

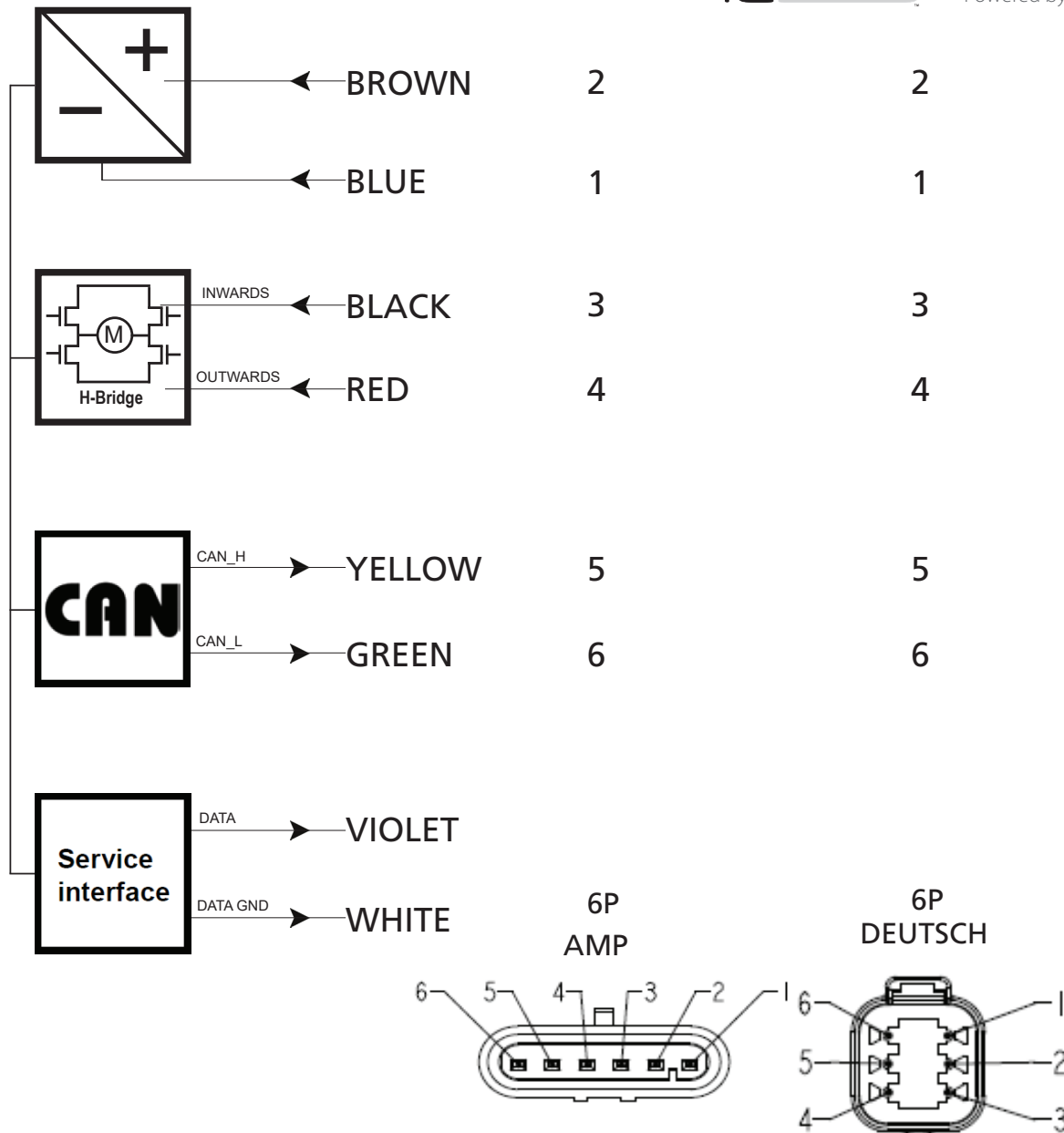


Actuator LA14
CANbus J1939
Connection diagram

Connection diagram

14XXXXXXXXXXXX7X1X=XXXXXXXXXXXXXXXX

Compliant with:



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

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.	
Brown	12-24 VDC + (VCC) Connect Brown to positive 12 V ± 20% max. 5 A depending on load 24 V ± 10% max. 2.5 A depending on load 12 V, current limit 8 A 24 V, current limit 5 A	<p>Note:</p> <p>Do not change the power supply polarity on the brown and blue wires!</p> <p>Power supply GND (-) is electrically connected to the housing</p> <p>Current limit levels can be adjusted through BusLink</p> <p>If the temperature drops below 0° C, all current limits will automatically increase to 9 A for both 12 V and 24 V</p>
Blue	12-24VDC - (GND) Connect Blue to negative 12 V ± 20% max. 5 A depending on load 24 V ± 10% max. 2.5 A depending on load 12 V, current limit 8 A 24 V, current limit 5 A	
Red	Extends the actuator	<p>On/off voltages:</p> <p>> 67% of V_{IN} = ON</p> <p>< 33% of V_{IN} = OFF</p>
Black	Retracts the actuator	
Green	CAN_L	<p>LA14 with CAN bus does not contain the 120 Ω terminal resistor. The physical layer is in accordance with J1939-15.*</p> <p>Speed: Baudrate: 250 kbps</p> <p>Max bus length: 40 meters</p> <p>Max stub length: 3 meters</p> <p>Max node count: 10 (can be extended to 30 under certain circumstances)</p> <p>Wiring: Unshielded twisted pair</p> <p>Cable impedance: 120 Ω (±10%)</p>
Yellow	CAN_H	
Violet	Service interface	<p>Only BusLink can be used as service interface. Use green adapter cable</p>
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](https://www.linak.com/techline)

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