

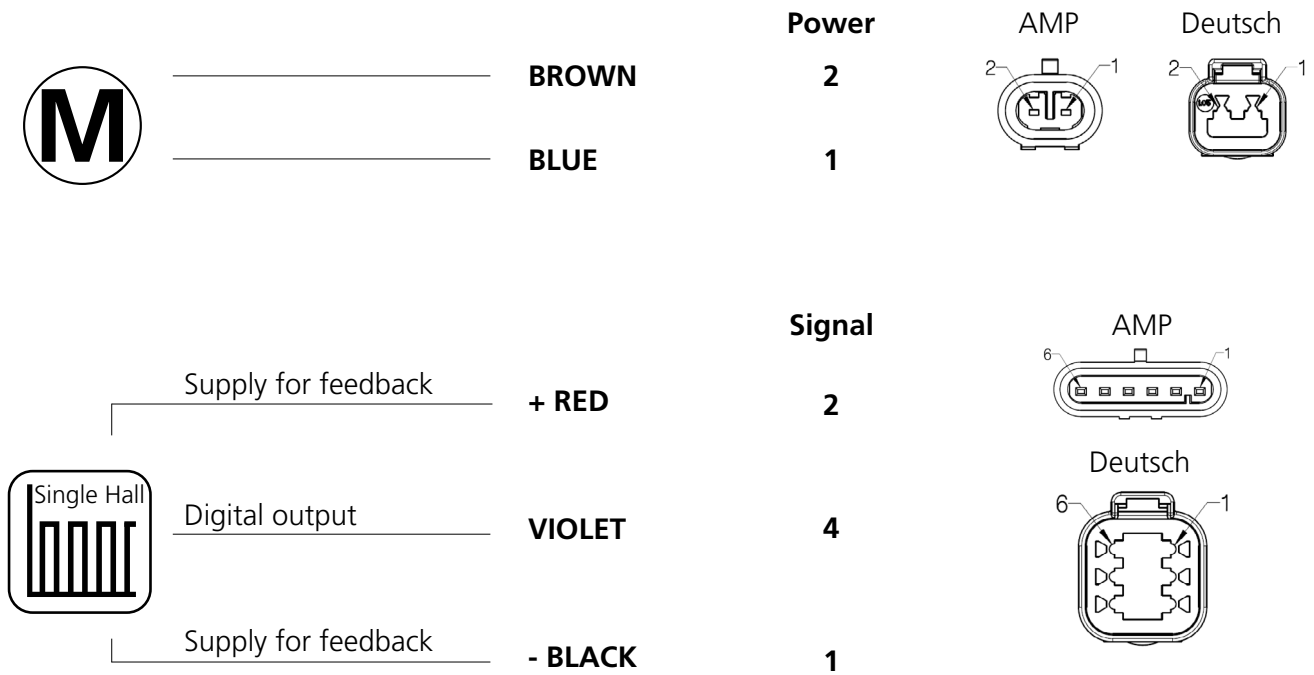
Actuator LA36  
With relative positioning -  
Single Hall


## Connection diagram



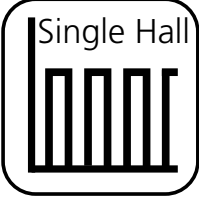
## Connection diagram

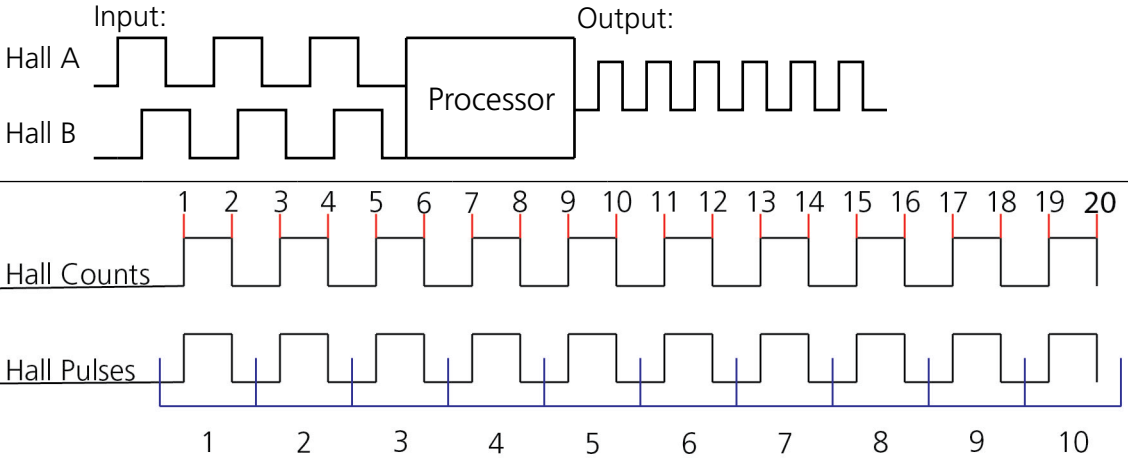
36XXXXXXXXK00XX-XXXXXXXXXXXXXXXXXXXX



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

## 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.	
Brown	12 V DC $\pm$ 20 %, max. 26 A depending on load 24 V DC $\pm$ 10 %, max. 13 A depending on load 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 Brown to positive To retract actuator: Connect Brown to negative
Blue		To extend actuator: Connect Blue to negative To retract actuator: Connect Blue to positive
Red	Signal power supply (+) 12 - 36 V DC	Current consumption: Max. 40 mA during run and pause There will be accrued a higher inrush current
Black	Signal power supply GND (-)	
Green	Not to be connected	
Yellow	Not to be connected	

Input/Output	Specification			Comments	
Violet	Hall A	Single Hall output (PNP) Movement per single 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.
		Gear	Pitch	mm/count	
		H	8 mm	0,110	
		H	12 mm	0,166	
	Hall B	H	16 mm	0,221	Output voltage min. $V_{IN} - 2 V$ Current output 12 mA Max. 680 nF Higher voltage on the motor can result in shorter pulses.
		G	16 mm	0,254	
		F	16 mm	0,577	
		F	20 mm	0,721	
					
	White	Not to be connected			

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