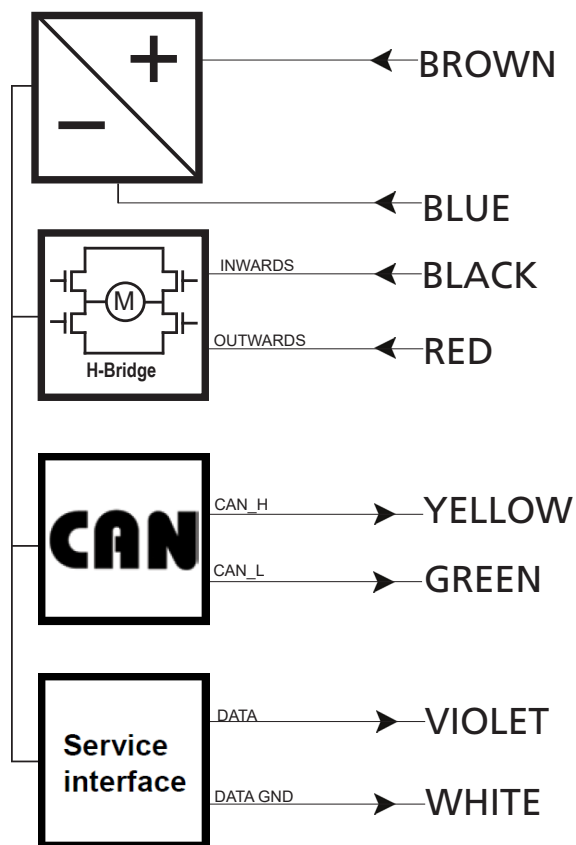




Actuator LA33  
CAN Bus  
*Connection diagram*

# Connection diagram

33XXXXXXCDXXXXXX




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](https://www.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

Input/Output	Specification	Comments
Description	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	
Brown	12-24VDC + (VCC) Connect Brown to positive 12V ± 20% 24V ± 10% 12V, current limit 15A 24V, current limit 10A	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 20A for 12V 15A for 24V
Blue	12-24VDC - (GND) Connect Blue to negative 12V ± 20% 24V ± 10%	
Red	Extends the actuator	On/off voltages: > 67% of $V_{IN}$ = ON < 33% of $V_{IN}$ = 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 (CAN Bus prior to version 3.0 up to 250 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 Cable impedance: 120 Ω (±10%)
Yellow	CAN_H	
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 LA33 CAN do not comply with this. BusLink cables must be purchased separately from the actuator!

Find more information about the CAN bus actuators in the CAN bus user manual

The newest version is available online at [LINAK.COM/TECHLINE](https://www.linak.com/techline)

---

**Terms of use**

The user is responsible for determining the suitability of LINAK products for specific application. LINAK takes great care in providing accurate and up-to-date information on its products.

However, due to continuous development in order to improve its products, LINAK products are subject to frequent modifications and changes without prior notice. Therefore, LINAK cannot guarantee the correct and actual status of said information on its products.

While LINAK uses its best efforts to fulfill orders, LINAK cannot, for the same reasons as mentioned above, guarantee the availability of any particular product. Therefore, LINAK reserves the right to discontinue the sale of any product displayed on its website or listed in its catalogues or other written material drawn up by LINAK.

All sales are subject to the Standard Terms of Sale and Delivery for LINAK. For a copy hereof, please contact LINAK.