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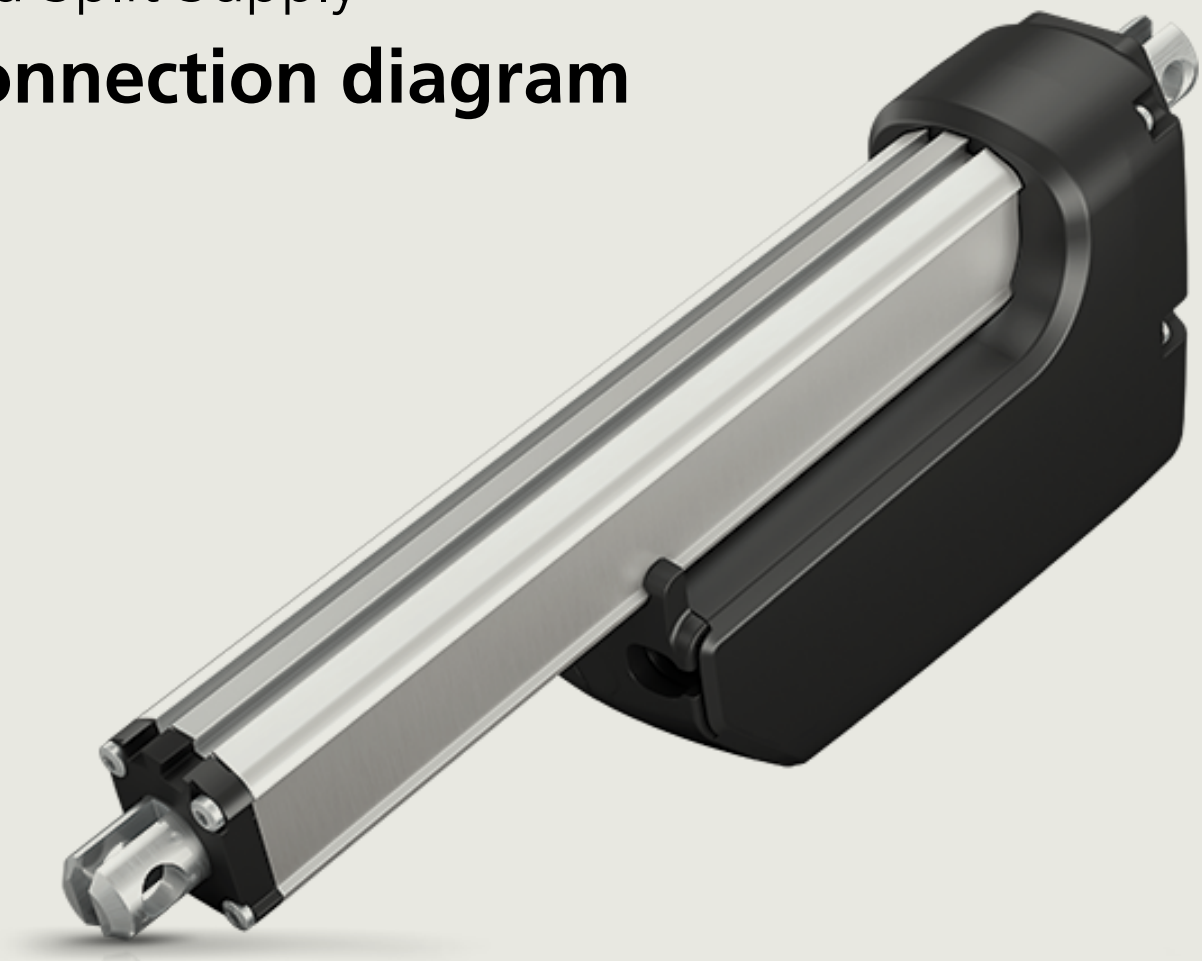
Actuator LA33

With CAN bus J1939, 0-point, Software Addressing and Split Supply

Connection diagram



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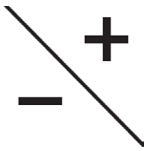
Connection diagram

33XXXXXXXX003X2X=XXXXXX0GXXXXX

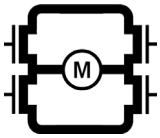


		Power
24/48 V DC +	**BROWN**	**2**
GND -	**BLUE**	**1**

AMP

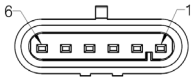
Deutsch

		Signal
Split power supply	**ORANGE**	**5**
Digital input	**RED**	**1**
Digital input	**BLACK**	**2**
Not to be connected	**LIGHT BLUE**	**6**
Bus	**YELLOW**	**3**
Bus	**GREEN**	**4**
Not to be connected	**GREY**	**0**
Data	**VIOLET**	**7**
Data GND	**WHITE**	**8**



Service-Interface

AMP



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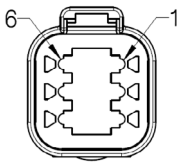

The BusLink software tool is available for CAN bus actuators and can be used for:

Diagnostics, manual run and configuration

The newest version is available online here.

Please note: The BusLink configuration cable must be purchased separately

Item number for BusLink cable kit: 0367997 (adapter + USB2Lin)

I/O specifications

<table>
<tr><th>Input/Output</th><th>Specification</th><th>Comments</th></tr>
<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. See the LINAK® CAN bus user manual.
Actuator identification is provided, using standard J1939 SW addressing.</td><td>CAN SAE J1939</td></tr>
<tr><td>Brown
Connect to positive</td><td>24-48 V DC + (VCC)
Connect Brown to positive
<table>
<tr><th>Vsup</th><th>Vmin</th><th>Vmax</th><th></th></tr>
<tr><td rowspan="2">24 V</td><td>16 V</td><td>36 V</td><td>Motor running</td></tr>
<tr><td>10 V</td><td>60 V</td><td>Motor not running
CAN communication possible</td></tr>
<tr><td rowspan="2">48 V</td><td>36 V</td><td>58 V</td><td>Motor running</td></tr>
<tr><td>24 V</td><td>60 V</td><td>Motor not running
CAN communication possible</td></tr>
</table>
24 V, current limit 13 A
48 V, current limit 8 A</td><td rowspan="2">Note: Do not swap the power supply polarity on the Brown and Blue wires!
The PCB is coupled to the housing through a capacitor.
Current limit levels can be adjusted through Actuator Connect®.
If the temperature drops below 0 °C, all current limits will automatically increase with a factor 2.</td></tr>
<tr><td>Blue</td><td>- (GND)
Connect Blue to negative</td></tr>
<tr><td>Orange</td><td>Split supply:
24 V DC with ≈ 28 mA current consumption
48 V DC with ≈ 16 mA current consumption
Connect to positive. The split supply uses the common GND from the power supply</td><td>Split supply is for operational power only.</td></tr>
<tr><td>Red</td><td>Extends the actuator</td><td rowspan="2">The signal becomes active at:
> 67% of V_{IN} = ON
The signal becomes inactive at:
< 33% of V_{IN} = OFF</td></tr>
<tr><td>Black</td><td>Retracts the actuator</td></tr>
<tr><td>Light Blue</td><td>Not to be used</td><td>Not to be used</td></tr>
</table>

Input/Output	Specification	Comments
Green	CAN_L	Actuators with CAN bus does not contain the 120 Ω terminal resistor. The physical layer is in accordance with J1939-15. * Speed: Autobaud up to 500 kbps 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
Yellow	CAN_H	
Violet	Service interface	Only Actuator Connect® can be used as service interface. Use grey adapter cable
White	Service interface GND	

* J1939-15 refers to Twisted Pair and Shielded cables. The standard/default cables delivered with CAN bus actuators do not comply with this. Find more information about the CAN bus in the CAN bus user manual - The newest version is available online here.

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