

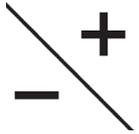
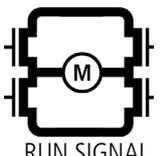
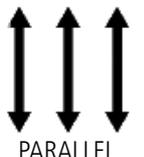


Actuator LA36/Long Life  
I/O Customised & Full  
*Connection diagram*

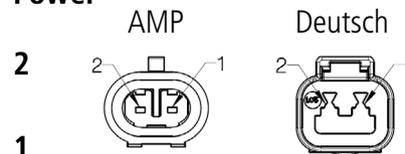
# Connection diagram

## I/O Customised or Full

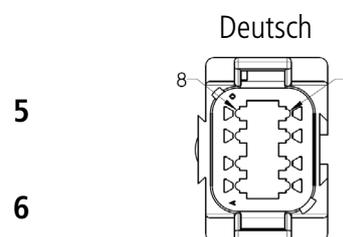
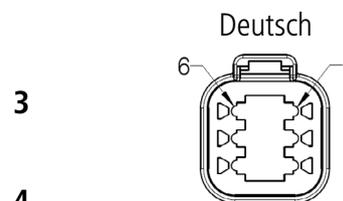
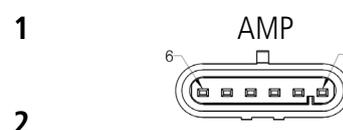
36XXXXXXXXXC3XXX=XXXXXXXXXXXXXXXXXX  
F3

 <p>POWER SUPPLY</p>	24/48 VDC +	<b>BROWN</b>
	GND -	<b>BLUE</b>
 <p>RUN SIGNAL</p>	Digital input	<b>RED</b> Manual run Outwards
	Digital input	<b>BLACK</b> Manual run Inwards
 <p>OUTPUTS</p>	Digital output	<b>YELLOW</b> End stop reached outwards
	Digital output	<b>GREEN</b> End stop reached inwards
 <p>INPUT/OUTPUT</p>	Analog output + or Digital input	<b>ORANGE</b> Not used or customisable*
	Analog output - or Digital input	<b>LIGHT BLUE</b> Not used or customisable*
 <p>PARALLEL</p>	Parallel	<b>PURPLE</b> Not used or customisable*
	Parallel GND	<b>WHITE</b> Not used or customisable*
 <p>BLUETOOTH®</p>	Bluetooth® Antenna	<b>GREY</b> Bluetooth® interface for PC tool

### Power



### Signal



7 (Alt 5)\*\*

8 (Alt 6)\*\*

0

Compliant with:



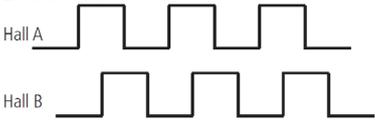
\* Customisable: The I/O Full actuator is configured like an I/O Basic from factory, but with full access to all features. Connect the actuator to Actuator Connect™ via Bluetooth® or a USB adapter cable (must be purchased separately), to enable and configure various features.

Please note: 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).

\*\* If input/output are not used and a 6-pin connector is chosen, the alternative pins are used.

# I/O Specifications

Input / Output	Specification	Comments
Description	<p>IC - I/O is a universal industrial interface developed by LINAK<sup>®</sup>. 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 analog in- and outputs. It can be deployed through all industries.</p>	
Brown	<p>24-48 VDC + (VCC) Connect Brown to positive 24V, current limit 13 A 48V, current limit 8 A</p>	<p>Note: Do not swap the power supply polarity on the brown and blue wires! The PCB is coupled to the housing through a capacitor.</p> <p>Current limit levels can be adjusted through BusLink.</p> <p>If the temperature drops below 0 °C, all current limits will automatically increase with a factor 2.</p>
Blue	<p>- (GND) Connect Blue to negative</p>	
Red	<p>Extends the actuator features*: -Standard run (Default for Full version) -impulse run -Servo (+) -Proportional (+)</p>	<p>The signal becomes active at: ≥ 67% of <math>V_{IN}</math> = ON The signal becomes inactive at: ≤ 33% of <math>V_{IN}</math> = OFF Input current: 10 mA</p>
Black	<p>Retracts the actuator features*: -Standard run (Default for Full version) -impulse run -Servo (-) -Proportional (-)</p>	

Yellow	Digital position output features*: <ul style="list-style-type: none"> <li>- End stop reached (outwards) (Default for Full version)</li> <li>- End stop zone reached (outwards)</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\text{ 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>- End stop reached (inwards) (Default for Full version)</li> <li>- End stop zone reached (inwards)</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	Analog output or Digital input feature*: <ul style="list-style-type: none"> <li>-Analog feedback (+)</li> <li>-Predefined position 1</li> <li>-Run condition</li> </ul>	Customisable or not used (Default for Full version)
Light Blue	Analog output or Digital input features*: <ul style="list-style-type: none"> <li>-Analog 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.



**\* 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.

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