

# Actuator LA36

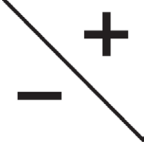
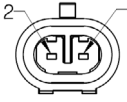
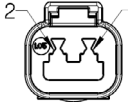
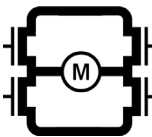

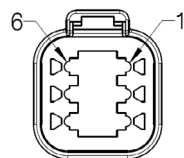
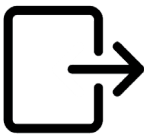
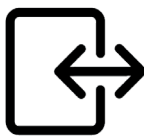
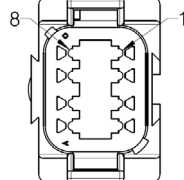
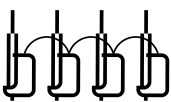

With I/O Customised or Full

## Connection diagram



## Connection diagram

36XXXXXXXXXC3XX=XXXXXXXXNXXXXXXXXX  
 36XXXXXXXXXF3XX=XXXXXXXXNXXXXXXXXX

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




\*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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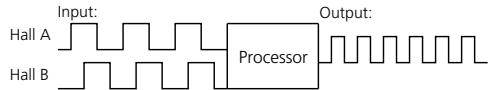
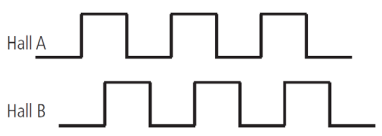
## I/O specifications

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 is offering a range of flexible digital and analogue in- and outputs. It can be deployed through all industries.</p>	
Brown	<p>24 VDC, current limit 13 A</p> <p>48 VDC, 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"> <li>-Standard run (Default for Full version)</li> <li>-Impulse run</li> <li>-Servo (+)</li> <li>-Proportional (+)</li> </ul>	<p>The signal becomes active at: &gt; 67% of <math>V_{IN}</math></p> <p>The signal becomes inactive at: &lt; 33% of <math>V_{IN}</math></p> <p>Input current: 10 mA</p>
Black	<p>Retracts the actuator features*:</p> <ul style="list-style-type: none"> <li>-Standard run (Default for Full version)</li> <li>-Impulse run</li> <li>-Servo (-)</li> <li>-Proportional (-)</li> </ul>	



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Input/Output	Specification	Comments
Yellow	Digital position output features*: <ul style="list-style-type: none"> <li>- Endstop reached (inwards) (Default for Full version)</li> <li>- Endstop zone reached (inwards)</li> <li>- Actuator running</li> <li>- Constantly low</li> <li>- Constantly high</li> <li>- Single hall XOR</li> <li>- Dual hall (A)</li> </ul>	Digital outputs: The digital outputs are either active high or active low, depending on the preferred signal type. <ul style="list-style-type: none"> <li>- Output voltage min. <math>V_{IN} - 2 V</math></li> <li>- Source current max. 100 mA</li> </ul> Single hall XOR: 
Green	Digital position output features*: <ul style="list-style-type: none"> <li>- Endstop reached (outwards) (Default for Full version)</li> <li>- Endstop zone reached (outwards)</li> <li>- Actuator running</li> <li>- Constantly low</li> <li>- Constantly high</li> <li>- Single hall XOR</li> <li>- Dual hall (B)</li> </ul>	Dual hall: 
Orange	Analogue output or Digital input feature*: <ul style="list-style-type: none"> <li>-Analogue feedback (+)</li> <li>-Predefined position 1</li> <li>-Run condition</li> </ul>	Customisable or not used (Default for Full version)
Light Blue	Analogue output or Digital input features*: <ul style="list-style-type: none"> <li>-Analogue feedback (-)</li> <li>-Predefined position 2</li> </ul>	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.

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