Actuator LA14
Endstop signals and absolute positioning - Analogue feedback
Connection diagram
Connection diagram

14XXXXXXXXX0A0X0X=XX1XXXXXXXXXX

*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>
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<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 | 12-24VDC (+/-)  
12V ± 20%  
24V ± 10%  
Under normal conditions:  
12V, max. 5A depending on load  
24V, max. 2.5A depending on load | To extend actuator:  
Connect Brown to positive  
To retract actuator:  
Connect Brown to negative |
| Blue | | 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. \( V_{\text{IN}} - 2V \)  
Source current max. 100mA  
NOT potential free |
| Yellow | Endstop signal in | |
| Violet | Analogue feedback  
0-10V  (Option A)  
0.5-4.5V  (Option B)  
Special  (Option F)  
4-20mA  (Option C)  
Special  (Option F) | Tolerances +/- 0.2V  
Max. current output: 1mA  
Ripple max. 200mV  
Transaction delay 20ms  
Linear feedback 0.5%  
Tolerances +/- 0.2mA  
Transaction delay 20ms  
Linear feedback 0.5%  
Output: Source  
Serial resistance:  
12V max. 300 ohm  
24V max. 900 ohm | |
| White | Not to be connected | |

For all analogue feedbacks it is recommendable to have the actuator to activate its limit switches on a regular basis, to ensure more precise positioning.
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