Actuator LA33
Endstop signals and absolute positioning - PWM
Connection diagram
Connection diagram

*YELLOW/GREEN: Endstop signals out are NOT potential free

**Tip:** If you wish to use the endstop signals, you will have to keep power on the brown, blue, red and black wires, otherwise the signal will be lost.
# I/O Specifications

<table>
<thead>
<tr>
<th>Input/Output</th>
<th>Specification</th>
<th>Comments</th>
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<tbody>
<tr>
<td><strong>Description</strong></td>
<td>The actuator can be equipped with electronic circuit that gives an analogue feedback signal when the actuator moves. See connection diagram, figure above</td>
<td></td>
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| **Brown** | 12 or 24VDC (+/-)  
12V ± 20%  
24V ± 10%  
Under normal conditions: | To extend actuator:  
Connect Brown to positive  
To retract actuator:  
Connect Brown to negative |
| **Blue** | 12V, max. 13A depending on load  
24V, max. 9A depending on load | To extend actuator:  
Connect Blue to negative  
To retract actuator:  
Connect Blue to positive |
| **Red** | Signal power supply (+) 12-24VDC | Current consumption:  
Max. 60mA, also when the actuator is not running |
| **Black** | Signal power supply GND (-) | |
| **Green** | Endstop signal out | Output voltage min. $V_{IN} - 2V$  
Source current max. 100mA  
NOT potential free |
| **Yellow** | Endstop signal in | |
| **Violet** | Digital output feedback (PNP)  
10-90% (Option 5)  
20-80% (Option 6) | Output voltage min. $V_{IN} - 2V$  
Tolerances +/- 2%  
Max. current output: 12mA  
Frequency: 75Hz |
| **White** | Not to be connected | |

For actuators with analogue feedback it is recommended to fully extract and retract the actuator on a regular basis (thereby activating the limit switches) in order to ensure precise positioning.
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