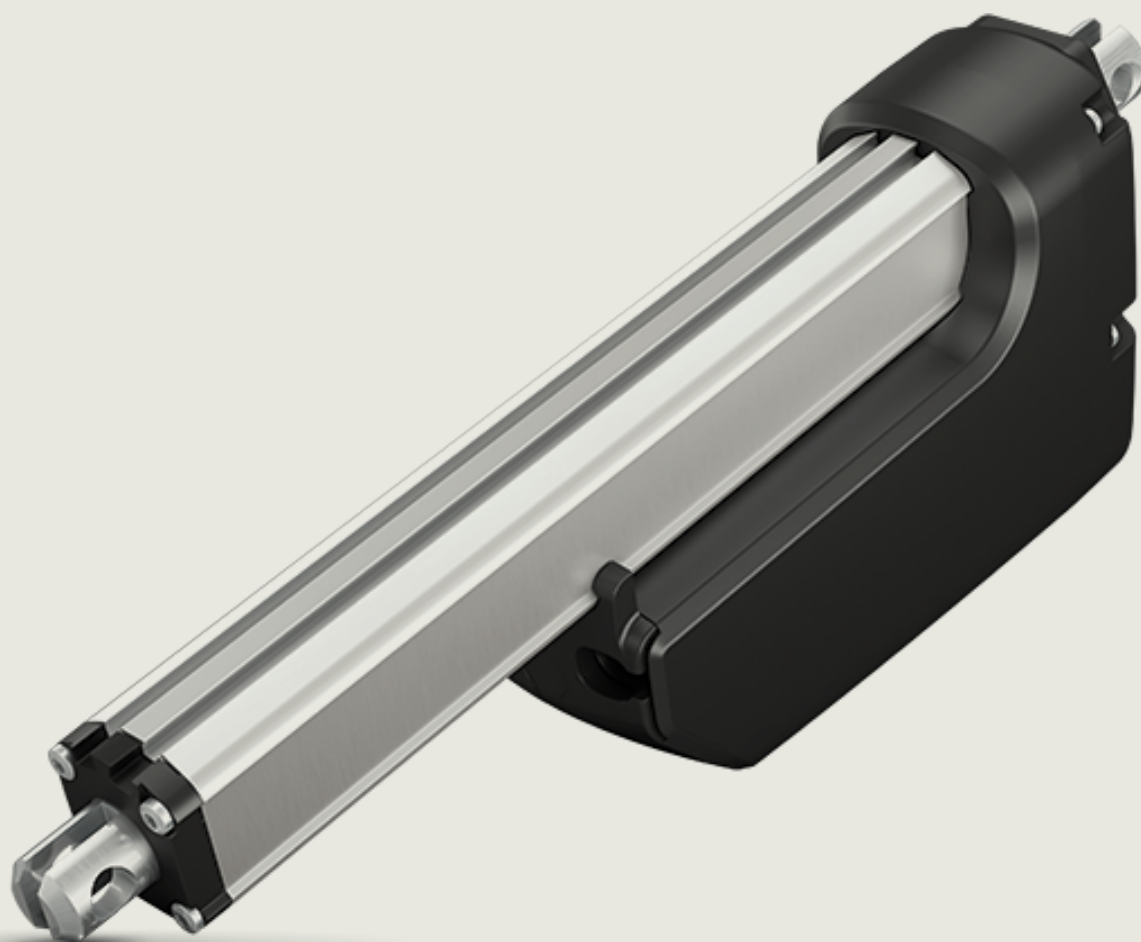
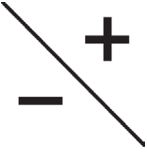
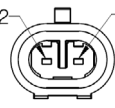

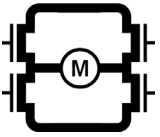
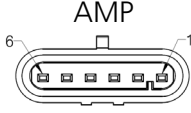
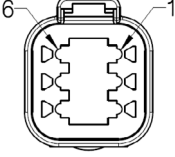
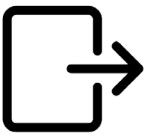





Actuator LA33 With I/O Basic **Connection Diagram**



Connection diagram

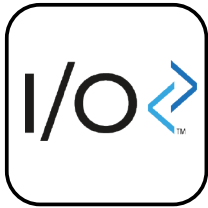
33XXXXXXXXXXXX3X2X=XXXXXXXXBXXXXX

				Power	AMP	Deutsch
	24/48 V DC +	BROWN	2			
	GND -	BLUE	1			
	Digital input	RED	1			
	Digital input	BLACK	2			
	Digital output	YELLOW	3			
	Digital output	GREEN	4			
	Analog output + or Digital input	ORANGE Not used	0			
	Analog output - or Digital input	LIGHT BLUE Not used	0			
	Parallel	VIOLET Not used	0			
	Parallel GND	WHITE Not used	0			
	Bluetooth® Antenna	GREY	0			

i Not used*: The I/O Basic actuator can be upgraded to I/O Full, if more functionality is needed - even after purchase. Connect the actuator to Actuator Connect™ via Bluetooth® or a USB adapter cable (must be purchased separately), and request an unlock key from your local LINAK office.

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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 is offering a range of 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>
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</p> <p>-Standard run</p>	<p>The signal becomes active at:</p> <p>> 67% of V_{IN} = ON</p>
Black	<p>Retracts the actuator</p> <p>-Standard run</p>	<p>The signal becomes inactive at:</p> <p>< 33% of V_{IN} = OFF</p> <p>Input current: 10 mA</p>
Yellow	<p>Digital position output</p> <p>- Endstop reached (inwards)</p>	<p>Digital outputs:</p> <p>The digital output is active high</p>
Green	<p>Digital position output</p> <p>- Endstop reached (outwards)</p>	<p>- Output voltage min. $V_{IN} - 2$ V</p> <p>- Source current max. 100 mA</p>
Orange	Not to be used	<p>Actuator can be upgraded to Full version</p> <p>- wire is then used as either an analogue output or digital input.</p>
Light Blue	Not to be used	<p>Actuator can be upgraded to Full version</p> <p>- wire is then used as either an analogue output or digital input.</p>
Purple	Not to be used	<p>Actuator can be upgraded to Full version</p> <p>- wire is then used as parallel communication</p>
White	Not to be used	<p>Actuator can be upgraded to Full version</p> <p>- wire is then used as parallel common GND</p>
Grey	Antenna for Bluetooth®	<p>The Grey wire is used to strengthen the Bluetooth signal, allowing a stable wireless connection and has no functionality during operation.</p>



Find more information about the IC - I/O actuators in the IC - I/O user manual.

The newest version is available online at [LINAK.COM/TECHLINE](https://www.linak.com/tecline)

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