

EWELLIX

A Schaeffler Company

Linear actuator Ecomag



Compactness



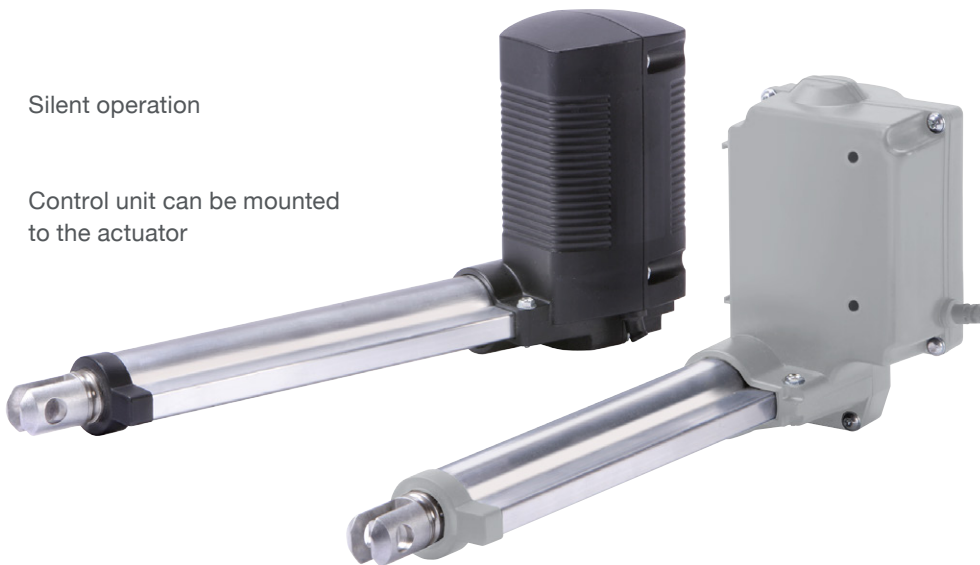
Cost effective



Silent operation



Control unit can be mounted
to the actuator

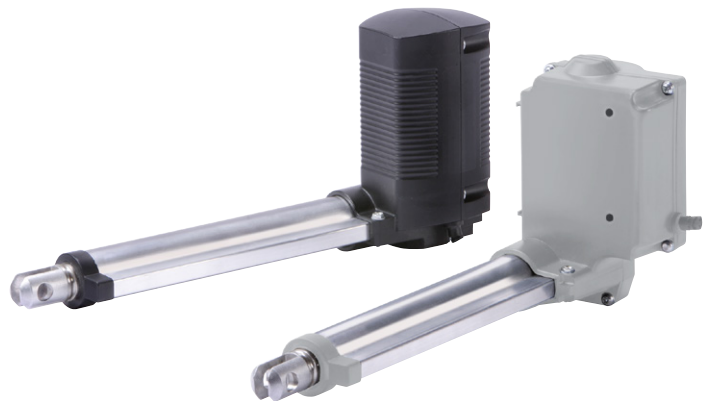


Ecomag

Linear actuator

Benefits

- Compact
- Cost effective
- Silent operation
- Control unit can be mounted to the actuator

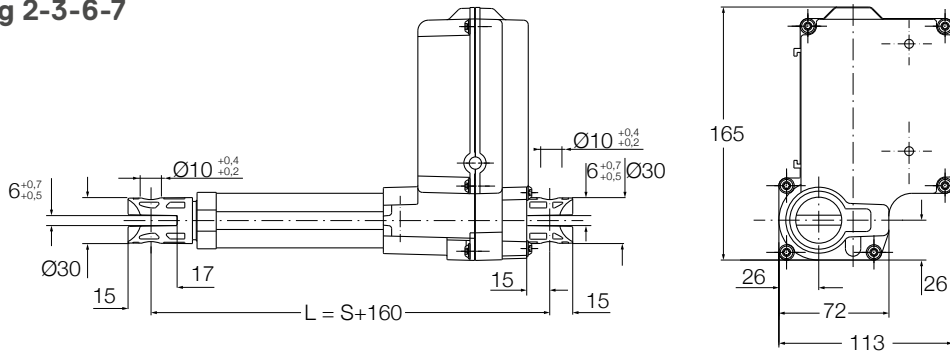


Technical data

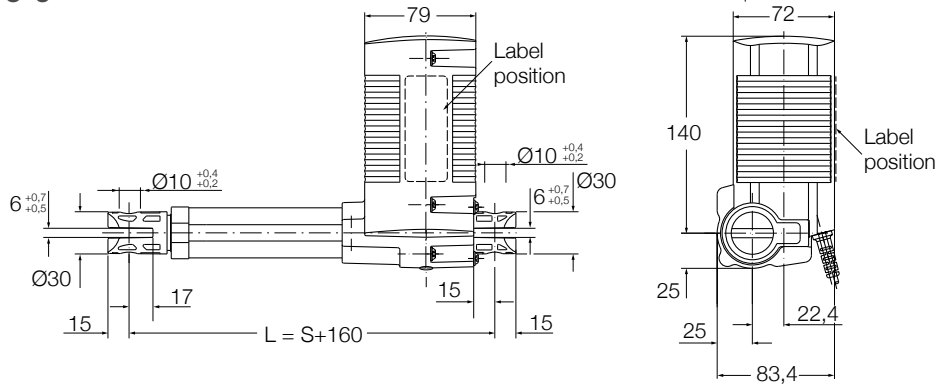
| | Unit | ECO 20/40 | ECO 60/80 | ECO 30/50 | ECO 70/90 |
|------------------------------|------|---------------|---------------|---------------|---------------|
| Rated push load | N | 2 000 | 6 000 | 2 000 | 6 000 |
| Rated pull load | N | 0 | 0 | 2 000 | 4 000 |
| Speed (full load to no load) | mm/s | 9 to 13 | 4 to 7 | 9 to 13 | 4 to 7 |
| Stroke | mm | 50 to 300 | 50 to 300 | 50 to 300 | 50 to 300 |
| Retracted length | mm | S+160 | S+160 | S+160 | S+160 |
| Voltage | V DC | 24 | 24 | 24 | 24 |
| Power consumption | W | 70 | 120 | 70 | 120 |
| Current consumption | A | 4 | 6 | 4 | 6 |
| Duty cycle | % | 10 (1/9) | 10 (1/9) | 10 (1/9) | 10 (1/9) |
| Ambient temperature | °C | +10 to +40 | +10 to +40 | +10 to +40 | +10 to +40 |
| Type of protection | IP | ×4S | ×4S | ×4S | ×4S |
| Weight | kg | 2,1 | 2,1 | 2,5 | 2,5 |
| Color | – | Black or grey | Black or grey | Black or grey | Black or grey |

Dimensional drawing

Ecomag 2-3-6-7



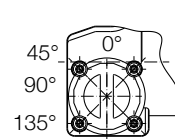
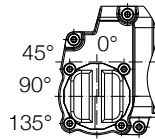
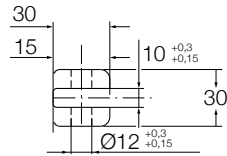
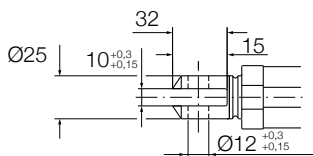
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Front attachment
push and pull version

Rear attachment
push and pull version

Rear attachment
position



Push version only

Push and pull version

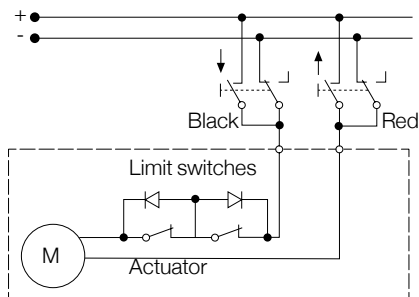
Legend:

S = stroke

L = retracted length

Connecting diagrams

Jack Plug 24 V DC



Suitable control units and accessories

| ECOMAG | Control units | | | | |
|--------------------|---------------|-----|-----|-----|-----|
| | SCU | VCU | BCU | MCU | SEM |
| Operating switches | | | | | |
| EHA 1 | | | | • | |
| EHA 3 | • | • | • | | |
| EHE | | | | | • |
| STJ | • | • | • | | |
| STF | | | | • | |
| STA | | | | • | |
| STE | • | • | • | | |

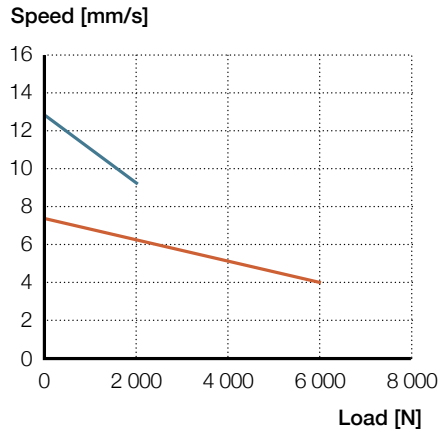
Hand switch

Foot switch

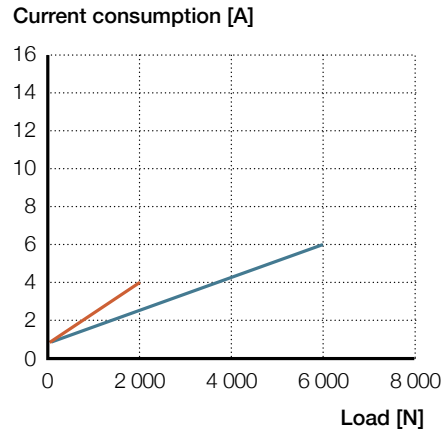
Desk switch

Performance diagrams

Speed-load diagram



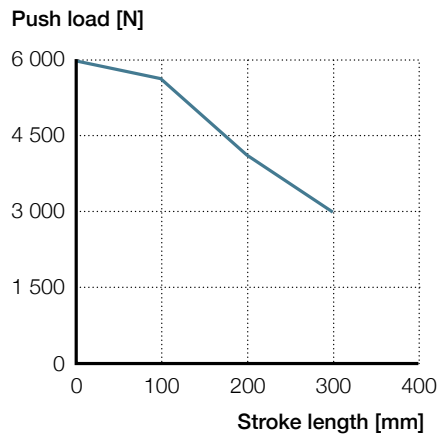
Current-load diagram



— ECO 20 / 30 / 40 / 50 — ECO 60 / 70 / 80 / 90

Safety factor load conditions

Push load reduction safety factor = 4



Ordering key

Type _____

Load /Housing _____

| | Push | Pull | Housing |
|---|---------|---------|---------|
| 2 | 2 000 N | 0 N | Large |
| 3 | 2 000 N | 2 000 N | Large |
| 4 | 2 000 N | 0 N | Small |
| 5 | 2 000 N | 2 000 N | Small |
| 6 | 6 000 N | 0 N | Large |
| 7 | 6 000 N | 4 000 N | Large |
| 8 | 6 000 N | 0 N | Small |
| 9 | 6 000 N | 4 000 N | Small |

Encoder _____

0 No encoder, coiled cable, 2-pin Minit plug or customization
 9 No encoder, coiled cable, DIN8 plug or customization
 F 2-Hall encoder, 8 pulses, straight cable, DIN8 plug (small housing only)

Current cut-off _____

0 No
 1 Yes (not available for ECO4.-/ECO5.-/ECO8.-/ECO9.-)

Stroke (S) _____

05 50 mm
 10 100 mm
 15 150 mm
 20 200 mm
 25 250 mm
 30 300 mm
 00 Other stroke lengths; 50<S<300 mm

Front attachment (groove depth 17 mm) _____

M Hole, Ø12 mm, groove width 10 mm
 X Customized

Rear attachment (groove depth 15 mm) _____

M Hole, w12 mm, groove width 10 mm
 X Customized

Orientation of rear attachment _____

1 0°
 3 45°
 5 90°
 7 135°

Color _____

A Black (available only for small housing)
 B Grey

Option _____

0 No option
 A Back-up nut (available only for drives with 6 kN, mandatory for IEC 60601-1) – only for ECO 7/9, L = +23 mm

Customization _____

Options shown in red are only available on request. Contact Ewellix for more information on minimum quantities and additional costs.



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