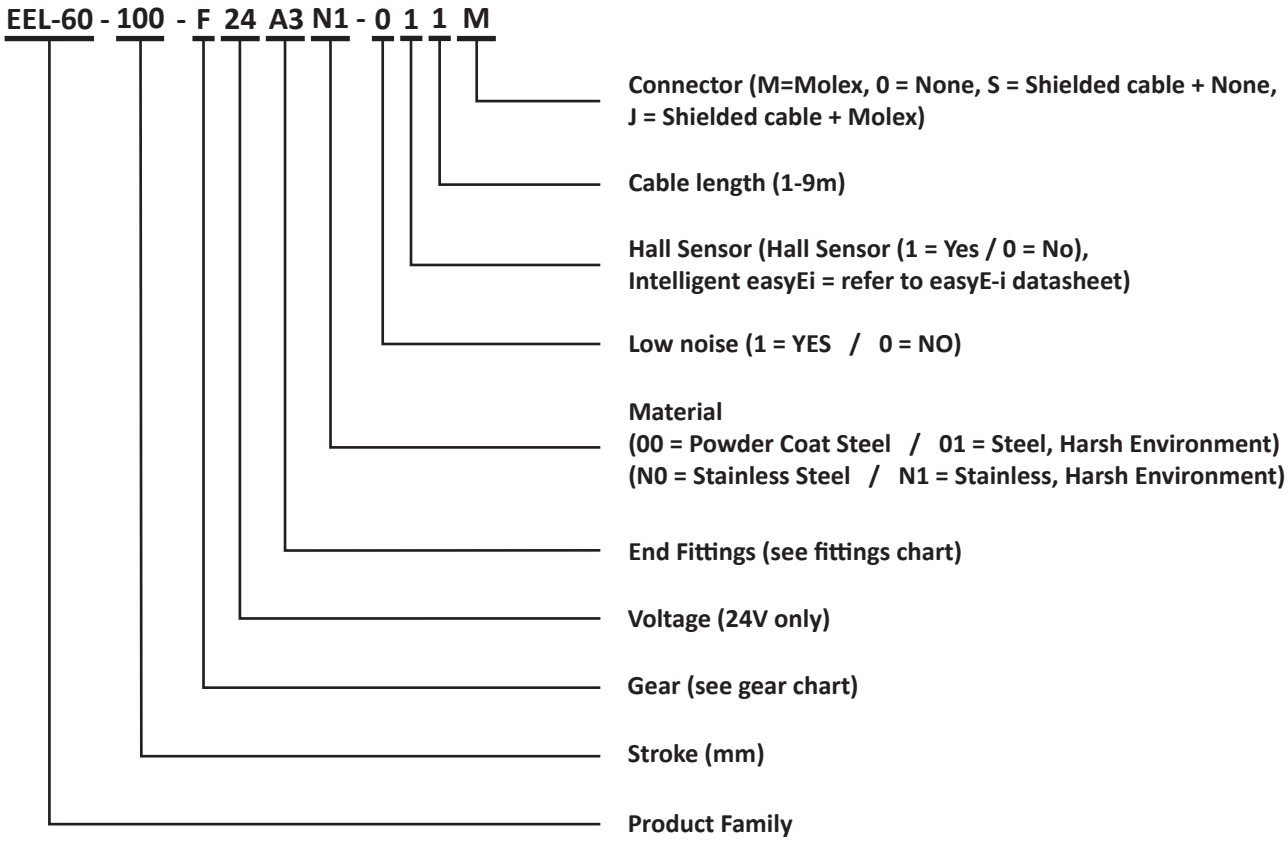
F3 – Aluminum
H3 – Stainless Steel

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 axels in mountings

easyE® 60 Item Number Combination



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
- 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
- Bansbach does not have any responsibility for possible errors in this data sheet
- Specifications are subject to change without notice
- The dust and water sealing of Harsh Environment actuators might affect their performance
- All specifications are for 25˚C ambient – low temperature might affect their performance
- Depending on load and application, nominal and actual stroke length may differ due to internal disc springs not being fully compressed

Disclaimer

- Modern production processes and a certified quality system, guarantee that Bansbach products are of the highest quality standard. It is always the responsibility of the customer to examine the appropriateness of the application and environment for each product.
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For more information, please visit our website at: www.bansbach.com

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