Linear actuator DSZY1

Electric linear actuators are used in many different applications.

DSZY1 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 DSZY1-actuators have two end-switches integrated (not possible to adjust).

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

Type code

<table>
<thead>
<tr>
<th>Type code</th>
<th>Voltage</th>
<th>Gear reduction</th>
<th>Stroke</th>
<th>Protection type</th>
</tr>
</thead>
<tbody>
<tr>
<td>DSZY1</td>
<td>12V</td>
<td>5</td>
<td>25mm</td>
<td>IP65</td>
</tr>
<tr>
<td></td>
<td>24V</td>
<td>10</td>
<td>50mm</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>20</td>
<td>100mm</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>30</td>
<td>200mm</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>40</td>
<td>250mm</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>300mm</td>
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</tbody>
</table>

Diagram

Load – speed – diagram

Load – current – diagram

Additional technical data

- Push/pull force: up to 1.000N
- Static force: 2.000N (by i=40)
- Operating temperature: -26°C–65°C
- Duty cycle: 25% (1min continuous operation in 4min)
- Zinc alloy housing
- Aluminium outer tube and stroke rod
- Voltage: 12 or 24 VDC
- Options: potentiometer and hall sensors
- Protection type: IP65
- Noise level: ≤74dB
### Dimension

<table>
<thead>
<tr>
<th>Linear actuator</th>
<th>Length (mm)</th>
<th>Mass in kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>DSZY1 - type standard</td>
<td>Stroke ± 3mm</td>
<td>25</td>
</tr>
<tr>
<td>A</td>
<td>128</td>
<td>158</td>
</tr>
<tr>
<td>B</td>
<td>153</td>
<td>208</td>
</tr>
</tbody>
</table>

**Options:** C2x or C3x

**Attention:** By C3x - the dimension A and B lengthens itself about +41mm

**Mounting für actuator**
- Clamp: DSZY1-H01
- Mounting Bracket: DSZY1-H02

**Please additionally order.**

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**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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