

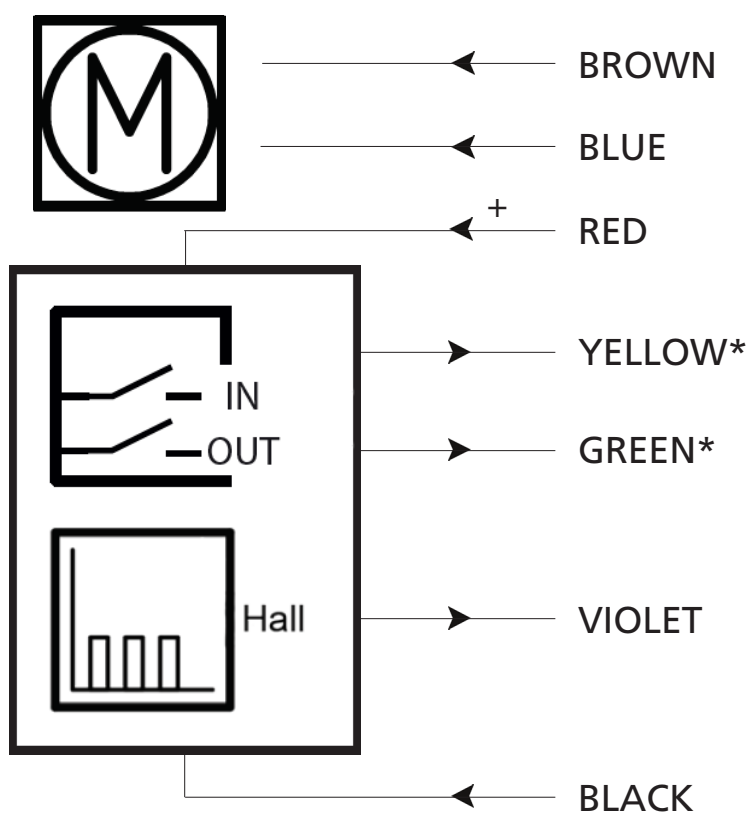
Actuator LA25

Endstop signals and relative positioning - Single hall

Connection diagram

Connection diagram

25XXXXXXXXX0K0X0X=XXXXX10XXXXXX


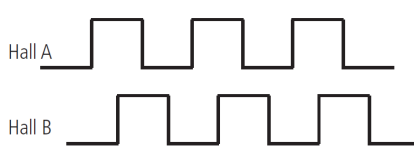




*YELLOW/GREEN: Endstop signals out are NOT potential free (see specifications on next page)



Tip: If you wish to use the endstop signals, you will have to keep power on the brown, blue, red and black wires, otherwise the signal will be lost.

I/O Specifications

Input/Output	Specification	Comments
Description	The actuator can be equipped with Single hall that gives a relative positioning feedback signal when the actuator moves. See connection diagram, figure above	
Brown	12-24VDC (+/-) 12V ± 20% 24V ± 10%	To extend actuator: Connect Brown to positive To retract actuator: Connect Brown to negative
Blue	Under normal conditions: 12V, max. 5A depending on load 24V, max. 2.5A depending on load	To extend actuator: Connect Blue to negative To retract actuator: Connect Blue to positive
Red	Signal power supply (+) 12-24VDC	Current consumption: Max. 40mA, also when the actuator is not running
Black	Signal power supply GND (-)	
Green	Endstop signal out	Output voltage min. $V_{IN} - 2V$ Source current max. 100mA NOT potential free
Yellow	Endstop signal in	
Violet	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 Depending on load the frequency is 10-20 Hz Pulse ON time is minimum 8ms. OFF time between two ON pulses is minimum 8ms. Overvoltage on the motor can result in shorter pulses.	Output voltage min. $V_{IN} - 2V$ Max. current output: 12mA Max. 680nF N.B. For more precise measurements, please contact LINAK A/S. Low frequency with a high load. Higher frequency with no load.
	<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> <p>Input:</p>  <p>Hall A</p> <p>Hall B</p> </div> <div style="text-align: center;"> <p>Single hall output:</p>  </div> </div> <div style="text-align: center; margin-top: 10px;">  <p>Micro - Processor</p> </div>	
White	Not to be connected	

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