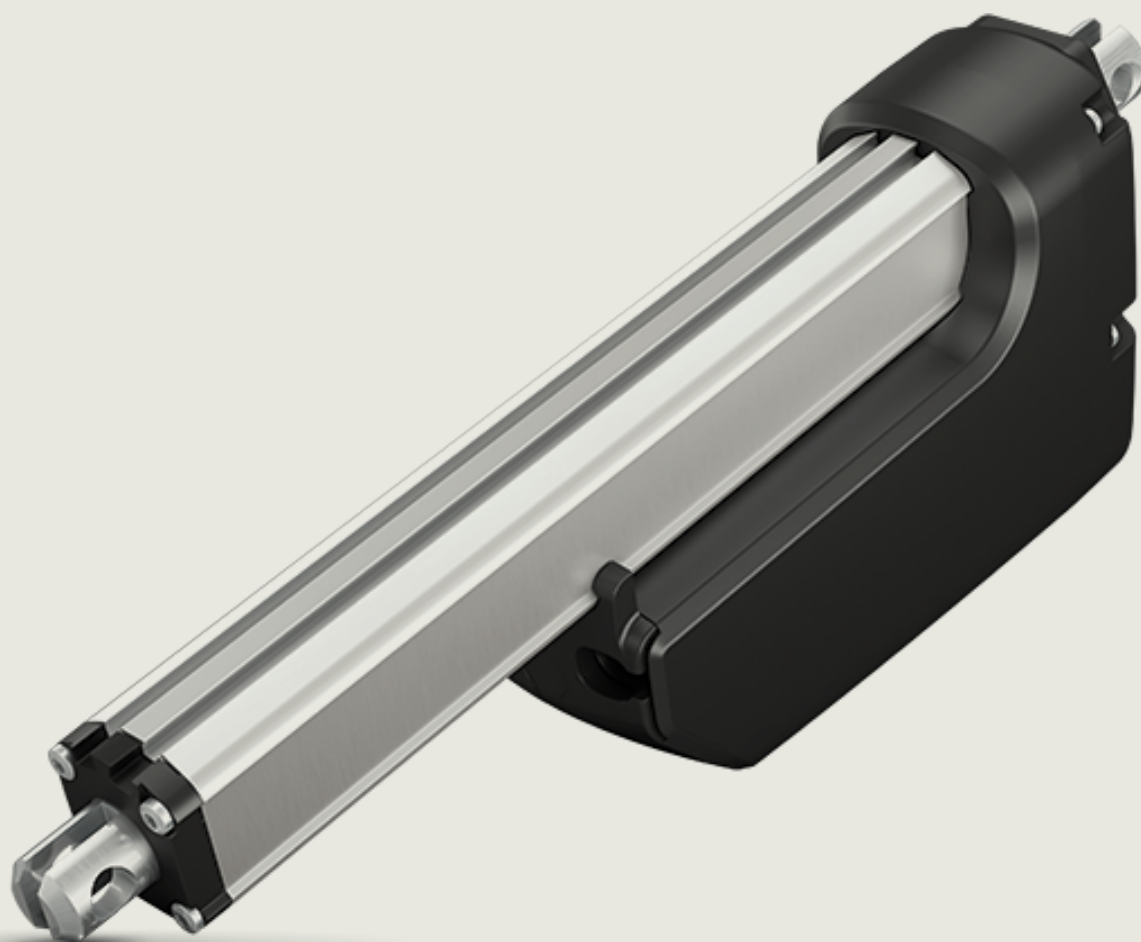
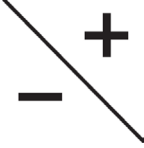
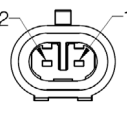
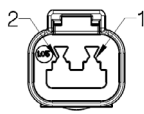
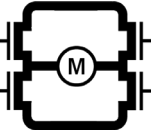
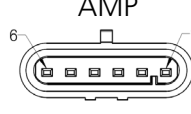
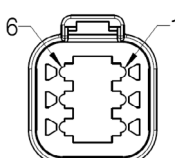
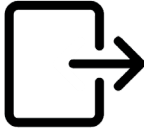
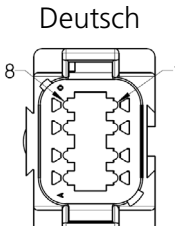
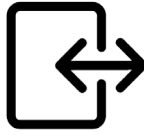
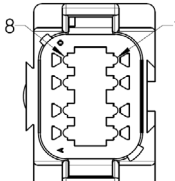
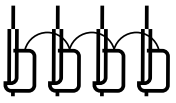
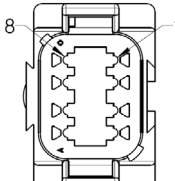



Actuator LA33 With I/O Customised or Full **Connection diagram**



Connection diagram

33XXXXXXXXXXXX3X2X=XXXXXXXXXXXX
F

	24/48 V DC +	BROWN	Power	2		
	GND -	BLUE		1		
	Digital input	RED	Signal	1		
	Digital input	BLACK		2		
	Digital output	YELLOW		3		
	Digital output	GREEN		4		
	Analog output + or Digital input	ORANGE Not used or customisable*		5		
	Analog output - or Digital input	LIGHT BLUE Not used or customisable*		6		
	Parallel	VIOLET Not used or customisable*		7** Alt. 5		
	Parallel GND	WHITE Not used or customisable*		8** Alt. 6		
	Bluetooth® Antenna	GREY		0		





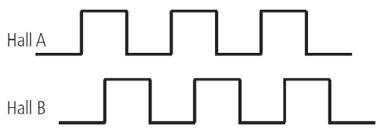
*Customisable: The I/O Customised actuator is configured based on customer needs - for detailed information about wire functionality, please see the [auto-generated data sheet](#) (type in J-number from product label)

The I/O Full actuator is configured like an I/O Basic from factory, but with full access to all features. Connect the actuator to Actuator Connect™ via Bluetooth® or a USB adapter cable (must be purchased separately), to enable and configure various features.

**If 'endstop reached' is not used, a 6-pin connector can be chosen, where the alternative pins are used.

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I/O specifications

Input/Output	Specification	Comments
Description	<p>IC - I/O is a universal industrial interface developed by LINAK®.</p> <p>I/O is a common term used, to describe inputs and outputs</p> <p>As part of the IC (Integrated Controller) range, the IC - I/O interface it is offering a range of flexible digital and analogue in- and outputs. It can be deployed through all industries.</p>	
Brown	<p>24-48 V DC + (VCC)</p> <p>24 V, current limit 13 A</p> <p>48 V, current limit 8 A</p>	<p>Note: Do not swap the power supply polarity on the Brown and Blue wires!</p> <p>The PCB is coupled to the housing through a capacitor.</p> <p>Current limit levels can be adjusted through Actuator Connect®.</p>
Blue	<p>- (GND)</p> <p>Connect Blue to negative</p>	<p>If the temperature drops below 0 °C, all current limits will automatically increase with a factor 2.</p>
Red	<p>Extends the actuator features*:</p> <ul style="list-style-type: none"> -Standard run (Default for Full version) -Impulse run -Servo (+) -Proportional (+) 	<p>The signal becomes active at: $\geq 67\%$ of $V_{IN} = ON$</p> <p>The signal becomes inactive at: $\leq 33\%$ of $V_{IN} = OFF$</p> <p>Input current: 10 mA</p>
Black	<p>Retracts the actuator features*:</p> <ul style="list-style-type: none"> -Standard run (Default for Full version) -Impulse run -Servo (-) -Proportional (-) 	
Yellow	<p>Digital position output features*:</p> <ul style="list-style-type: none"> - Endstop reached (inwards) (Default for Full version) - Endstop zone reached (inwards) - Actuator running - Constantly low - Constantly high - Single hall XOR - Dual hall (A) 	<p>Digital outputs:</p> <p>The digital outputs are either active high or active low, depending on the preferred signal type.</p> <ul style="list-style-type: none"> - Output voltage min. $V_{IN} - 2 V$ - Source current max. 100 mA
Green	<p>Digital position output features*:</p> <ul style="list-style-type: none"> - Endstop reached (outwards) (Default for Full version) - Endstop zone reached (outwards) - Actuator running - Constantly low - Constantly high - Single hall XOR - Dual hall (B) 	<p>Single Hall XOR:</p>  <p>Dual Hall:</p> 

Input/Output	Specification	Comments
Orange	Analogue output or Digital input feature*: -Analogue feedback (+) -Predefined position 1 -Run condition	Customisable or not used (Default for Full version)
Light Blue	Analogue output or Digital input features*: -Analogue feedback (-) -Predefined position 2	Customisable or not used (Default for Full version)
Violet	Parallel communication*	Customisable or not used (Default for Full version) The Parallel drive function will support up to 8 actuators running simultaneously. It is possible to run parallel with a main power supply or separate power supplies
White	Parallel common GND	Only to be connected to other Parallel GND and only in parallel systems
Grey	Antenna for Bluetooth®	The Grey wire is used to strengthen the Bluetooth signal, allowing a stable wireless connection and has no functionality during operation.



* Customisable: The I/O Customised actuator is configured based on customer needs - for detailed information about wire functionality, please see the [auto-generated data sheet](#) (type in J-number from product label in the 'Tools' roll down menu).

The I/O Full actuator is configured like an I/O Basic from factory, but with full access to all features. Connect the actuator to Actuator Connect™ via Bluetooth® or a USB adapter cable (must be purchased separately), to enable and configure various features.

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