Actuator LA14
LIN Bus
Connection diagram

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Connection diagram

14XXXXXXXXXX6X1X=XXXXXXXXXXXXX

	BROWN	2
	BLUE	1

INWARDS
BLACK 3

OUTWARDS
RED 4

H-Bridge

IN — YELLOW 7

OUT — GREEN 8

COMMUNICATION
VIOLET 6

COMMUNICATION GND
WHITE 5

8P
DEUTSCH
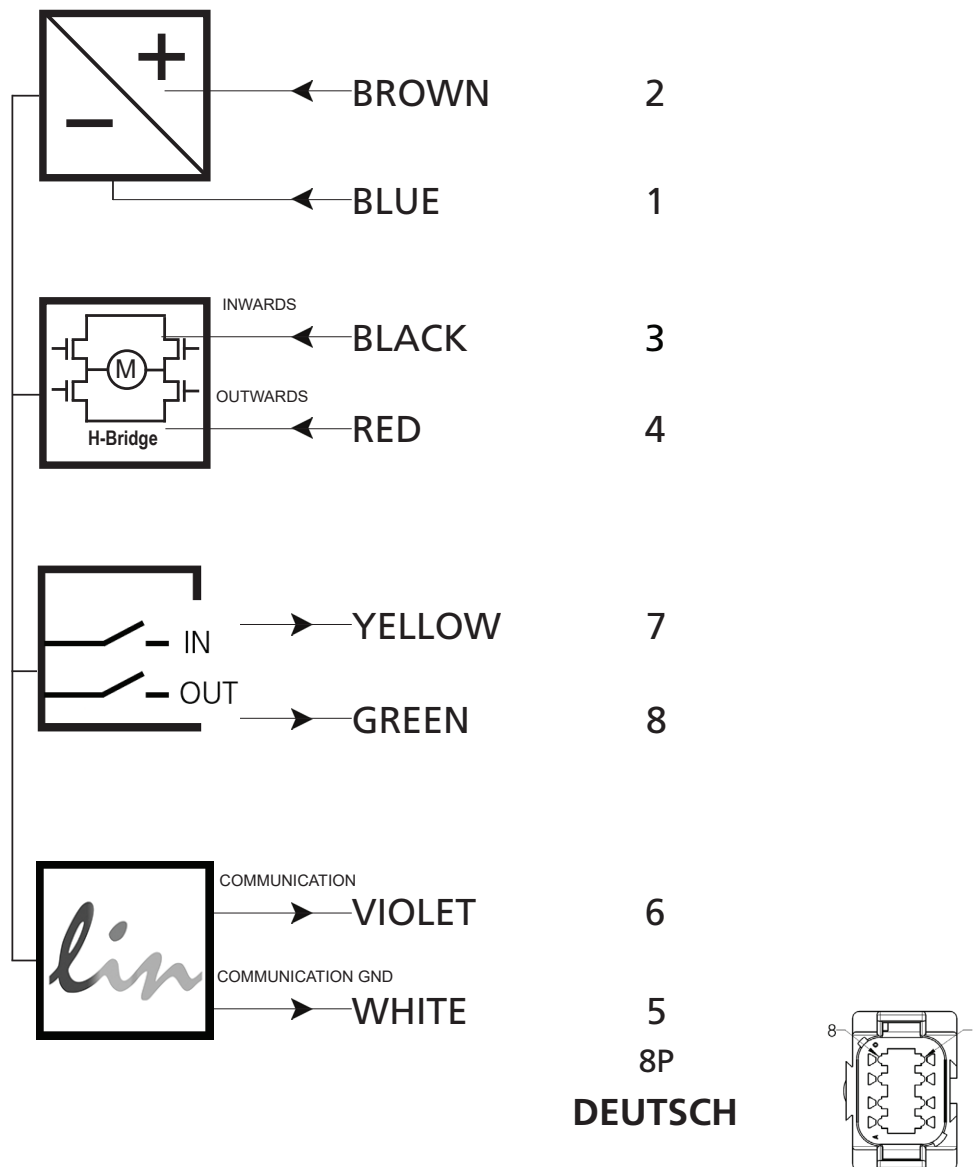
Please be aware that if the power supply is not properly connected, you might damage the actuator!

The BusLink software tool is available for LIN 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: 0147996 (adapter + USB2Lin)

FOR MOUNTING INSTRUCTIONS AND GUIDANCE IN USAGE, PLEASE SEE THE RELEVANT USER MANUALS

I/O Specifications

Input/Output	Specification	Comments
Description	Each LINAK actuator with LIN bus interface, has the ability to act as LIN bus follower node in the LIN bus cluster. The LIN bus is able to provide feedback information about piston position including, if end stop is reached, error information.System identification data and actual current at runtime. It is also possible to send input commands to the system and invoke actuator movement based on direction.	
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	<u>Note:</u> Do not change the power supply polarity on the brown and blue wires! Power supply GND (-) is electrically connected to the housing
Blue	12-24 VDC - (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	Current limit levels can be adjusted through BusLink If the temperature drops below 0°C, all current limits will automatically increase to 9 A for 12 V and 6 A for 24 V.
Red	Extends the actuator	On/off voltages: > 67% of V_{IN} = ON < 33% of V_{IN} = OFF Input current: 10mA
Black	Retracts the actuator	
Green	Endstop signal extended	Output voltage min. V_{IN} - 2 V Source current max. 100 mA Endstop signals are NOT potential free. Endstop signals can be configured with BusLink software according to any position needed.
Yellow	Endstop signal retracted	
Violet	LIN communication	Used for LIN communication and as service interface. Only BusLink can be used as service interface. Use blue adapter cable (item no. 0147999)
White	Communication GND	

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