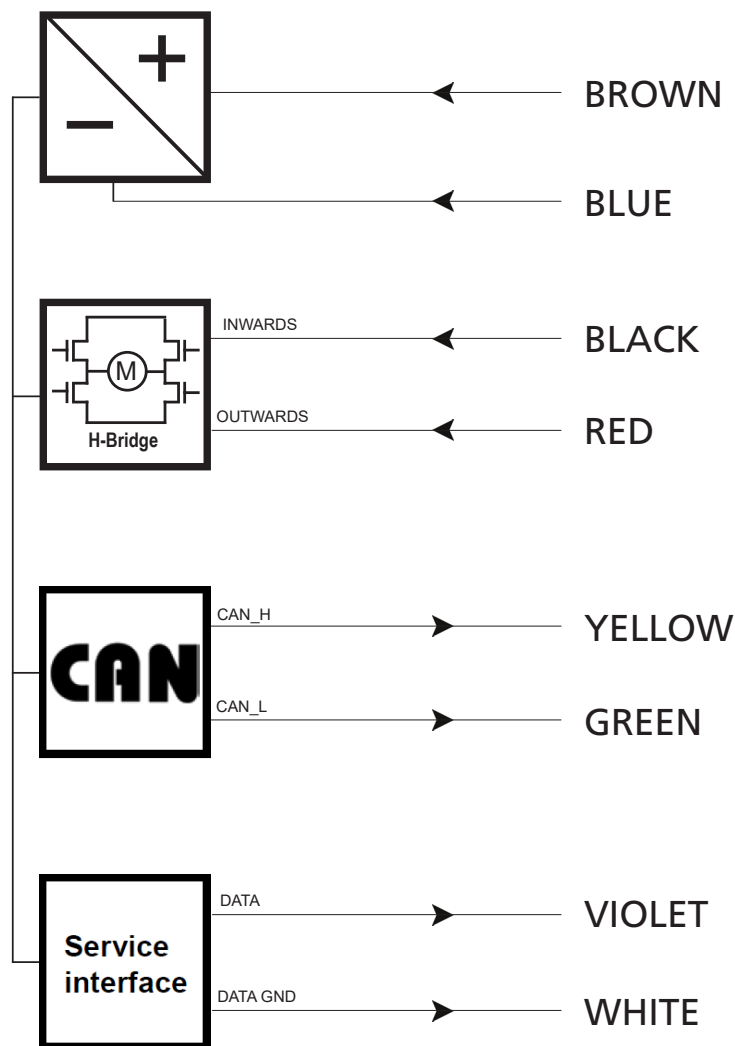




Actuator LA14  
CAN bus  
*Connection diagram*

# Connection diagram

14XXXXXXCDXXXXXX




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% 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 both 12V and 24V
Blue	12-24VDC - (GND) Connect Blue to negative 12V ± 20% max. 5A depending on load 24V ± 10% max. 2.5A depending on load	
Red	Extends the actuator	On/off voltages: > 67% of $V_{IN}$ = ON < 33% of $V_{IN}$ = OFF
Black	Retracts the actuator	
Green	CAN_L	LA14 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 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 LA14 CAN 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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