Actuator LA33
Relative positioning - Single hall
Connection diagram
Connection diagram

33XXXXXXXXX0KXXXX=XXXX0XXXXXXXX

BROWN
BLUE
RED
VIOLET
BLACK
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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| **Brown** | 12 or 24VDC (+/-)  
12V ± 20%  
24V ± 10%  
Under normal conditions:  
12V, max. 13A depending on load  
24V, max. 9A depending on load | To extend actuator:  
Connect Brown to positive  
To retract actuator:  
Connect Brown to negative |
| **Blue** | | To extend actuator:  
Connect Blue to positive  
To retract actuator:  
Connect Blue to negative |
| **Red** | Signal power supply (+) 12-24VDC | Current consumption:  
Max. 40mA, also when the actuator is not running |
| **Black** | Signal power supply GND (-) | |
| **Green** | Not to be connected | |
| **Yellow** | Not to be connected | |
| **Violet** | Single Hall output (PNP)  
Movement per Single Hall pulse:  
33090: Actuator = 0.3 mm per count  
33150: Actuator = 0.5 mm per count  
33200: Actuator = 1.1 mm per count  
Frequency:  
Frequency is up to 125 Hz on Single Hall output depending on load and spindle. Overvoltage on the motor can result in shorter pulses. | 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. |
| **White** | Not to be connected | |
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