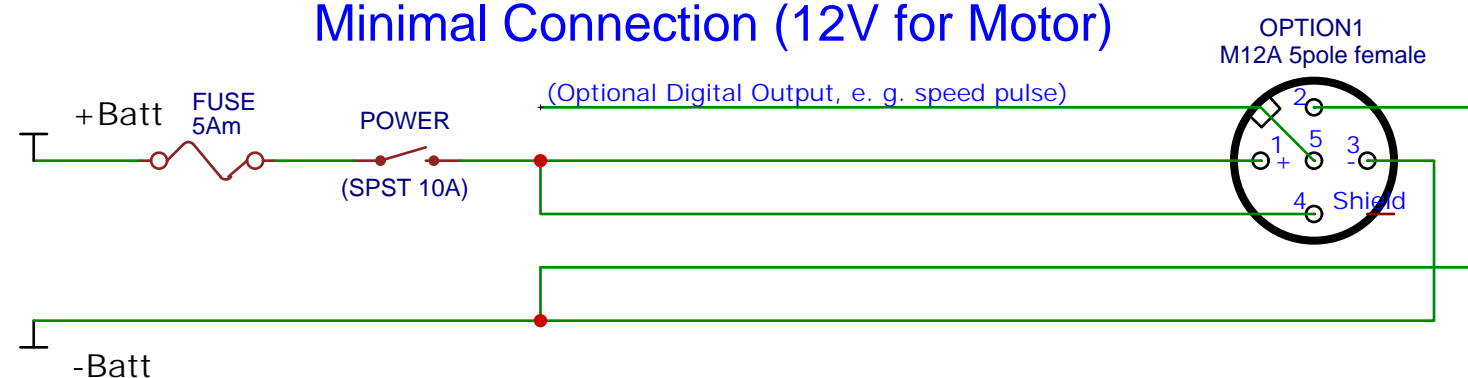
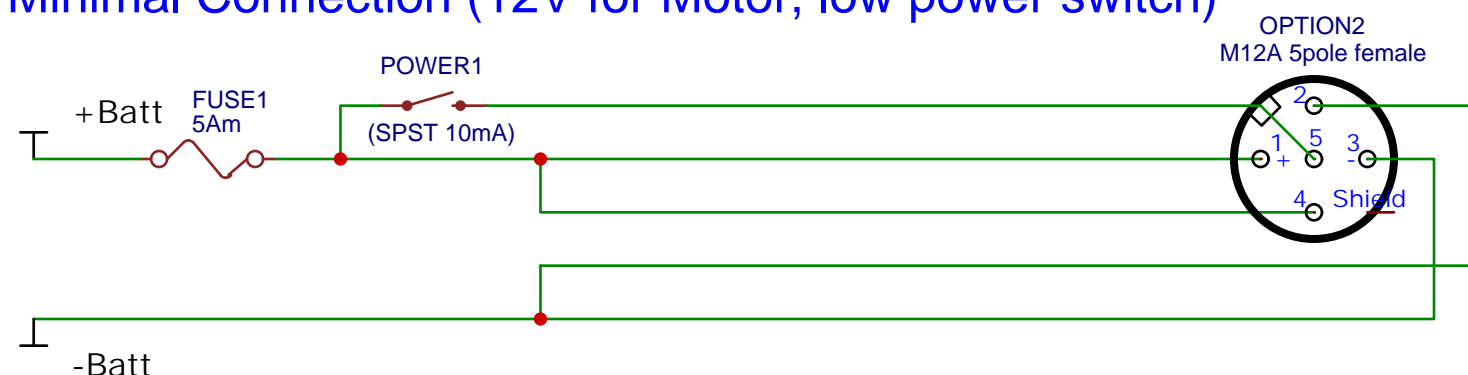


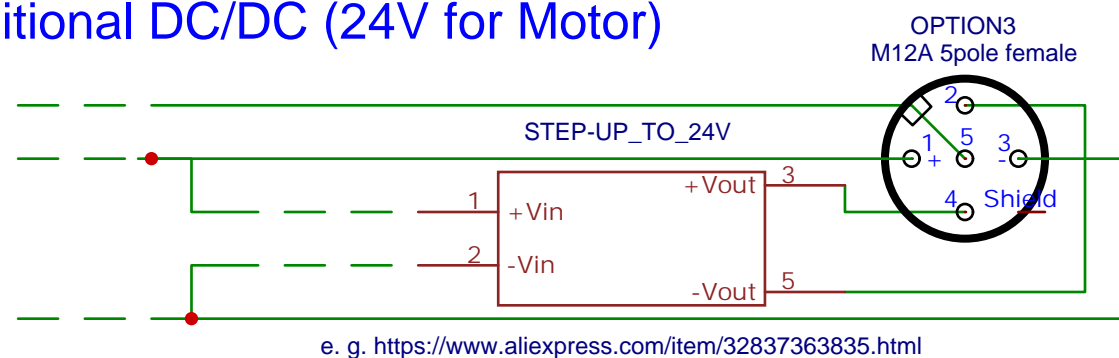
## Minimal Connection (12V for Motor)



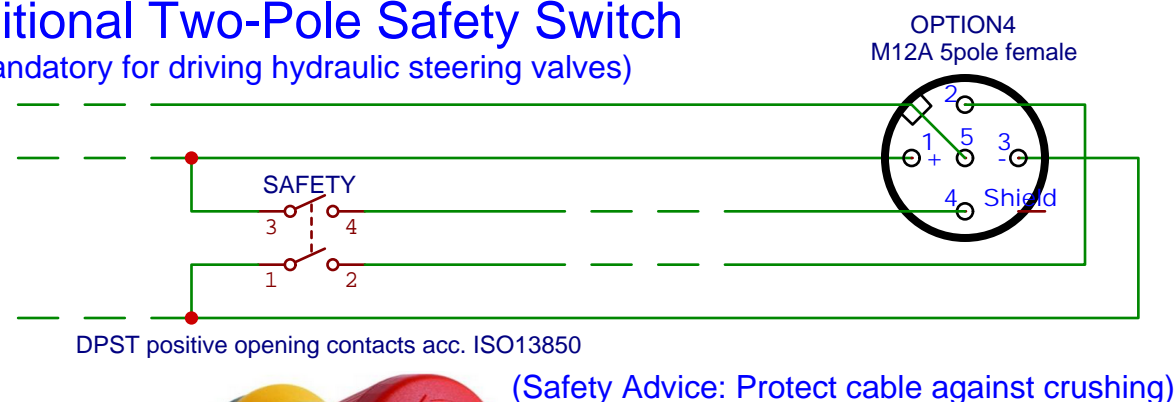
## Minimal Connection (12V for Motor, low power switch)



## Additional DC/DC (24V for Motor)



## Additional Two-Pole Safety Switch (Mandatory for driving hydraulic steering valves)



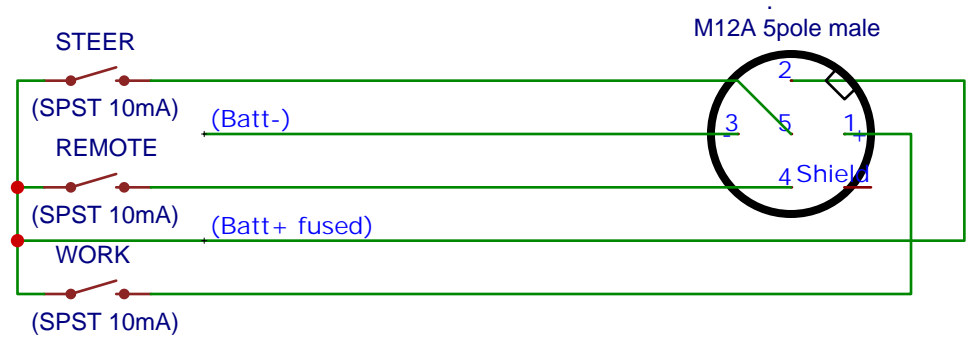
Cable M12-A female 4/5pole, e. g. [weidmueller.com](http://weidmueller.com)

SAIL-M12BG-5-1.5U (9457910150)

5 pole 1.5m unshielded = 0150cm

TITLE: Connecting Power Socket		REV: 1.0
EasyEDA	Company: agopengps.discourse.group	Sheet: 1/1
	Date: 2021-01-09	Drawn By: GoRoNb

Connection for Control Signals



Annotations:  
- Steer signal will be automatically asserted when motor driver is powered if J7 is unfitted  
- Remote and Work signals may be analog 0..15V if using the ESP32 option

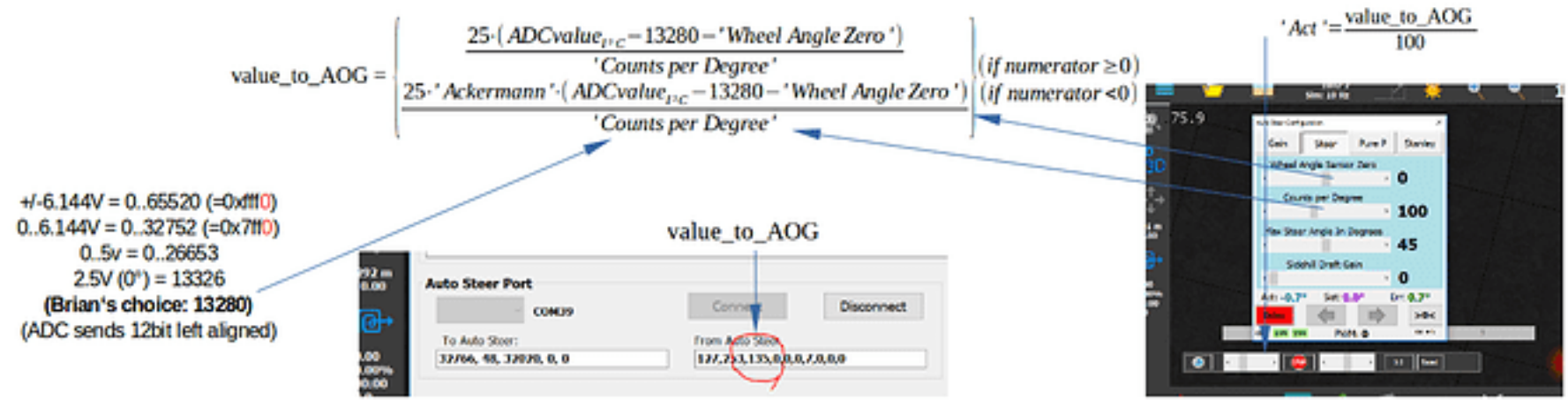
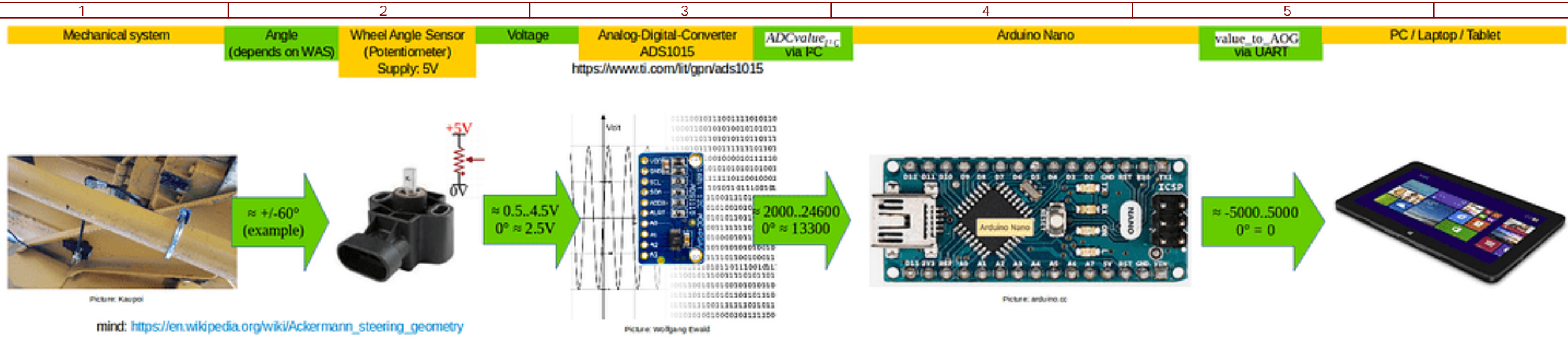


Cable M12-A male 4/5pole, e. g. weidmueller.com

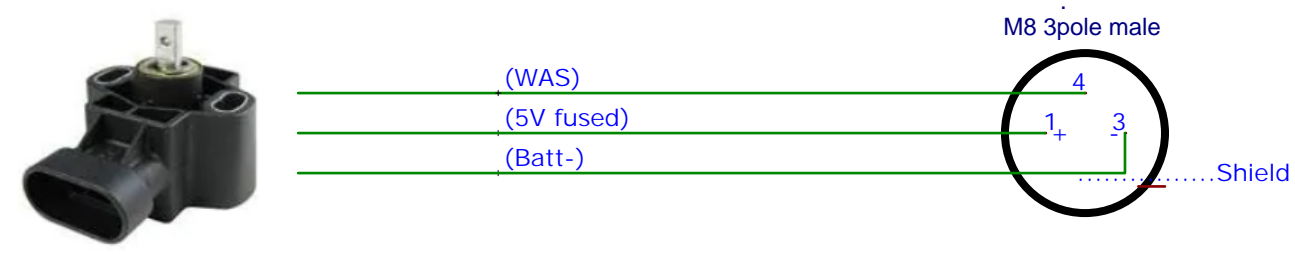
SAIL-M12G-5-1.5U (9457610150)

5 pole 1.5m unshielded = 0150cm

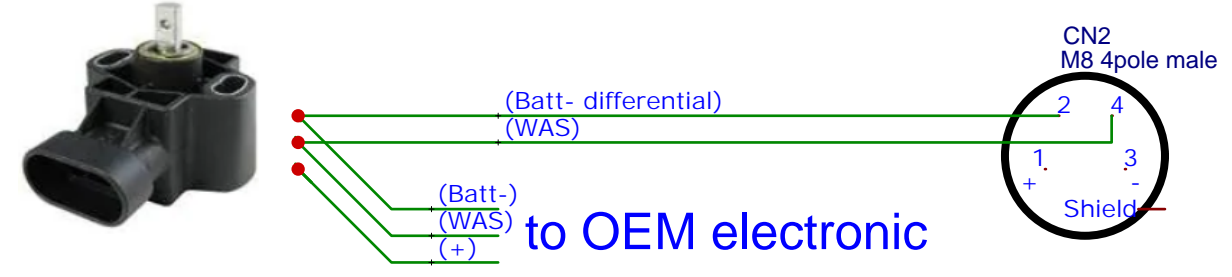
TITLE: Connecting Power Socket		REV: 1.0
EasyEDA	Company: agopengps.discourse.group	Sheet: 1/1
	Date: 2021-01-09 Drawn By: GoRoNb	



## Connection to (new) WAS



## Connection to OEM WAS



to OEM electronic



Cable M8 male 3/4pole, e. g. weidmueller.com

SAIL-M8G-3-3.0U (1824590300)

SAIL-M8G-4-3.0U (1906270300)

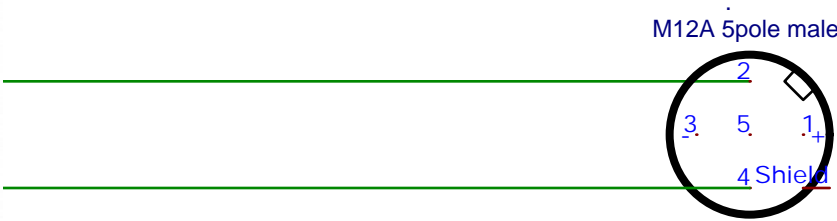
4 pole 3m unshielded = 0300cm

TITLE: Connecting the Wheel Angle Sensor (WAS)		REV: 1.0
EasyEDA	Company: agopengps.discourse.group	Sheet: 1/1
	Date: 2021-01-09	Drawn By: GoRoNb

A

A

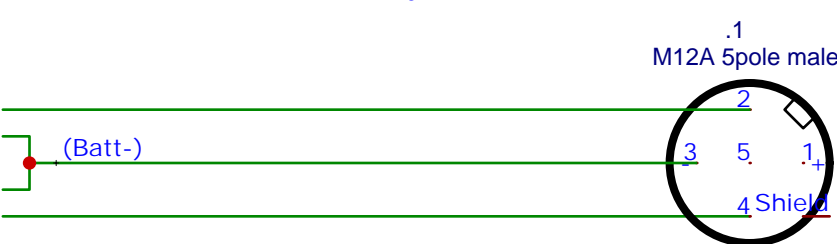
# Connection to Steering Motor



B

B

# Connection to Hydraulic Valves



Cable M12-A male 4/5pole, e. g. weidmueller.com

SAIL-M12G-5-1.5U (9457610150)

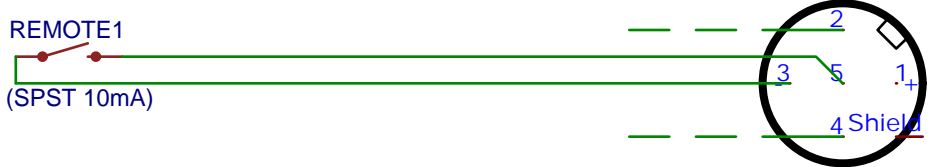
5 pole 1.5m unshielded = 0150cm

C

C

# Additional Steer Input Switch

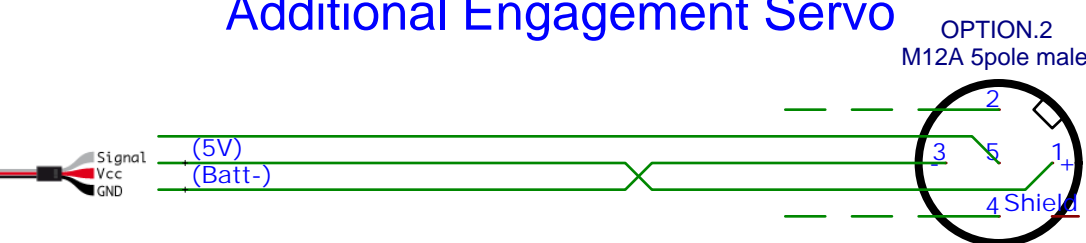
(starts autosteering when motor is engaged)



D

D

# Additional Engagement Servo



TITLE: Connecting Motor or Valves		REV: 1.0
EasyEDA	Company: agopengps.discourse.group	Sheet: 1/1
	Date: 2021-01-09	Drawn By: GoRoNb

A

B

C

D

A

B

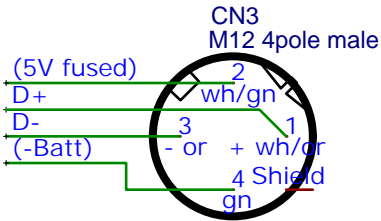
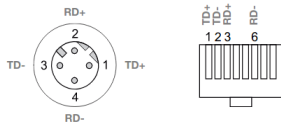
C

D

# USB\* or I<sup>2</sup>C\*\*

(\*) e. g. to Rooftop Unit

(\*\*) remove R43 + R46 and connect I<sup>2</sup>C to CN3

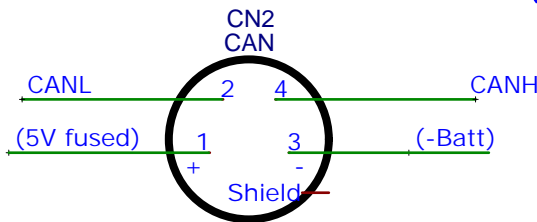


Cable M12D male-male 4pole, e. g. weidmueller.com

IE-C5DD4UG0030MCSMCS-E (1025950030)

4 pole 3m = 0030dm

# Controller Area Network (CAN)

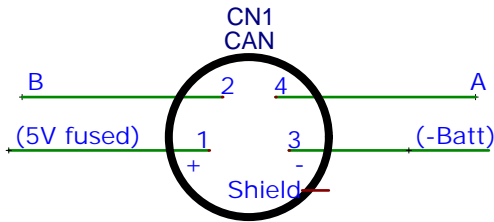


Cable M8 male 4pole, e. g. weidmueller.com

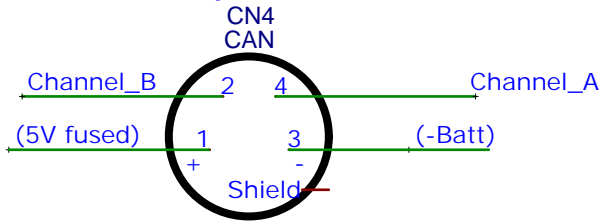
SAIL-M8G-4-3.0U (1906270300)

4 pole 3m unshielded = 0300cm

# RS485 / ModbusRTU



# Rotary Encoder



TITLE: Bus Connections		REV: 1.0
	Company: agopengps.discourse.group	Sheet: 1/1
	Date: 2021-01-09	Drawn By: GoRoNb