

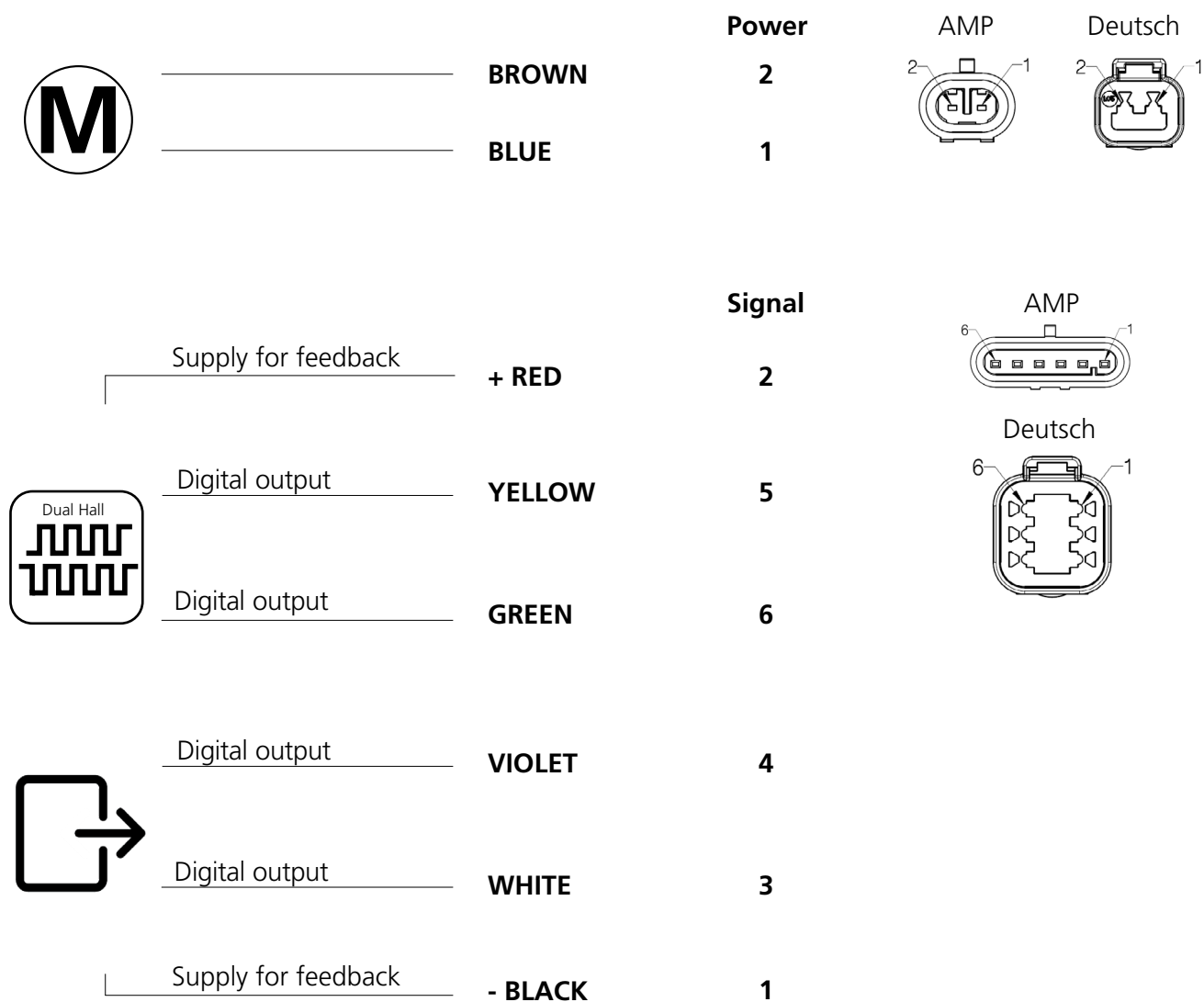
Actuator LA36  
With endstop reached and relative  
positioning - Dual Hall


## Connection diagram



## Connection diagram

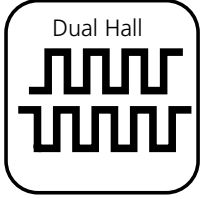
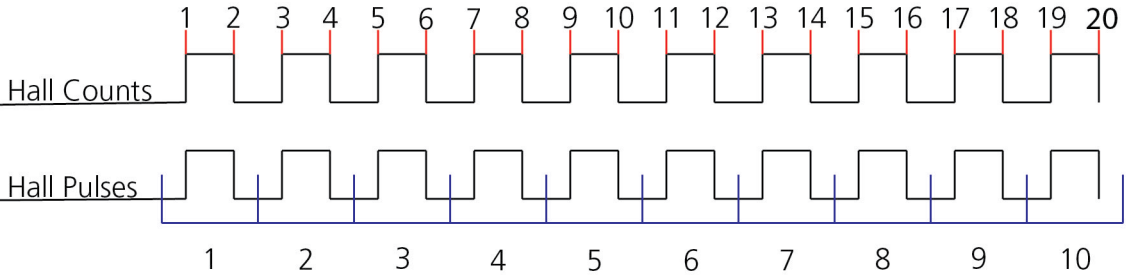
36XXXXXXXXH00XX-XXXXXXXXXXXXXXXXXX



 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.			
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:
Black	Signal power supply GND (-)			Max. 40 mA during run and pause There will occur a higher inrush current
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	
	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>

Input/Output	Specification		Comments
Violet	Endstop reached in	Output voltage min. VIN - 2 V Source current max. 30 mA NOT potential free	
White	Endstop reached out		

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