Actuator LA36/LA37
CANbus (J1939)
Connection diagram
Connection diagram

36XXXX+CXXXXXXX
36XXXXXXXXX07XX-XXXXXXXXXXXXXXXXXX
37XXXX+CXXXXXXX

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: 0367997 (adapter + USB2Lin)
# I/O Specifications

<table>
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<tr>
<th>Input/Output</th>
<th>Specification</th>
<th>Comments</th>
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<td><strong>Description</strong></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>
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| **Brown** | 12-24 VDC + (VCC)  
Connect Brown to positive  
12 V ± 20%  
24 V ± 10%  
12 V, current limit 30A  
24 V, current limit 20A  
48 V, current limit 7 A | 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 30 A for 12 V and 25 A for 24 V |
| **Blue** | 12-48 VDC - (GND)  
Connect Blue to negative  
12 V ± 20%  
24 V ± 10%  
48 V ± 10% | |
| **Red** | Extends the actuator | On/off voltages:  
> 67% of VIN = ON  
< 33% of VIN = OFF |
| **Black** | Retracts the actuator | |
| **Green** | CAN_L | LA37 with CAN bus does not contain the 120Ω terminal resistor. The physical layer is in accordance with J1939-15.*  
Speed: Autobaud up to 500 kbps  
(Prototypes: 250 kbps) |
| **Yellow** | CAN_H | Max bus length: 40 meters  
Max stub length: 3 meters  
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 LA37 CANbus 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