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Actuator LA25
CANopen
Connection diagram

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Connection diagram

25XXXXXXXXXX9B1X=XXXXX0XXXXXXX

BROWN	2		2
BLUE	1		1
BLACK (INWARDS)	3		3
RED (OUTWARDS)	4		4
YELLOW (CAN_H)	5		5
GREEN (CAN_L)	6		6
VIOLET (DATA)			
WHITE (DATA GND)			

H-Bridge

Service interface

6P AMP

6P DEUTSCH

Standard connector front view
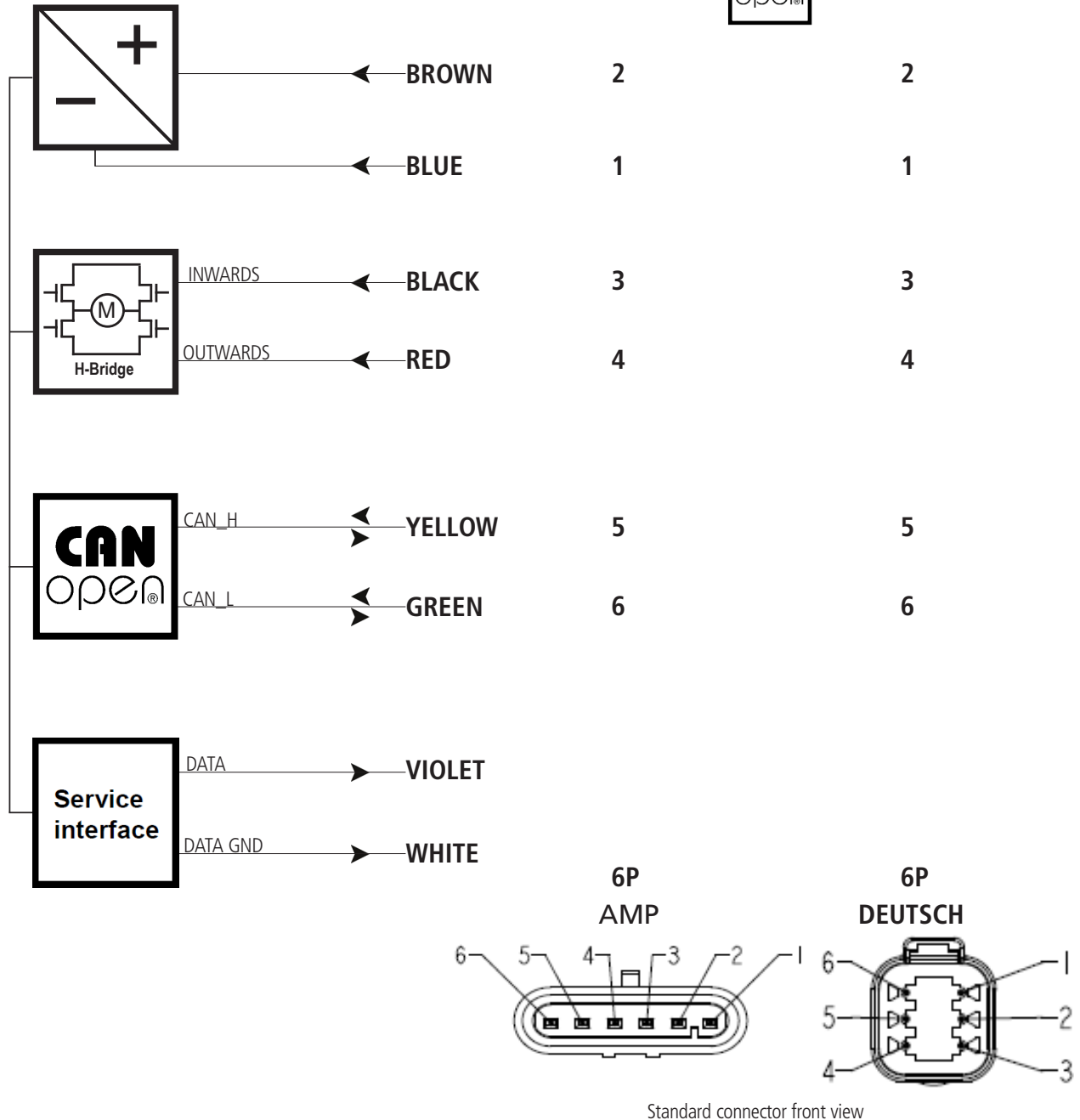
Please be aware that if the power supply is not properly connected, you might damage the actuator!

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 seperately
Item number for BusLink cable kit: 0147997 (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% - 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 12V and 6A for 24V.
Blue	12-24VDC - (GND) Connect Blue to negative 12V ± 20% - max. 5A depending on load 24V ± 10% - max. 2.5A depending on load 12V, current limit 8A 24V, current limit 5A	
Red	Extends the actuator	On/off voltages: $> 67\%$ of V_{IN} = ON $< 33\%$ of V_{IN} = OFF
Black	Retracts the actuator	
Green	CAN_L	CANopen assumes a physical layer according to ISO 11898-2. Speed: Autobaud up to 250 kbps (Prototypes: 125 kbps) 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 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	

(i) * CiA 301 refers to Twisted Pair and Shielded cables. The standard/default cables delivered with the CANopen enabled actuator do not comply with this.

Find more information about the CANopen actuators in the CANopen user manual
The newest version is available online at **LINAK.COM/**TECHLINE

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