

Linear actuator DSZY4

Electric linear actuators are used in many different applications.

DSZY4 Standard is equipped with a rugged acme screw with high static force. It is a small, compact and lightweight dc-linear drive.

Internal diodes allow the easy change of direction by reversing the power-supply. All DSZY4-actuators have two end-switches integrated (not possible to adjust).

An overload-protection can be made by using a current control.

Standard

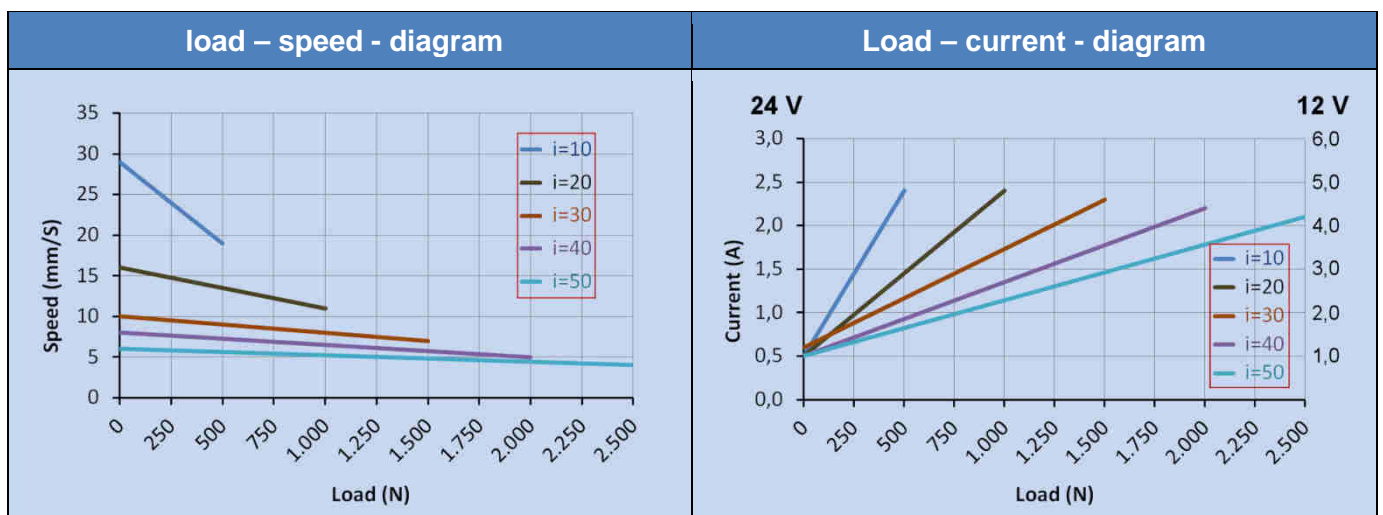


DSZY4

Type code

| | | | | | | | | |
|-------|---|---------|---|----------------|---|--------|---|-----------------|
| DSZY4 | - | 12 | - | 10 | - | 200 | - | IP65 |
| Type | | Voltage | | Gear reduction | | Stroke | | Protection type |
| | | 12V | | 10 | | 100mm | | |
| | | 24V | | 20 | | 150mm | | |
| | | | | 30 | | 200mm | | |
| | | | | 40 | | 250mm | | |
| | | | | 50 | | 300mm | | |

Diagram

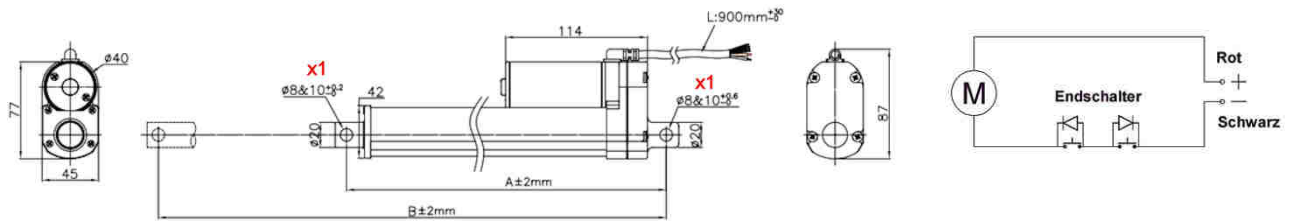


Additional technical data

- push/pull force up to 2.500N
- static force to 4.500N (by i=50)
- Operating temperature -26C°- 65C°
- Duty cycle 25% - 1min continuous operation in 4min
- Zinc alloy housing
- Aluminium outer tube and stroke rod
- Voltage 12 or 24 VDC
- Options: hall sensors
- Protection type IP65



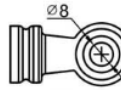
Dimension

| Linear actuator | Length | Mass in mm | | | | |
|-----------------------|-------------------------|------------|-----|-----|-----|-----|
| | Stroke $\pm 2\text{mm}$ | 100 | 150 | 200 | 250 | 300 |
| DSZY4 - type standard | A | 205 | 255 | 305 | 355 | 405 |
| | B | 305 | 405 | 505 | 605 | 705 |



x1: Standard = 10mm
Optional = 8mm

Accessories

| Front-Connector | |
|---|---|
|  C1x Hole $\varnothing 8$ | C1x - is standard |
|  $\varnothing 8$ C2x Plastic Connector | |
|  $\varnothing 8$ C3x Universal Joint | Attention: by C3x heightens itself the dimension A or B about 41mm |

Mounting instruction

Please make sure, that load is not bigger than shown in the diagram speed/load. If overload is possible in the application, please use a separate current control to switch off at too high current (= too high load). Nominal current, depending on ratio, is shown in the diagram current / load.

Please use the right voltage supply as it is shown on the actuator. For extending the piston rod connect the red cable with plus and the black cable with minus. Movement is stopped automatically at the end of the stroke. For moving back, reverse the polarity (change plus and minus). Endswitches are not adjustable by themselves.

Load should be centered in moving direction, shear forces should be avoid because of shortening the lifetime. Big shear forces can destroy the actuator! Be careful.

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