Actuator LA25
IC Basic
Connection diagram
Please be aware that if the power supply is not properly connected, you might damage the actuator!
# I/O Specifications

<table>
<thead>
<tr>
<th>Input/Output</th>
<th>Specification</th>
<th>Comments</th>
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</thead>
<tbody>
<tr>
<td>Description</td>
<td>Easy to use interface with integrated power electronics (H-bridge). The version with &quot;IC option&quot; cannot be operated with PWM (power supply). See connection diagram, figure above</td>
<td>Note: Do not change the power supply polarity on the brown and blue wires! Power supply GND (-) is electrically connected to the housing</td>
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</table>
| Brown        | 12-24VDC + (VCC)  
Connect Brown to positive  
12V ± 20% - max. 5A depending on load  
24V ± 10% - max. 2.5A depending on load  
12V, current limit 8A  
24V, current limit 5A | If the temperature drops below 0°C, all current limits will automatically increase to 9A for 12V and 6A for 24V |
| Blue         | 12-24VDC - (GND)  
Connect Blue to negative  
12V ± 20% - max. 5A depending on load  
24V ± 10% - max. 2.5A depending on load  
12V, current limit 8A  
24V, current limit 5A | |
| Red          | Extends the actuator | On/off voltages:  
> 67% of VIN = ON  
< 33% of VIN = OFF  
Input current: 10mA |
| Black        | Retracts the actuator | |
| Green        | Endstop signal out | Output voltage min. VIN - 2V  
Source current max. 100mA |
| Yellow       | Endstop signal in | Endstop signals are NOT potential free. |
| Violet       | Not to be connected | |
| White        | Not to be connected | |

- Current cut-offs should not be used as stop function! This might damage the actuator. Current cut-offs should only be used in emergencies!
- Current cut-off limits are not proportional with the load curves of the actuator. This means that the current cut-offs cannot be used as load indicator.
- There are tolerances on the spindle, nut, gear wheels etc. and these tolerances will have an influence on the current consumption for the specific actuator.
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