Actuator LA14
Endstop signals and relative positioning - Single hall
Connection diagram
Connection diagram

14XXXXXXXX0K0X0X=XX1XXXXXXXXX0X

*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>
</tr>
</thead>
<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>
</tr>
<tr>
<td><strong>Brown</strong></td>
<td>12 or 24 VDC (+/-)</td>
<td>To extend actuator: Connect Brown to positive To retract actuator: Connect Brown to negative</td>
</tr>
<tr>
<td></td>
<td>12V ± 20% 24V ± 10%</td>
<td></td>
</tr>
<tr>
<td><strong>Blue</strong></td>
<td>Under normal conditions: 12V, max. 5 A depending on load 24V, max. 2.5 A depending on load</td>
<td>To extend actuator: Connect Blue to negative To retract actuator: Connect Blue to positive</td>
</tr>
<tr>
<td><strong>Red</strong></td>
<td>Signal power supply (+) 12-24VDC</td>
<td>Current consumption: Max. 40mA, also when the actuator is not running</td>
</tr>
<tr>
<td><strong>Black</strong></td>
<td>Signal power supply GND (-)</td>
<td></td>
</tr>
<tr>
<td><strong>Green</strong></td>
<td>Endstop signal out</td>
<td>Output voltage min. $V_{IN} - 2V$ Source current max. 100mA NOT potential free</td>
</tr>
<tr>
<td><strong>Yellow</strong></td>
<td>Endstop signal in</td>
<td></td>
</tr>
<tr>
<td><strong>Violet</strong></td>
<td>Single Hall output (PNP) Movement per single Hall pulse: LA14020 Actuator = 0.2 mm per pulse LA14040 Actuator = 0.4 mm per pulse Frequency: Frequency is 14-26 Hz on Single Hall output depending on load.</td>
<td>Output voltage min. $V_{IN} - 2V$ 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.</td>
</tr>
<tr>
<td><strong>White</strong></td>
<td>Not to be connected</td>
<td></td>
</tr>
</tbody>
</table>

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**I/O Specifications**

**Input/Output**

- **Description**: The actuator can be equipped with Single hall that gives a relative positioning feedback signal when the actuator moves. See connection diagram, figure above.

**Brown**

- 12 or 24 VDC (+/-)
  - 12V ± 20%
  - 24V ± 10%

**Blue**

- Under normal conditions:
  - 12V, max. 5 A depending on load
  - 24V, max. 2.5 A depending on load

**Red**

- Signal power supply (+) 12-24VDC

**Black**

- Signal power supply GND (-)

**Green**

- Endstop signal out

**Yellow**

- Endstop signal in

**Violet**

- Single Hall output (PNP)
  - Movement per single Hall pulse:
    - LA14020 Actuator = 0.2 mm per pulse
    - LA14040 Actuator = 0.4 mm per pulse
  - Frequency:
    - Frequency is 14-26 Hz on Single Hall output depending on load.

**White**

- Not to be connected
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