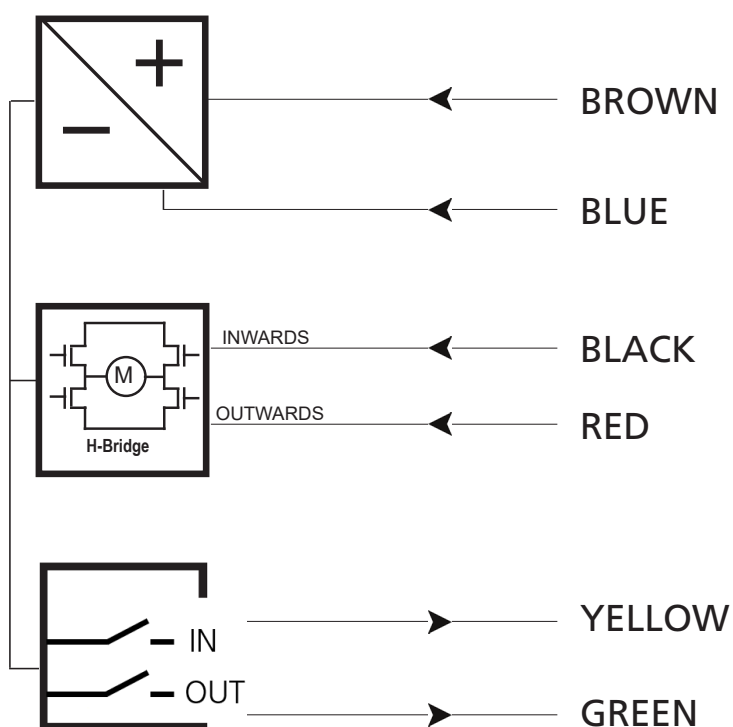




Actuator LA25  
IC Basic  
Connection diagram

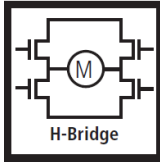
# Connection diagram

25XXXXXXXXXXXX3X1X=XXXXX18XXXXXX



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	<p>Easy to use interface with integrated power electronics (H-bridge).</p> <p>The version with "IC option" cannot be operated with PWM (power supply).</p> <p>See connection diagram, figure above</p>	 <p>H-Bridge</p>
Brown	<p>12-24VDC + (VCC)</p> <p>Connect Brown to positive</p> <p>12V ± 20% - max. 5A depending on load</p> <p>24V ± 10% - max. 2.5A depending on load</p> <p>12V, current limit 8A</p> <p>24V, current limit 5A</p>	<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 9A for 12V and 6A for 24V</p>
Blue	<p>12-24VDC - (GND)</p> <p>Connect Blue to negative</p> <p>12V ± 20% - max. 5A depending on load</p> <p>24V ± 10% - max. 2.5A depending on load</p> <p>12V, current limit 8A</p> <p>24V, current limit 5A</p>	
Red	Extends the actuator	<p>On/off voltages:</p> <p>&gt; 67% of <math>V_{IN}</math> = ON</p> <p>&lt; 33% of <math>V_{IN}</math> = OFF</p> <p>Input current: 10mA</p>
Black	Retracts the actuator	
Green	Endstop signal out	<p>Output voltage min. <math>V_{IN} - 2V</math></p> <p>Source current max. 100mA</p>
Yellow	Endstop signal in	Endstop signals are NOT potential free.
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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