Actuator LA33
Proportional control
Connection diagram
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>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Description</strong></td>
<td>Easy to use interface with integrated power electronics (H-bridge). The actuator is speed controlled by means of a PWM or 4-20mA signal. Proportional provides a wide range of possibilities for customisation. See connection diagram, figure above.</td>
<td></td>
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</table>
| **Brown** | 12-24VDC + (VCC)  
Connect Brown to positive  
12V ± 20%  
24V ± 10%  
12V, max. 13A - current cut off @ 15A  
24V, max. 9A - current cut off @10A | Note: Do not change the power supply polarity on the brown and blue wires! Power supply GND (-) is electrically connected to the housing  
If the temperature drops below 0°C, all current limits will automatically increase to:  
20A for 12V  
15A for 24V |
| **Blue** | 12-24VDC - (GND)  
Connect Blue to negative  
12V ± 20%  
24V ± 10%  
12V, max. 13A - current cut off @ 15A  
24V, max. 9A - current cut off @10A | |
| **Red Black** | PWM:  
Signal levels:  
> 10V = High  
< 2V = Low  
with reference to power GND (blue)  
Equivalent input resistance ≈ 22k  
Frequency:  
Min. 100Hz  
Max. 1000Hz  
Overcurrent protected, reverse voltage protected | |
| | 4-20mA:  
Sinking current with reference to power GND (blue)  
Common mode voltage: GND to V supply  
Equivalent input resistance ≈ 135ohm  
Overcurrent protected, reverse voltage protected | |
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