Actuator LA25
LIN Bus
Connection diagram
Connection diagram

Please be aware that if the power supply is not properly connected, you might damage the actuator!

The BusLink software tool is available for LIN bus actuators and can be used for:
Diagnostics, manual run and configuration
The newest version is available online at LINAK.COM/TECHLINE

Please note: The BusLink configuration cable must be purchased separately
Item number for BusLink cable kit: 0147999 (adapter + USB2Lin)
# I/O Specifications

<table>
<thead>
<tr>
<th>Input/Output</th>
<th>Specification</th>
<th>Comments</th>
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<tr>
<td><strong>Description</strong></td>
<td>Each LINAK actuator with LIN bus interface, has the ability to act as LIN bus slave node in the LIN bus cluster. The LIN bus is able to provide feedback information about piston position including, if end stop is reached, error information. System identification data and actual current at runtime. It is also possible to send input commands to the system and invoke actuator movement based on direction.</td>
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| **Brown** | 12-24VDC + (VCC)  
Connect Brown to positive  
12V ± 20% - max. 5A depending on load  
24V ± 10% - max. 2.5A depending on load  
12V, current limit 8A  
24V, current limit 5A | Note: Do not change the power supply polarity on the brown and blue wires!  
Power supply GND (-) is electrically connected to the housing  
Current limit levels can be adjusted through BusLink  
If the temperature drops below 0°C, all current limits will automatically increase to 9A for 12V and 6A for 24V. |
| **Blue** | 12-24VDC - (GND)  
Connect Blue to negative  
12V ± 20% - max. 5A depending on load  
24V ± 10% - max. 2.5A depending on load  
12V, current limit 8A  
24V, current limit 5A | |
| **Red** | Extends the actuator | On/off voltages:  
> 67% of VIN = ON  
< 33% of VIN = OFF  
Input current: 10mA |
| **Black** | Retracts the actuator | |
| **Green** | Endstop signal extended | Output voltage min. VIN - 2V  
Source current max. 100mA  
Endstop signals are NOT potential free. Endstop signals can be configured with BusLink software according to any position needed. |
| **Yellow** | Endstop signal retracted | |
| **Violet** | LIN communication | Used for LIN communication and as service interface. Only BusLink can be used as service interface. |
| **White** | Communication GND | Use blue adapter cable (item no. 0147999) |
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