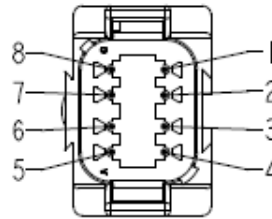




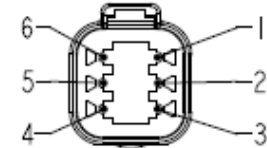
Actuator LA33  
CANopen  
*Connection diagram*

# Connection diagram

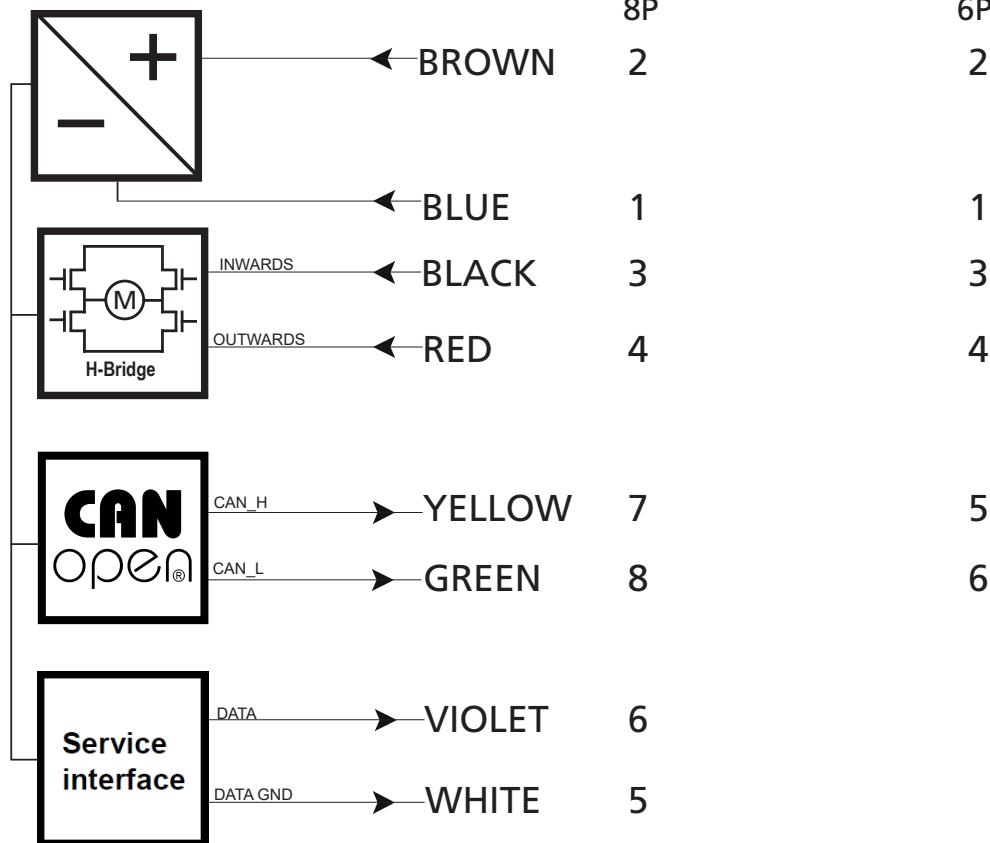
33XXXX+EXXXXXXX



DEUTSCH  
8P



DEUTSCH  
6P




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](http://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 CiA 301 standard. Using CANopen messages to command movement, setting parameters and to deliver feedback from the actuator. Actuator identification is provided, using standard CiA 301 address claim or fixed addresses	
Brown	12-24VDC + (VCC) Connect Brown to positive 12V ± 20% 24V ± 10% 12V, current limit 15A 24V, current limit 10A	<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 20A for 12V 15A for 24V</p>
Blue	12-24VDC - (GND) Connect Blue to negative 12V ± 20% 24V ± 10%	
Red	Extends the actuator	<p>On/off voltages:</p> <p>&gt; 67% of <math>V_{IN}</math> = ON</p> <p>&lt; 33% of <math>V_{IN}</math> = OFF</p>
Black	Retracts the actuator	
Green	CAN_L	<p>CANopen assumes a physical layer according to ISO 11898-2.</p> <p>Speed: Autobaud up to 250 kbps (Prototypes: 125 kbps)</p> <p>Max bus length @ 125 kbps: 500 meters Max bus length @ 250 kbps: 250 meters Max bus length @ 500 kbps: 100 meters Max stub length @ 125 kbps: 22 meters Max stub length @ 250 kbps: 11 meters Max stub length @ 500 kbps: 5,5 meters Max node count: 127</p> <p>Wiring: Unshielded twisted pair 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	

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