Connection diagram

25XXXXXXXXXXXXX7X1X=XXXXXXXX0XXXXXXXX

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

The BusLink software tool is available for CAN 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: 0147997 (adapter + USB2Lin)
# I/O Specifications

<table>
<thead>
<tr>
<th>Input/Output</th>
<th>Specification</th>
<th>Comments</th>
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<tbody>
<tr>
<td>Description</td>
<td>Compatible with the SAE J1939 standard. Uses CAN messages to command movement, setting parameters and to deliver feedback from the actuator. Actuator identification is provided, using standard J1939 address claim or fixed addresses. See connection diagram, figure above</td>
<td></td>
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</table>
| 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 \( V_N \) = ON  
    < 33% of \( V_N \) = OFF |
| Black        | Retracts the actuator | |
| Green        | CAN_L | LA25 with CAN bus does not contain the 120Ω terminal resistor. The physical layer is in accordance with J1939-15.*  
    Speed: Baudrate: 250 kbps  
    Max bus length: 40 meters  
    Max stub length: 3 meters | |
| Yellow       | CAN_H | Max node count: 10  
    (can be extended to 30 under certain circumstances)  
    Wiring: Unshielded twisted pair  
    Cable impedance: 120 Ω (±10%) | |
| Violet       | Service interface | Only BusLink can be used as service interface. Use green adapter cable |
| White        | Service interface GND | |

* J1939-15 refers to Twisted Pair and Shielded cables. The standard/default cables delivered with the CAN enabled actuator do not comply with this.

Find more information about the CAN bus actuators in the CAN bus user manual. The newest version is available online at [LINAK.COM/TECHLINE](http://LINAK.COM/TECHLINE)
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