easyE® 25
Electric Linear Actuator

Bansbach
easylift®

Speed and Force: **Motor/Gear** 12/24 VDC power supply, permanent magnet motor

Gear Ratio	C	D	E
Force (dyn. push and pull) [N]	110	310	370
Speed at maximum load [mm/s]	5	2	1.5

Current at maximum load: **12VDC** (max 14VDC) = 0.7A, **24VDC** (max 28VDC) = 0.4A

Gear ratio C, D, E	Stroke + 170

Features:

- **Stroke:** 50, 100, 150, 200, 250mm
- **Cable:** 1m, 2X0.50mm² (AWG20), Ø=4.8mm, black, Molex Mini-Fit Jr. 6 pin
- **Bending radius:** 6x cable diameter
- **Material:** Motor and actuator tube are powder coated aluminium Piston rod is aluminium Front and rear brackets are PA

- **Protection class:** IP66 (Standard)
- **Max static load/ PA Brackets:** 1000N self-locking force: Depending on stroke length for push-applications Max. Load to 250N for stroke > 250mm
- **Temperature:** -20°C to +70°C Storage: -40°C to +70°C
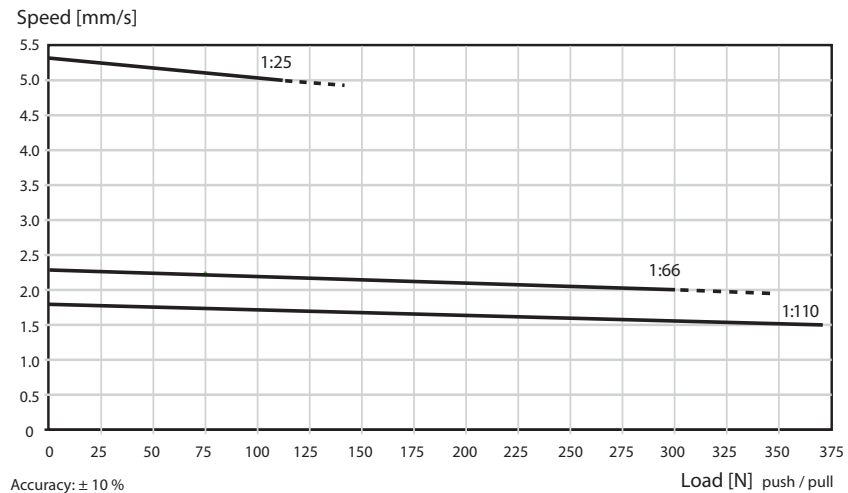- **Duty cycle:** Max. 10% or 2 minutes in use followed by 18 minutes rest

Ø25mm   Ø22mm   Ø16mm

Axial backlash: ±0.5 mm General dimensional variation: ±1 mm
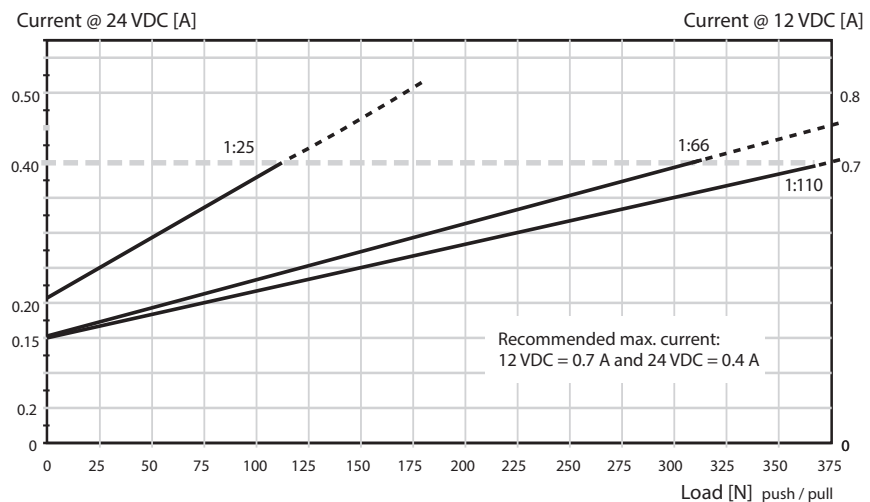
Stroke length/weight:

Stroke	[mm]	50	100	150	200	250
Weight	[kg]	0.3	0.35	0.4	0.45	0.5

Type easyE 25 max. load limited to 1000 N for stroke lengths ≥ 500 mm. Actual weight may vary depending on model and options selected.

Speed/force:

Speed [mm/s]

5.5
5.0 — 1:25
4.5
4.0
3.5
3.0
2.5
2.0 — 1:66
1.5 — 1:110
1.0
0.5
0

0 25 50 75 100 125 150 175 200 225 250 275 300 325 350 375

Accuracy: ± 10 %

Load [N] push / pull

Force/current:

Current @ 24 VDC [A]   Current @ 12 VDC [A]

0.50   0.8
0.40 — 1:25   1:66   0.7
                               1:110
0.20
0.15

Recommended max. current:
12 VDC = 0.7 A and 24 VDC = 0.4 A

0.2
0

0 25 50 75 100 125 150 175 200 225 250 275 300 325 350 375

Load [N] push / pull

Options:
- Stainless steel versions (AISI 316)
- Front and rear brackets in aluminum or stainless steel
- Front and rear brackets with clevis
- Hall sensors for positioning and/or synchronization
- Other cable lengths (1-9m)
- Connector types: (Molex 5557/DIN 8 pole/Phono/Others)

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

Precautions:
Power supply without over current-relay or other current switch-off devices can cause serious damage to the actuator at mechanical end-stop stop or if the actuator is overloaded in another way. Radial forces might have an adverse effect of the performance of, or lead to damage to the actuator.

Contact Bansbach for any special requirements
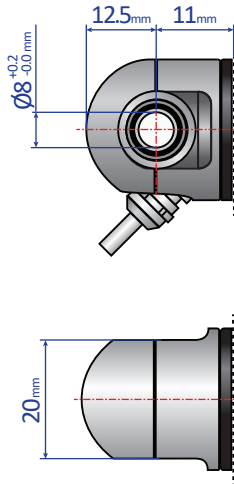* The dust and water sealing of HE actuators might affect their performance in lower gear ratios

Connecting Parts:

Hinge Eye Motor Side
Code: B0M
Material: Polyamid (PA)
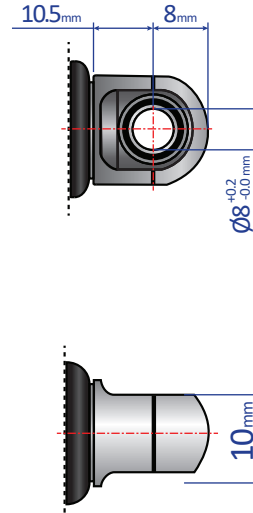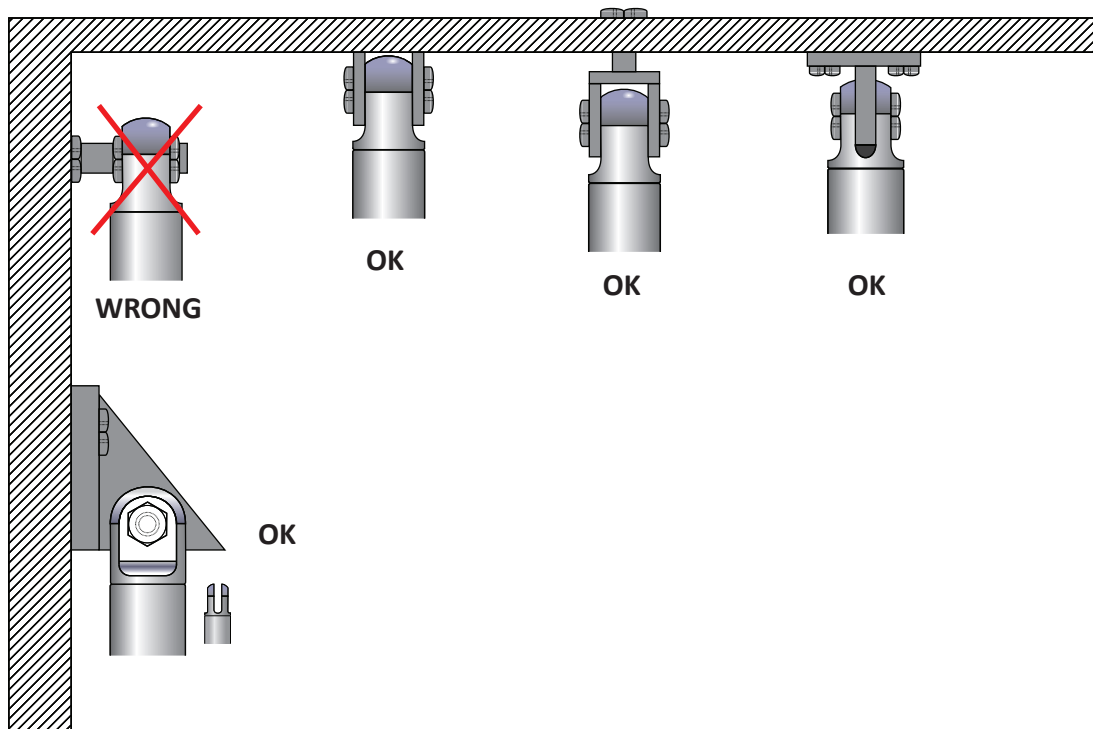Maximum static load: 1000N

12.5mm 11mm $\varnothing 8^{+0.2}_{-0.0}$ mm 20mm

Hinge Eye Piston Rod Side
Code: B0K
Material: Polyamid (PA)
Maximum static load: 1000N

10.5mm 8mm $\varnothing 8^{+0.2}_{-0.0}$ mm 10mm

Recommended Mounting Methods:

WRONG

OK
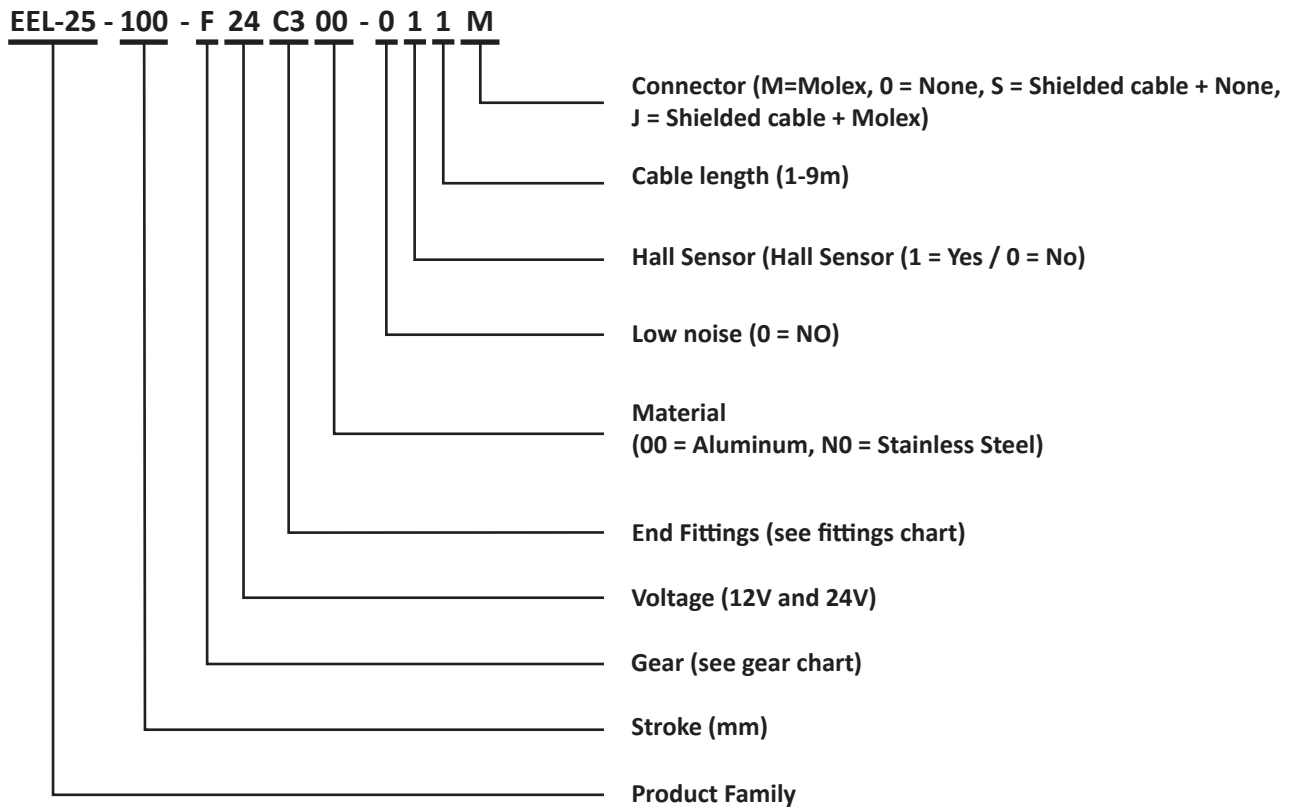
OK

OK

OK

- 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® 25

easyE® 25 Item Number Combination

EEL-25 - 100 - F 24 C3 00 - 0 1 1 M

- Connector (M=Molex, 0 = None, S = Shielded cable + None, J = Shielded cable + Molex)
- Cable length (1-9m)
- Hall Sensor (Hall Sensor (1 = Yes / 0 = No)
- Low noise (0 = NO)
- Material (00 = Aluminum, N0 = Stainless Steel)
- End Fittings (see fittings chart)
- Voltage (12V and 24V)
- Gear (see gear chart)
- Stroke (mm)
- Product Family

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.
- Bansbach is not responsible for any errors found within this document. Information is subject to change without notice.

For more information, please visit our website at: www.bansbach.com