

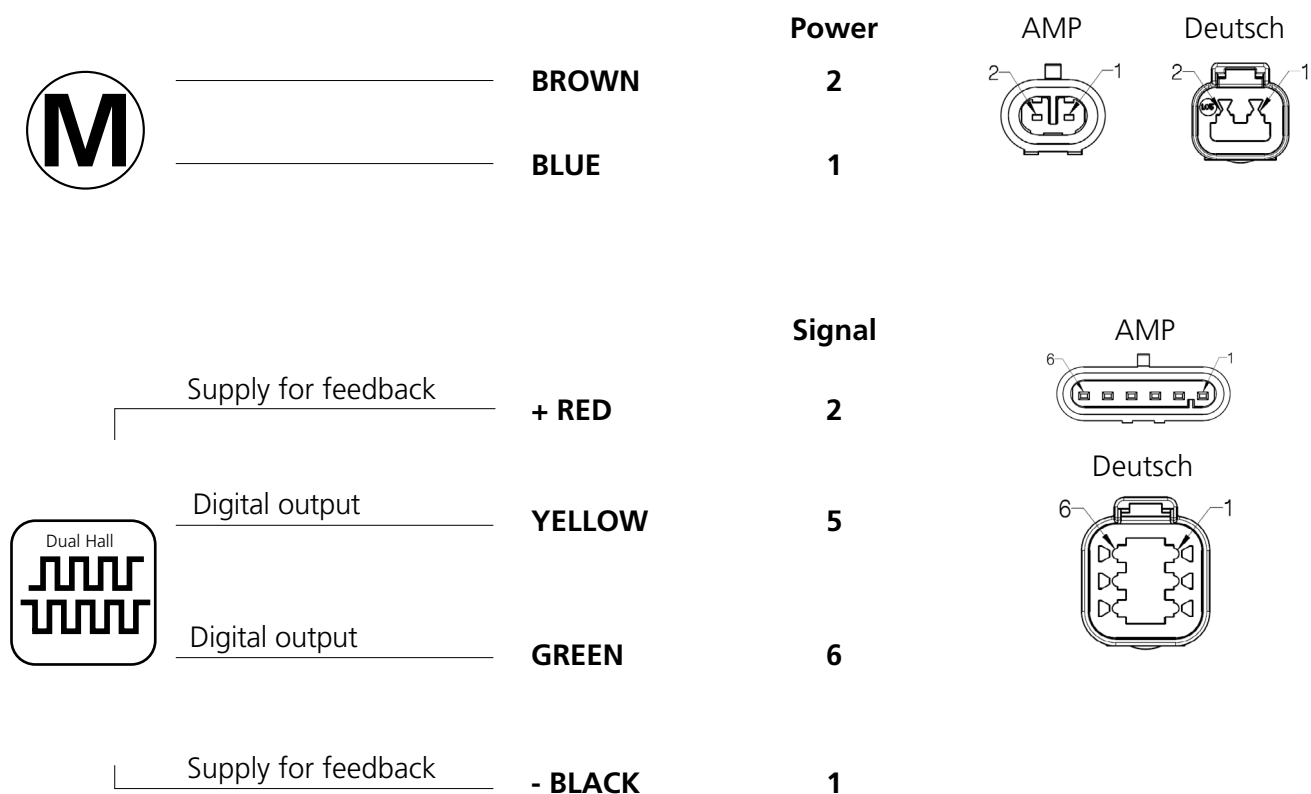
Actuator LA36
With relative positioning -
Dual Hall


Connection diagram



Connection diagram

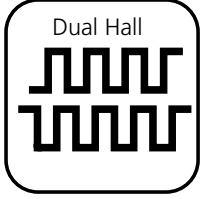
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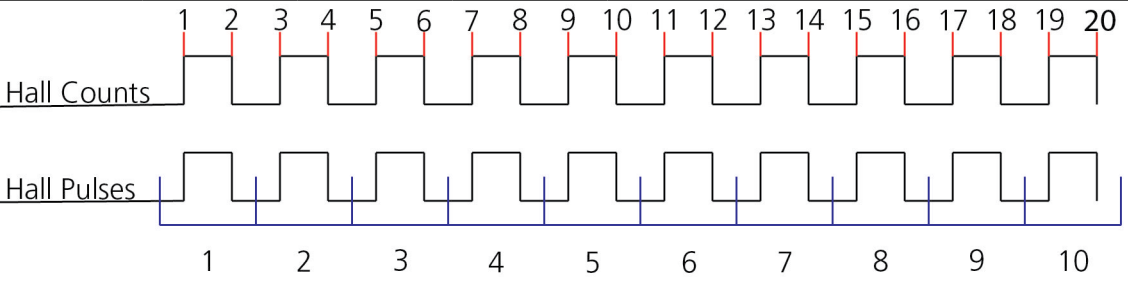


 A Hall pulse consists of two Hall counts.
A Hall count occurs every time the signal changes direction, either upwards or downwards.

If you wish to use the endstop reached, 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 Dual Hall that gives a relative positioning feedback signal when the actuator moves.	 <p>The diagram shows a square wave signal labeled 'Dual Hall' with two distinct waveforms, one above the other, representing the feedback signal.</p>
Brown	12 V DC \pm 20 %, max. 26 A depending on load 24 V DC \pm 10 %, max. 13 A depending on load	To extend actuator: Connect Brown to positive To retract actuator: Connect Brown to negative
Blue	36 V DC \pm 10 %, max. 10 A depending on load 48 V DC \pm 10 %, max. 8 A depending on load	To extend actuator: Connect Blue to negative To retract actuator: Connect Blue to positive
Red	Signal power supply (+) 12 - 36 V DC	Current consumption:
Black	Signal power supply GND (-)	Max. 40 mA during run and pause There will occur a higher inrush current

Input/Output	Specification			Comments	
Green	Hall B	Hall output (PNP) Movement per each Hall count			The Hall sensor signals are generated by the turning of the actuator gearing. These signals can be fed into a PLC (Programmable Logic Controller). In the PLC the quadrature signals can be used to register the direction and position of the piston rod. Output voltage min. $V_{IN} - 2 V$ Current output 12 mA Higher voltage on the motor can result in shorter pulses.
		Gear	Pitch	mm/count	
		H	8 mm	0,221	
		H	12 mm	0,331	
Yellow	Hall A	H	16 mm	0,442	
		G	16 mm	0,508	
		F	16 mm	1,155	
		F	20 mm	1,445	
Yellow	 <p>A Hall pulse consists of two Hall counts. A Hall count occurs every time the signal changes direction, either upwards or downwards.</p>				
	<p>Violet</p> <p>Not to be connected</p>				
White	<p>Not to be connected</p>				

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