

Actuator LA25

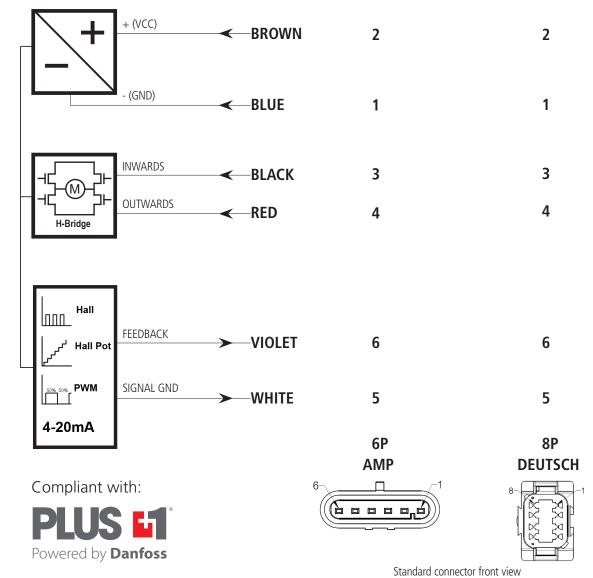
IC Advanced with feedback

Connection diagram





Connection diagram





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



Configuration of IC Advanced is possible with the BusLink software for PC The newest version is available online at LINAK.COM/TECHLINE

<u>Please note:</u> The BusLink configuration cable must be purchased seperately Item number for BusLink cable kit: 0147999 (adapter + USB2Lin)



I/O Specifications

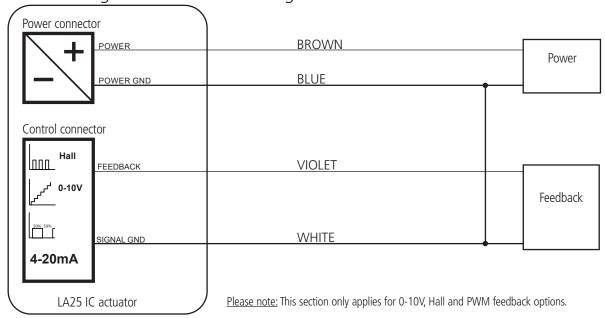
Input/Output	Specification	Comments
Description	Easy to use interface with integrated power electronics (H-bridge). The actuator can also be equipped with electronic circuit that gives an absolute or relative feedback signal. Actuators with "IC" cannot be operated with PWM (power supply).	H-Bridge
Brown	12-24 VDC + (VCC) Connect Brown to positive 12 V ± 20% - 5 A at max load 24 V ± 10% - 2.5 A at max load 12 V, current limit 8 A 24 V, current limit 5 A	Note: Do not change the power supply polarity on the brown and blue wires! Power supply GND (-) is electrically connected to the
Blue	12-24 VDC - (GND) Connect Blue to negative	housing Current limit levels can be adjusted through BusLink If the temperature drops below 0°C, all current limits will automatically increase to 9 A for 12 V, and 6 A for 24 V
Red	Extends the actuator	The signal becomes active at: $> 67\%$ of $V_{IN} = ON$
Black	Retracts the actuator	The signal becomes inactive at: < 33% of V _{IN} = OFF Input current: 10 mA
Violet	Analogue feedback (0-10 V): Configure any high/low combination between 0-10 V Single Hall output (PNP) Movement per Single Hall pulse: LA25030 Actuator = 0.25 mm per pulse LA25060 Actuator = 0.5 mm per pulse LA25090 Actuator = 0.75 mm per pulse LA25120 Actuator = 1.0 mm per pulse LA25200 Actuator = 1.7 mm per pulse	Ripple max. 200 mV Transaction delay 20 ms Linear feedback 0.5% Max. current output. 1 mA Output voltage min. V _{IN} - 2 V Max. current output: 12 mA Max. 680 nF
	Depending on load the frequency is 10-20 Hz Pulse ON time is minimum 8 ms.OFF time between two ON pulses is minimum 8 ms. Overvoltage on the motor can result in shorter pulses. Digital output feedback PWM: Configure any high/low combination between 0-100%	Output voltage min. V _{IN} - 2 V Frequency: 75 Hz ± 10 Hz as standard, but this can be customised. Duty cycle: Any low/high combination between 0 and 100 percent. Open collector source current max. 12 mA

Input/Output	Specification	Comments
Violet	Analogue feedback (4-20 mA):	Tolerances +/- 0.2 mA
(continued)	Configure any high/low combination between 4-20 mA	Transaction delay 20 ms
		Linear feedback 0.5%
		Output: Source
		Serial resistance:
		12 V max. 300 ohm
		24 V max. 900 ohm
	All absolute value feedbacks (0-10V , PWM	Standby power consumption:
	and 4-20 mA)	12 V, 60 mA
		24 V, 45 mA
White	Signal GND	For correct wiring of Power GND and Signal GND - please
		see figure below
Green	Not to be connected	
Yellow	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.
- For actuators with analogue feedback it is recommended to fully extract and retract the actuator on a regular basis (thereby activating the limit switches) in order to ensure precise positioning.

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



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