Actuator LA36/LA37
Endstop signals and relative positioning - Single hall
Connection diagram
Connection diagram

36XXXX+2KXXXXXX
37XXXX+2KXXXXXX

*YELLOW/GREEN: Endstop signals out are NOT potential free (see specifications on next page)

**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 Single hall that gives a relative positioning feedback signal when the actuator moves. See connection diagram, figure above</td>
<td></td>
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</table>
| Brown | 12, 24 or 36* VDC (+/-)  
*Only available on LA36  
12V ± 20%  
24V ± 10% | To extend actuator:  
Connect Brown to positive  
To retract actuator:  
Connect Brown to negative |
| Blue | 36V ± 10%  
Under normal conditions:  
12V, max. 26A depending on load  
24V, max. 13A 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. 40mA, also when the actuator is not running |
| Black | Signal power supply GND (-) | |
| Green | Endstop signal out | Output voltage min. V<sub>IN</sub> - 2V  
Source current max. 100mA  
NOT potential free |
| Yellow | Endstop signal in | |
| Violet | Single Hall output (PNP)  
Movement per Single Hall pulse:  
LA371C: Actuator = 0.1372 mm per count  
Frequency:  
Frequency is 14-26 Hz on Single Hall output depending on load.  
Overvoltage on the motor can result in shorter pulses. | Output voltage min. V<sub>IN</sub> - 2V  
Max. current output: 12mA  
Max. 680nF  
N.B. For more precise measurements, please contact LINAK A/S.  
Low frequency with a high load.  
Higher frequency with no load |
| **Input:** |  
Hall A  
Hall B |  
**Single hall output:** |
| White | Not to be connected | |
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