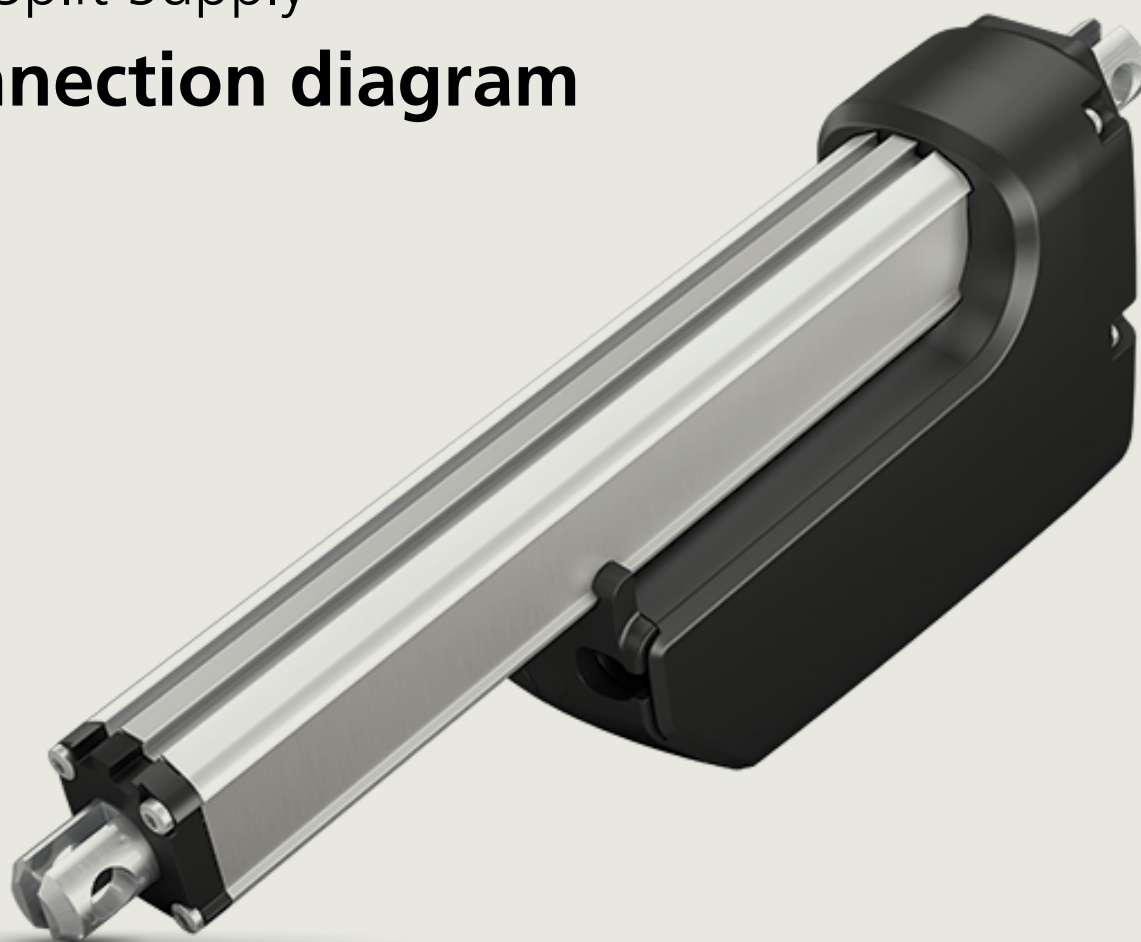


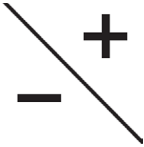
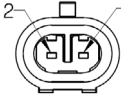

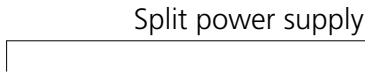
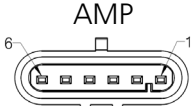
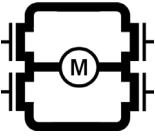
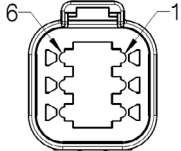


Actuator LA33
With CAN bus J1939, 0-point,
Hardware Addressing
and Split Supply

Connection diagram



Connection diagram

33XXXXXXXXX003X2X=XXXXXX0GXXXXX

				Power		AMP	Deutsch
	24/48 V DC +	BROWN		2			
	GND -	BLUE		1			
		ORANGE		5			
	Digital input Hardware addressing 2	RED		1			
	Digital input Hardware addressing 1	BLACK		2			
	Hardware addressing 3	LIGHT BLUE		6			
	Bus	YELLOW		3			
	Bus	GREEN		4			
	<u>Not to be connected</u>	GREY		0			
	Data	VIOLET		7			
	Data GND	WHITE		8			



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 [here](#).



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	<p>Compatible with the SAE J1939 standard. Uses CAN messages to command movement, setting parameters and to deliver feedback from the actuator.</p> <p>Actuator identification is provided, using standard J1939 address claim or fixed addresses.</p>					
Brown Connect to positive	24-48 V DC + (VCC) Connect Brown to positive	<p>Note: Do not swap the power supply polarity on the Brown and Blue wires! The PCB is coupled to the housing through a capacitor.</p> <p>Current limit levels can be adjusted through Actuator Connect®.</p> <p>If the temperature drops below 0 °C, all current limits will automatically increase with a factor 2.</p>				
	Vsup			Vmin	Vmax	
	24 V			16 V	36 V	Motor running
				10 V	60 V	Motor not running CAN communication possible
	48 V			36 V	58 V	Motor running
24 V		60 V	Motor not running CAN communication possible			
24 V, current limit 13 A 48 V, current limit 8 A						
Blue Connect to negative	- (GND)					
Red	Extends the actuator/ Hardware addressing (2)	Manual run If not connected to VCC at startup:	HW addressing When used for Hardware addressing connect to VCC or negative (GND)			
Black	Retracts the actuator/ Hardware addressing (1) The signal becomes: active at: > 67% of V_{IN} inactive at: < 33% of V_{IN} Input current: 10 mA					

Input/Output	Specification	Comments
Green	Can_L	Actuators with CAN bus does not contain the 120 Ω terminal resistor. The physical layer is in accordance with J1939-15.* Speed: Autobaud up to 500 kbps (CAN bus prior to version 3.0 up to 250 kbps)
Yellow	Can_H	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 %)
Orange	Split supply: 24 V DC with ≈ 28 mA current consumption 48 V DC with ≈ 16 mA current consumption Connect to positive. The split supply uses the common GND from the power supply	Split supply is for operational power only.
Light Blue	HW addressing (3)	When used for Hardware addressing connect to VCC or negative (GND)
Violet	Service interface	Only Actuator Connect® can be used as service interface.
White	Service interface GND	Use Grey adapter cable



* J1939-15 refers to Twisted Pair and Shielded cables.

The standard/default cables delivered with CAN actuators do not comply with this.

Terms of use

LINAK® takes great care in providing accurate and up-to-date information on its products. However, the user is responsible for determining the suitability of LINAK products for a specific application. Due to continual development, LINAK products are subject to frequent modifications and changes. LINAK reserves the rights to conduct modifications, updates, and changes without any prior notice. For the same reason, LINAK cannot guarantee the correctness and actual status of imprinted information on its products.

LINAK uses its best efforts to fulfil orders. However, for the reasons mentioned above, LINAK cannot guarantee availability of any particular product at any given time. LINAK reserves the right to discontinue the sale of any product displayed on its website or listed in its catalogues or in other written material created and produced by LINAK, LINAK subsidiaries, or LINAK affiliates. All sales are subject to the 'Standard Terms of Sale and Delivery for LINAK A/S' available on LINAK websites. LINAK and the LINAK logotype are registered trademarks of LINAK A/S. All rights reserved.