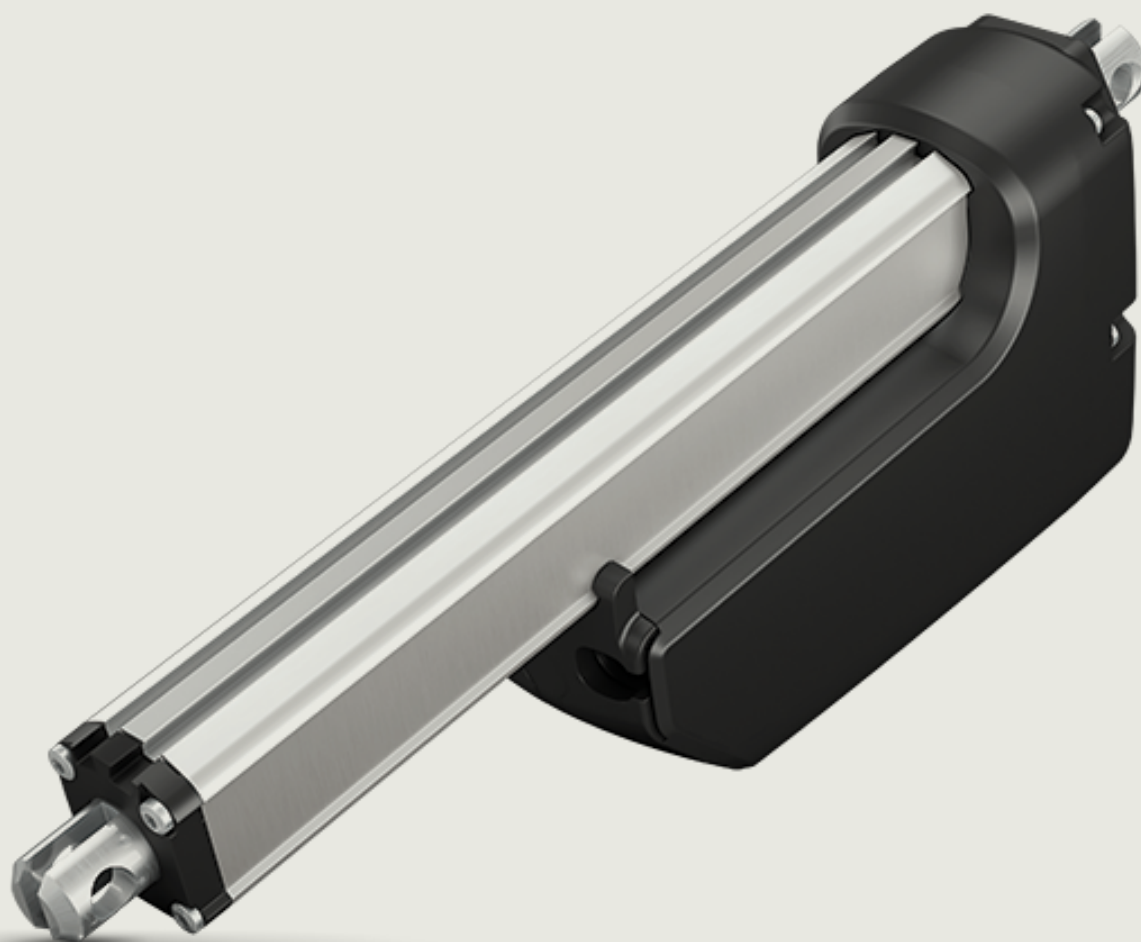


Actuator LA33 With IC Basic **Connection diagram**



Connection diagram

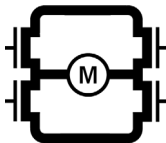
33XXXXXXXXXX3XXX=XXXXXXX1XXXXX

	24/48 V DC +	BROWN	Power	2		
	GND -	BLUE		1		
	Digital input	RED	Signal	2		
	Digital input	BLACK		1		
	Digital output	YELLOW		5		
	Digital output	GREEN		6		



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

I/O specifications

Input/Output	Specification	Comments
Description	Easy-to-use interface with integrated power electronics (H-bridge). The version with "IC option" cannot be operated with PWM (power supply).	
Brown	12 - 24 V DC + (VCC) 12 V \pm 20 % 24 V \pm 10 % 12 V, max. 13 A - current cut off at 15 A 24 V, max. 9 A - current cut off at 10 A	<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>If the temperature drops below 0 °C, all current limits will automatically increase to 20 A for 12 V and 15 A for 24 V</p>
Blue	12-24 V DC - (GND) Connect Blue to negative	
Red	Extends the actuator	<p>The signal becomes active at: > 67% of V_{IN}</p> <p>The signal becomes inactive at: < 33% of V_{IN}</p> <p>Input current: 10 mA</p>
Black	Retracts the actuator	
Green	Endstop reached out	<p>Output voltage min. $V_{IN} - 2\text{ V}$ Source current max. 100 mA</p> <p>Endstop Signals are NOT potential free. Endstop reached can be configured with BusLink software according to any position needed</p> <p>When configuring virtual endstop, it is not necessary to choose the position feedback</p> <p>Endstop reached and virtual endstop will work even when feedback is not chosen</p>
Yellow	Endstop reached in	
Violet	Not to be connected	
White	Not to be connected	



Current cut-offs should not be used as stop function! This might damage the actuator.
Current cut-offs should only be used in emergencies!

Current cut-off limits are not proportional with the load curves of the actuator.
This means that the current cut-offs cannot be used as load indicator.

There are tolerances on the spindle, nut, gear wheels etc. and these tolerances will have an influence on the current consumption for the specific actuator.

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