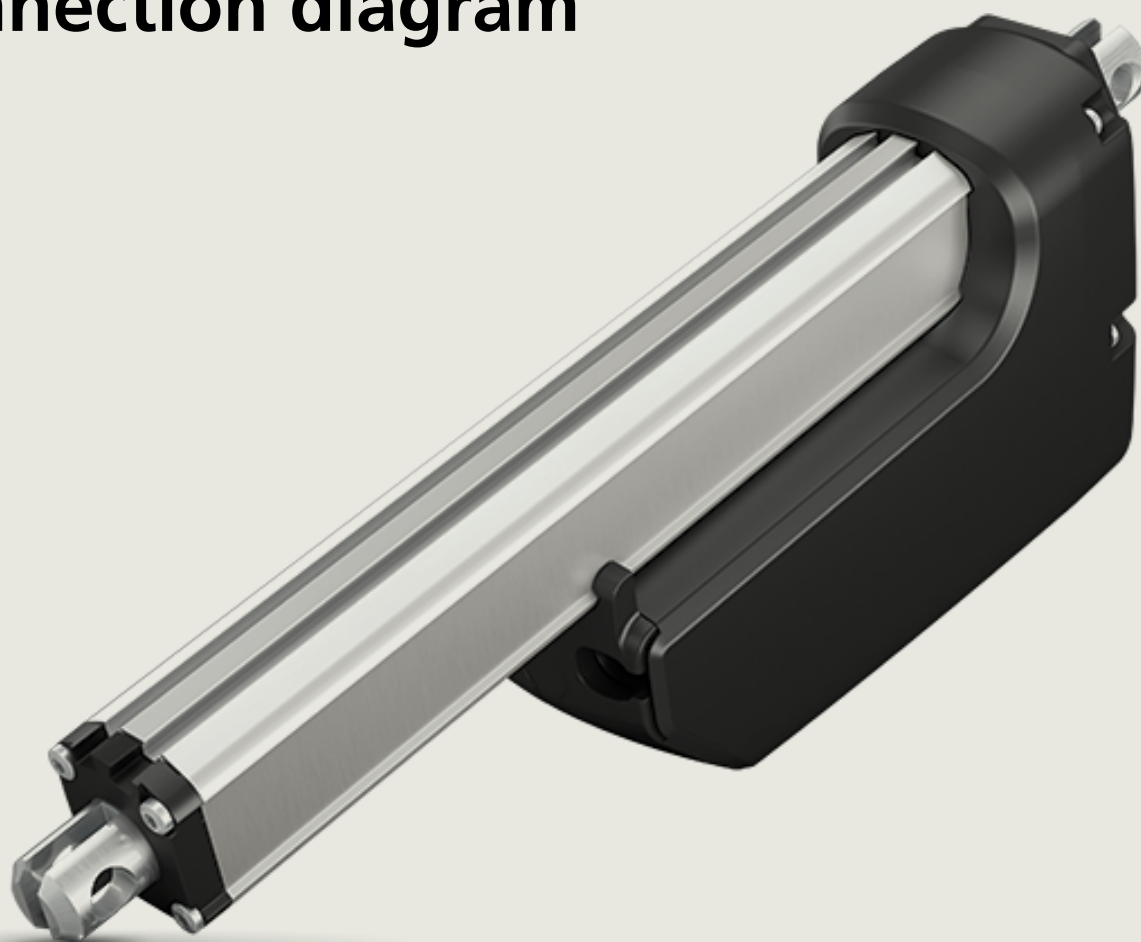
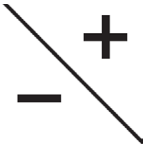
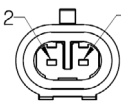

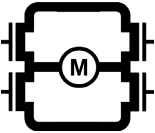
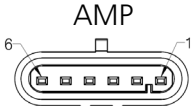
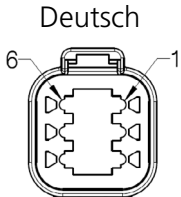




Actuator LA33
With CANopen 0-point
and Split Supply
Connection diagram




Connection diagram

33XXXXXXXX003X2X=XXXXXX0HXXXXX

	24/48 V DC +	BROWN	Power	2	 
	GND -	BLUE		1	
	Split power supply	ORANGE	Signal	5	 
	Digital input	RED		1	
	Digital input	BLACK		2	
	Not to be connected	LIGHT BLUE		6	
	Bus	YELLOW		3	
	Bus	GREEN		4	
	Not to be connected	GREY		0	
	Data	VIOLET		7	
	Data GND	WHITE		8	

I/O specifications

Input/Output	Specification	Comments																		
Description	Compatible with the CiA 301 standard. Uses CANopen messages to command movement, setting parameters and to deliver feedback from the actuator. Actuator support LSS																			
Brown Connect to positive	24-48 V DC + (VCC) Connect Brown to positive	Note: Do not swap the power supply polarity on the Brown and Blue wires! The PCB is coupled to the housing through a capacitor. Current limit levels can be adjusted through Actuator Connect®. If the temperature drops below 0 °C, all current limits will automatically increase with a factor 2.																		
	<table border="1"> <thead> <tr> <th>Vsup</th> <th>Vmin</th> <th>Vmax</th> <th></th> </tr> </thead> <tbody> <tr> <td rowspan="2">24 V</td> <td>16 V</td> <td>36 V</td> <td>Motor running</td> </tr> <tr> <td>10 V</td> <td>60 V</td> <td>Motor not running CAN communication possible</td> </tr> <tr> <td rowspan="2">48 V</td> <td>36 V</td> <td>58 V</td> <td>Motor running</td> </tr> <tr> <td>24 V</td> <td>60 V</td> <td>Motor not running CAN communication possible</td> </tr> </tbody> </table>		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
	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)																			
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.																		
Red	Extends the actuator	The signal becomes active at: $> 67\%$ of V_{IN} = ON The signal becomes inactive at: $< 33\%$ of V_{IN} = OFF Input current: 10 mA																		
Black	Retracts the actuator																			
Light Blue	Not to be used	Not to be used																		

Input/Output	Specification	Comments
Green	CAN_L	CANopen assumes a physical layer according to ISO 11898-2. Speed: Autobaud up to 500 kbps Max. bus length at 125 kbps: 500 meters Max. bus length at 250 kbps: 250 meters Max. bus length at 500 kbps: 100 meters Max. stub length at 125 kbps: 22 meters Max. stub length at 250 kbps: 11 meters Max. stub length at 500 kbps: 5,5 meters Max. node count: 127 Wiring: Unshielded twisted pair
Yellow	CAN_H	
Violet	Service interface	Only Actuator Connect® can be used as service interface. Use Grey adapter cable
White	Service interface GND	

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