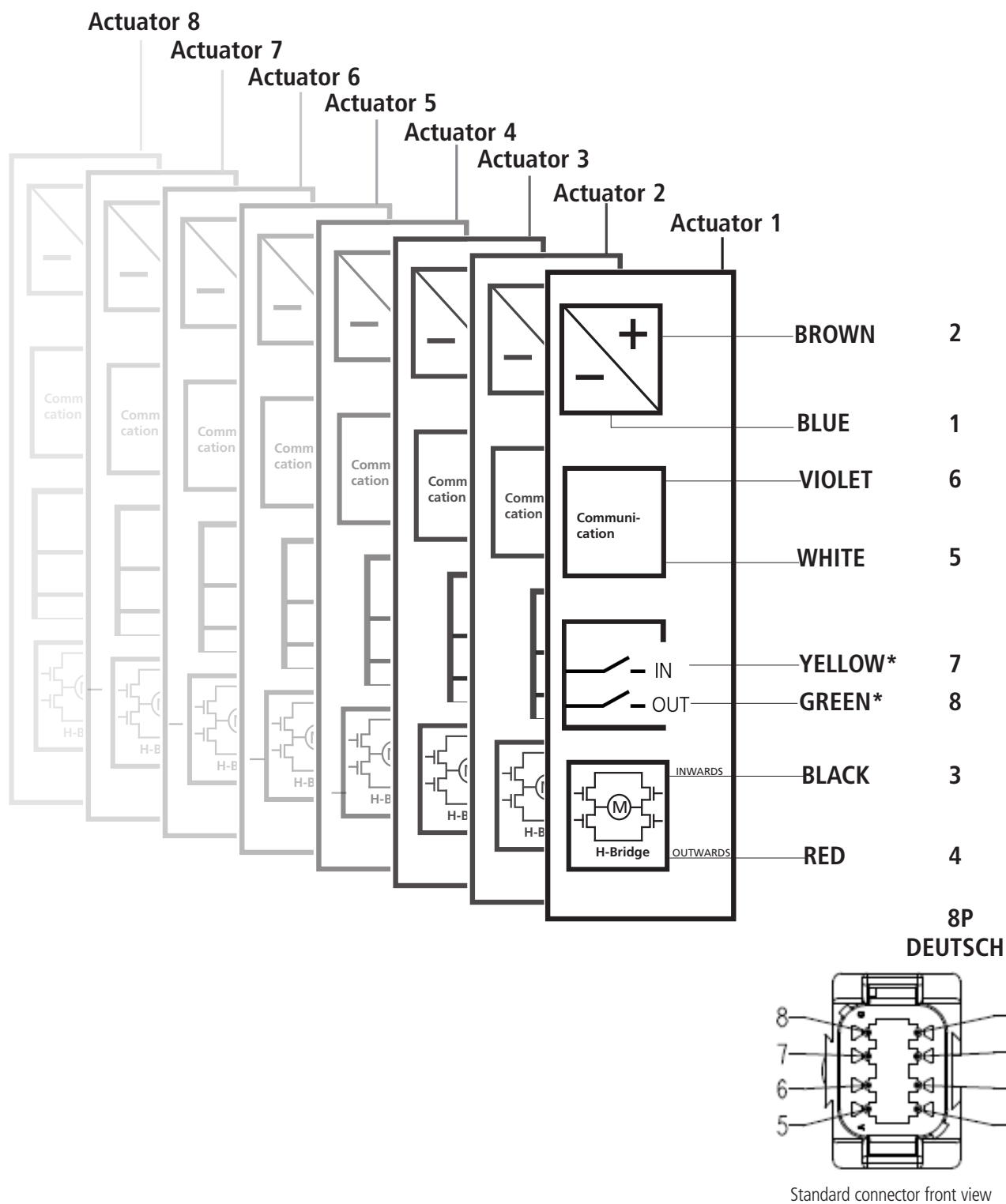


Actuator LA25
IC Parallel
Connection diagram

Connection diagram

25XXXXXXXXXX3X1X=XXXXX1ZXXXXXX

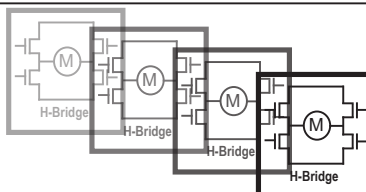


*YELLOW/GREEN: Endstop signals out are NOT potential free



- Please be aware that if the power supply is not properly connected, you might damage the actuator!
- The green and yellow wires from parallel connected actuators must NOT be interconnected

I/O Specifications

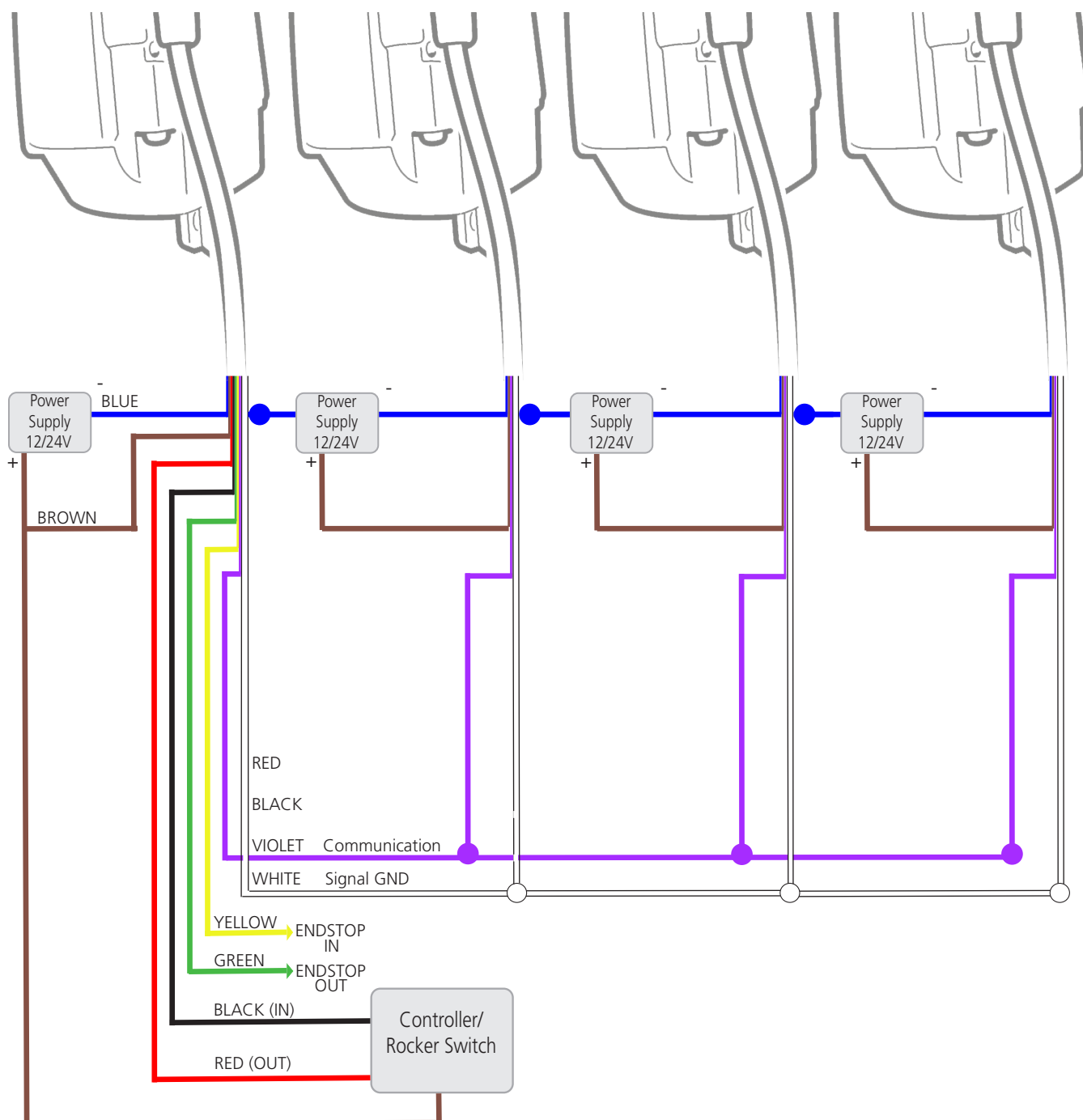
Input/Output	Specification	Comments
Description	Parallel drive of up to 8 actuators. A master actuator with an integrated H-bridge controller controls up to 7 followers. Actuators with "IC" cannot be operated with PWM (power supply).	
Brown	12-24VDC + (VCC) Connect Brown to positive 12 V ± 20% - 5 A at max load 24 V ± 10% - 2.5 A at max load 12 V, current limit 8A 24 V, current limit 5 A	Note: Do not change the power supply polarity on the brown and blue wires! The parallel actuators can run on one OR separate power supplies Power supply GND (-) is electrically connected to the housing
Blue	12-24 VDC - (GND) Connect Blue to negative	Current limit levels can be adjusted through BusLink (only one actuator at a time for parallel) 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 It does not matter where the in/out signals are applied. You can either choose to connect the signal cable to one actuator OR you can choose to connect the signal cable to each actuator on the line. Either way this will ensure parallel drive
Green	Endstop signal out	Output voltage min. $V_{IN} - 2 V$ Source current max. 100 mA
Yellow	Endstop signal in	Endstop signals are NOT potential free. Endstop signals can be configured with BusLink software according to any position needed.
Violet	Parallel communication: Violet cords must be connected together	Standby power consumption: 12 V, 60 mA 24 V, 45 mA No feedback available during parallel drive
White	Signal GND: White cords must be connected together	For correct wiring of power GND and Signal GND see next page



- 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.

I/O Specifications

The parallel drive function will support a number of actuators working jointly:



It is both possible to run parallel with a single power supply, or to run each actuator with separate power supplies:

Only standard power and signal cables are available for parallel.

If separate power supplies are used, they must have the same potential, and the power supply GND (blue wires) must be connected together.

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