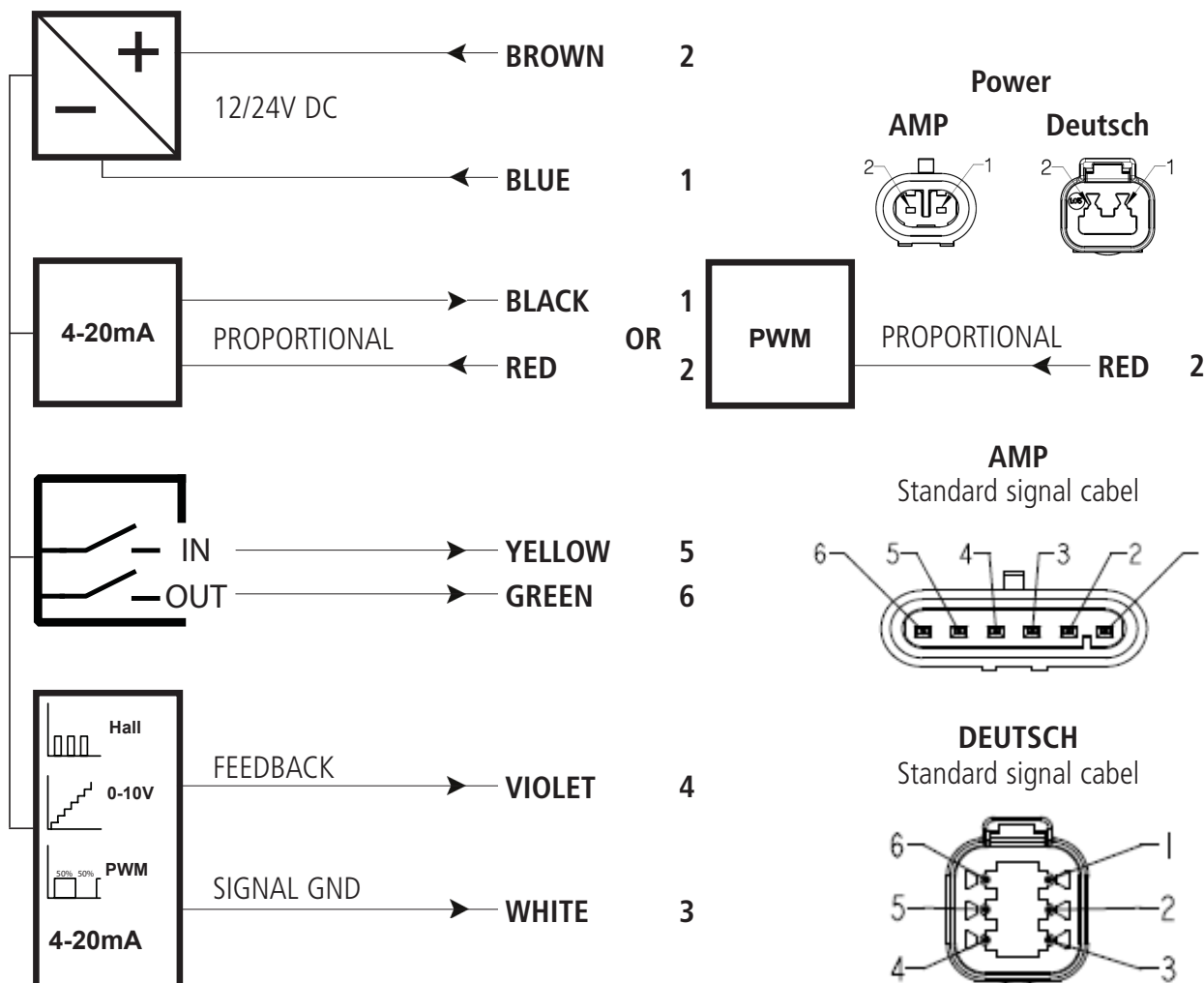




Actuator LA33
Proportional control
Connection diagram

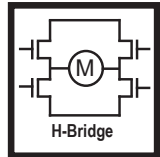
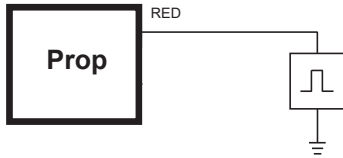
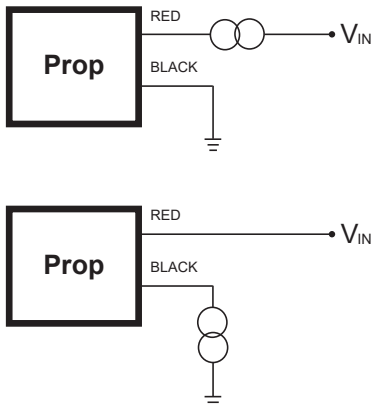
Connection diagram

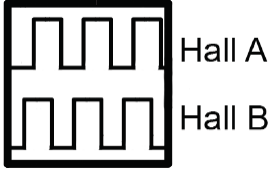
33XXXXXXXXXX3XXX=XXXXXX34/5XXXX



Please be aware that if the power supply is not properly connected, you might damage the actuator!

I/O Specifications

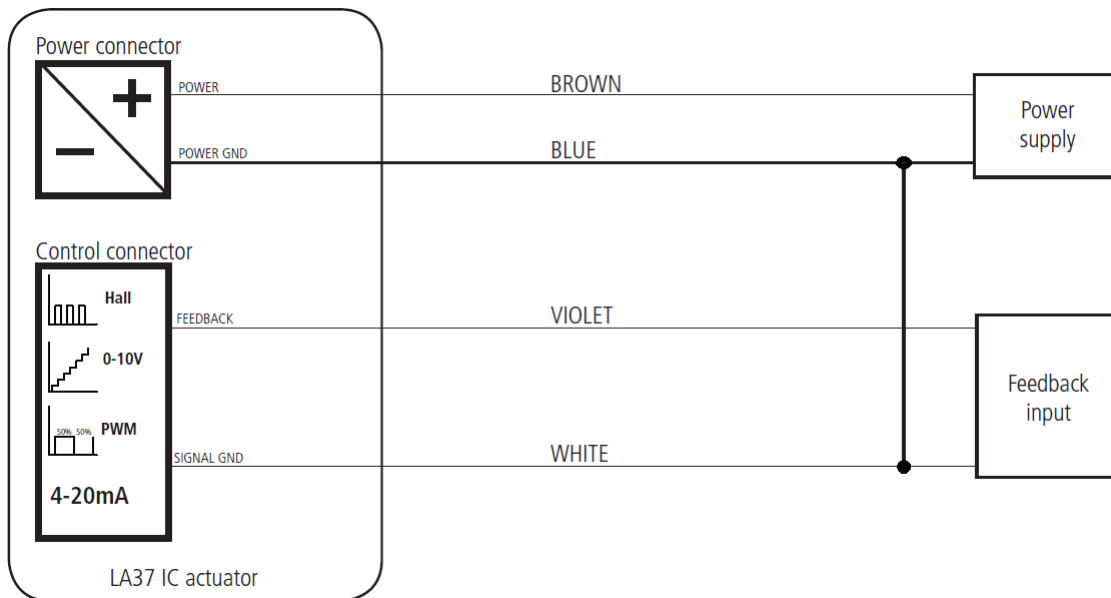
Input/Output	Specification	Comments
Description	Easy to use interface with integrated power electronics (H-bridge). The actuator is speed controlled by means of a PWM or 4-20 mA signal. Proportional provides a wide range of possibilities for customisation.	
Brown	12-24 VDC + (VCC) Connect Brown to positive 12 V \pm 20 % 24 V \pm 10 % 12 V, max. 13 A - current cut off @ 15 A 24 V, max. 9 A - current cut off @10 A	Note: Do not change the power supply polarity on the brown and blue wires! Power supply GND (-) is electrically connected to the housing If the temperature drops below 0 °C, all current limits will automatically increase to:
Blue	12-24 VDC - (GND) Connect Blue to negative	20 A for 12 V 15 A for 24 V
Red Black	<p>PWM:</p> 	<p>Signal levels: > 10 V = High < 2 V = Low with reference to power GND (blue) Equivalent input resistance \approx 22k Frequency: Min. 100 Hz Max. 1000 Hz Overcurrent protected, reverse voltage protected</p>
	<p>4-20 mA:</p> 	<p>Sinking current with reference to power GND (blue) Common mode voltage: GND to V supply Equivalent input resistance \approx 135 ohm Overcurrent protected, reverse voltage protected</p>

Input/Output	Specification	Comments
Yellow	Hall A Movement per each Hall pulse: 20 mm Pitch -> 0.3125 mm/count Hall output (PNP)	 <p>Hall A Hall B</p>
Green	Hall B Movement per each Hall pulse 20 mm Pitch -> 0.3125 mm/count	
Violet	Analogue feedback (0-10 V): Configure any high/low combination between 0-10 V	Ripple max. 200 mV Transaction delay 20 ms Linear feedback 0.5% Max. current output. 1 mA
	Single Hall output (PNP): Movement per Single Hall pulse: LC3200: Lifting Colum = 1.1 mm per count Frequency: Frequency is up to 125 Hz on Single Hall output depending on load and spindle. Overvoltage on the motor can result in shorter pulses	Output voltage min. VIN - 2 V Max. current output: 12 mA Max. 680 nF
	Digital output feedback PWM: Configure any high/low combination between 0-100%	Output voltage min. VIN - 2 V Frequency: 75 Hz ± 10 Hz as stan- dard, but this can be customised. Duty cycle: Any low/high combination between 0 and 100 percent. Open collector source current max. 12 mA
	Analogue feedback (4-20 mA): Configure any high/low combination between 4-20 mA	Tolerances ± 0.2 mA Transaction delay 20 ms Linear feedback 0.5% Output: Source Serial resistance: 24 V max. 900 ohm
	All absolute value feedbacks (0-10 V, PWM and 4-20 mA)	Standby power consumption: 24 V, 50 mA It is recommendable to have the col- umn to activate its limit switches on a regular basis, to ensure more precise positioning
White	Signal GND:	For correct wiring of power GND and Signal GND



- 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.

Correct wiring of Power GND and Signal GND for IC Advanced:



Please note: This section only applies for 0-10 V, Hall and PWM feedback options.

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