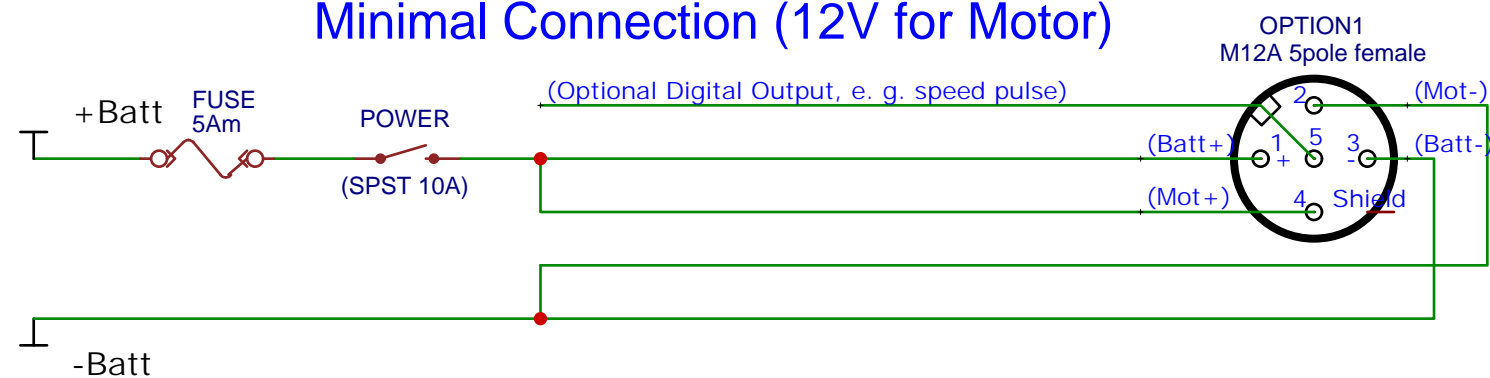
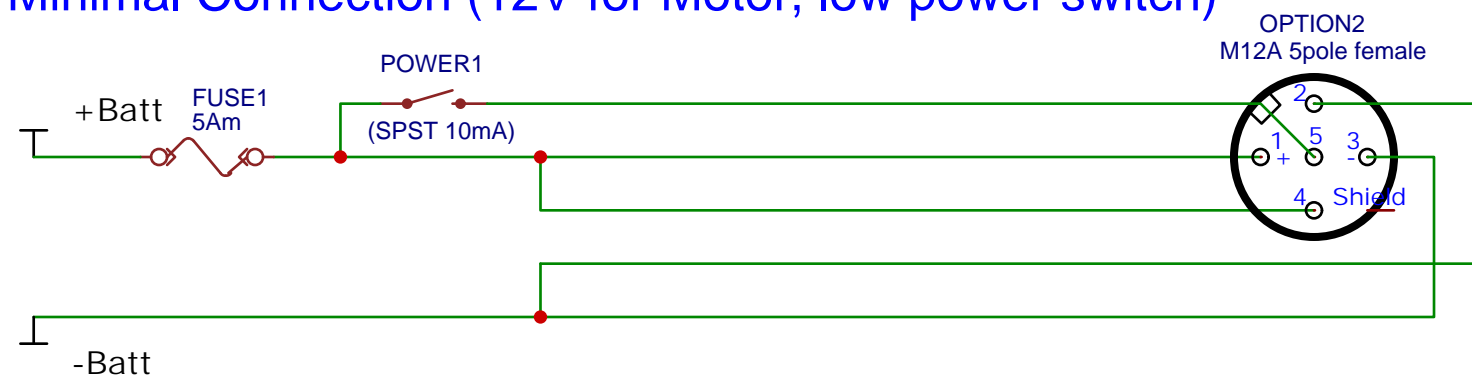


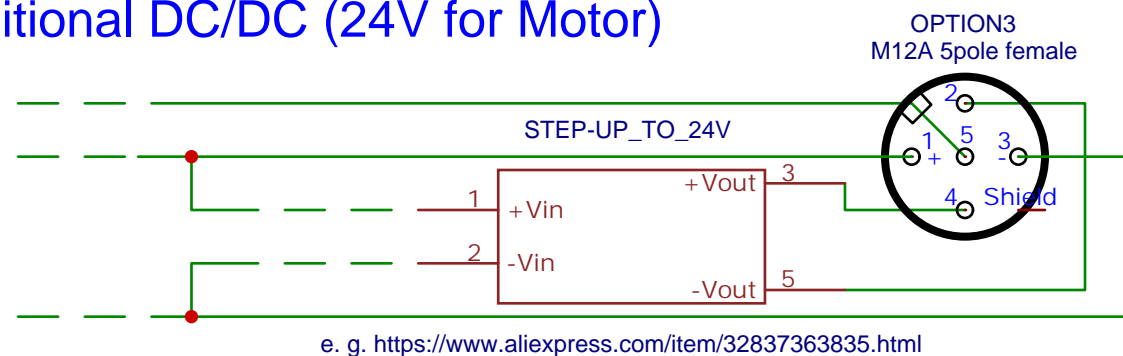
Minimal Connection (12V for Motor)



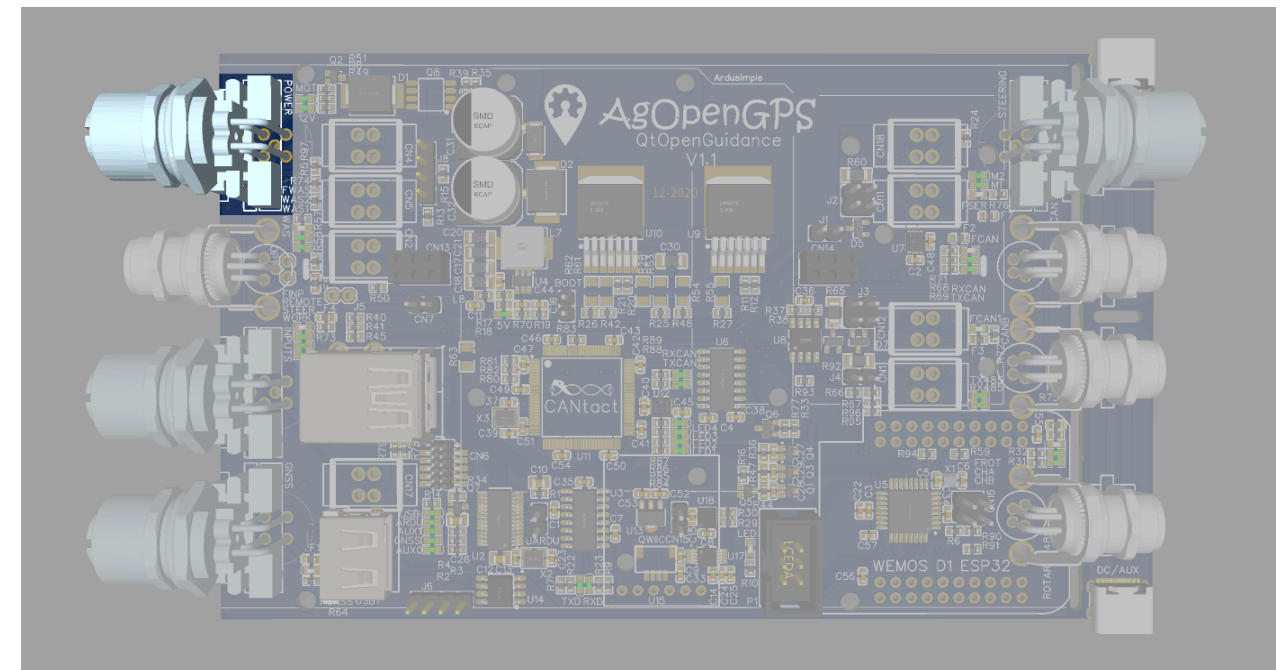
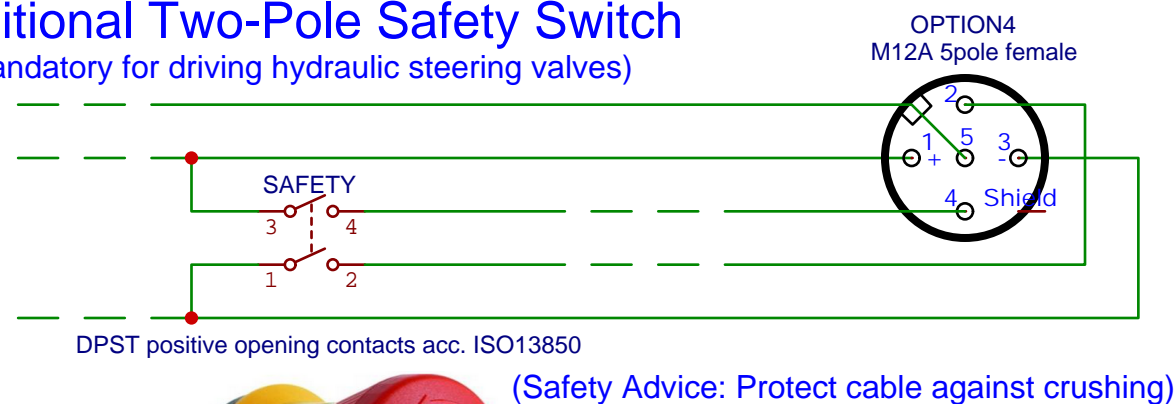
Minimal Connection (12V for Motor, low power switch)



Additional DC/DC (24V for Motor)



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

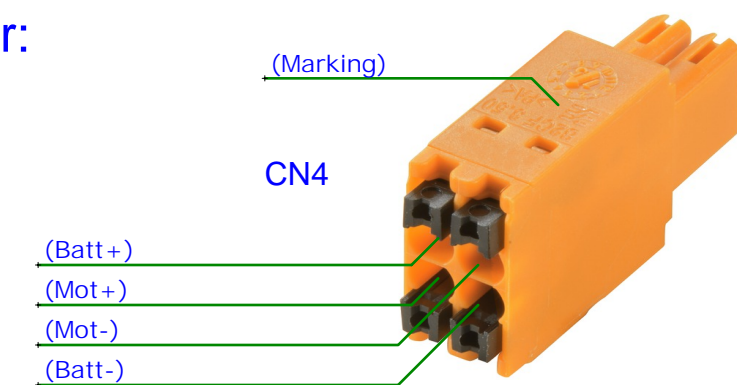


Cable M12-A female 4/5pole, e. g. weidmueller.com

SAIL-M12BG-5-1.5U (9457910150)

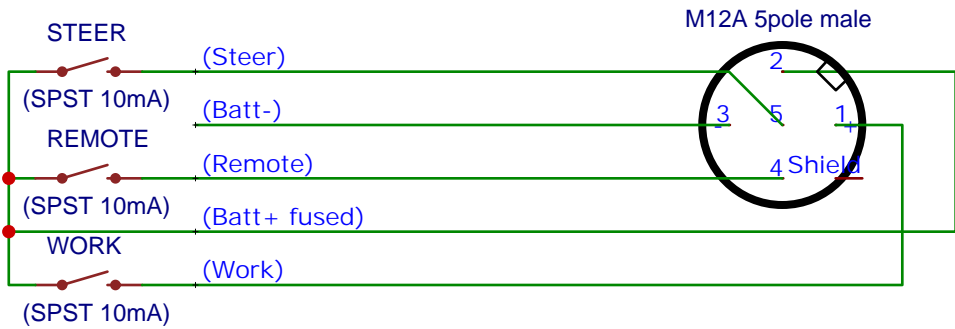
5 pole 1.5m unshielded = 0150cm

or:

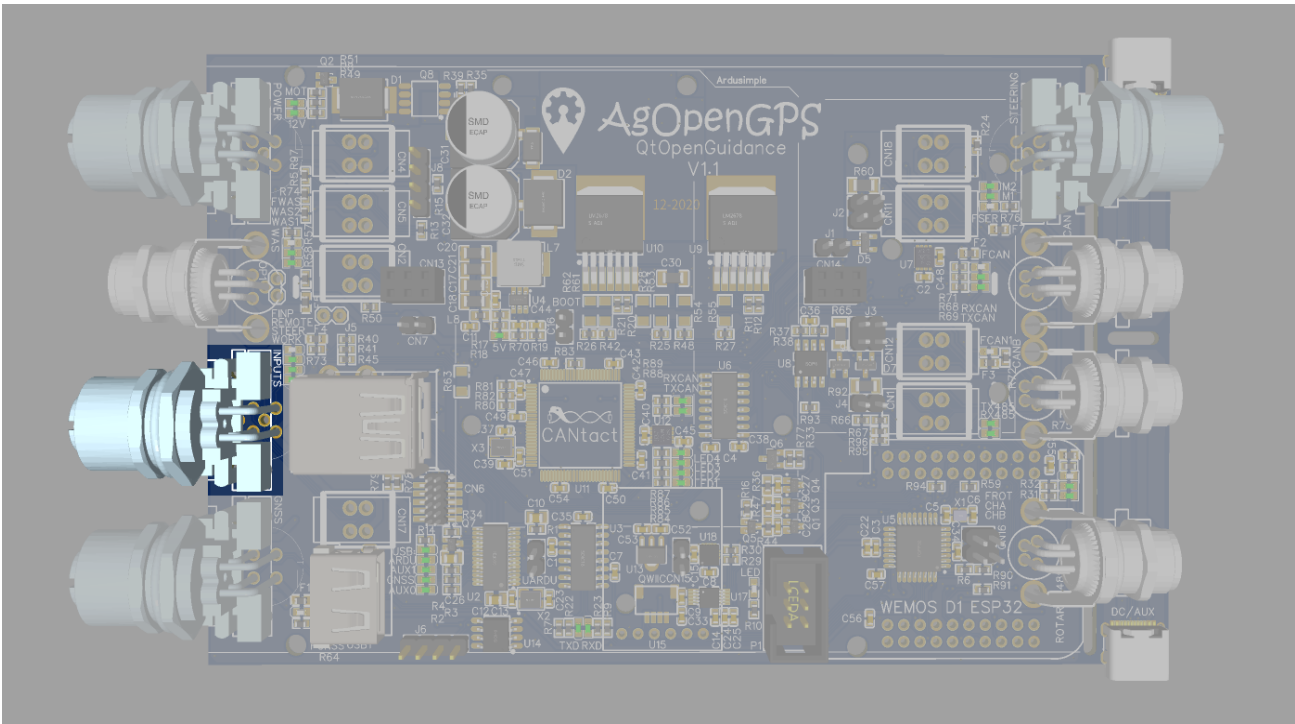


TITLE: Connecting Power Socket		REV: 1.0
EasyEDA	Company: agopengps.discourse.group	Sheet: 1/1
	Date: 2021-01-09	Drawn By: GoRoNb

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

or:

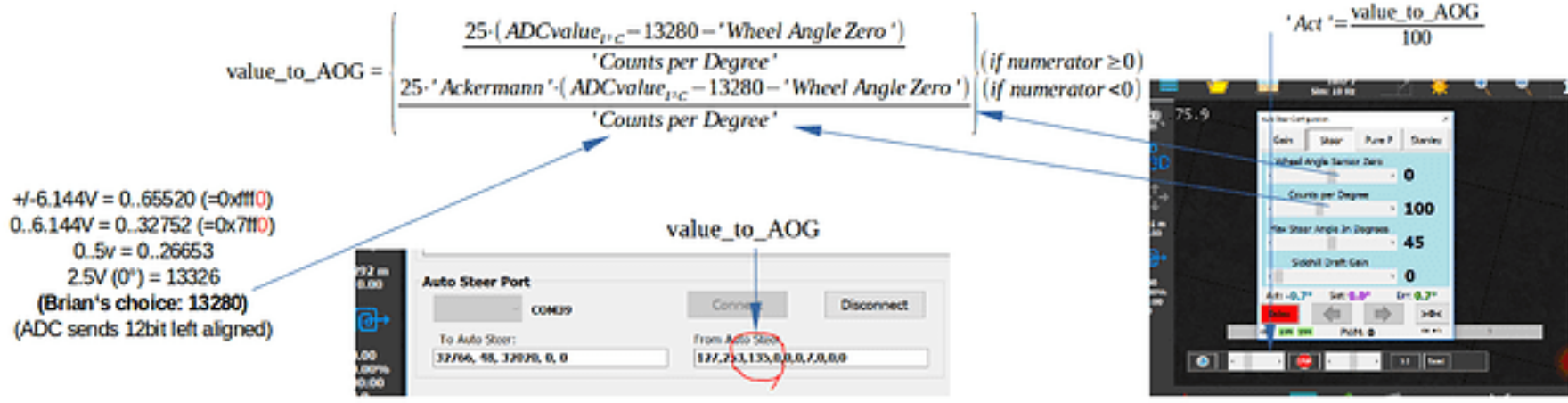
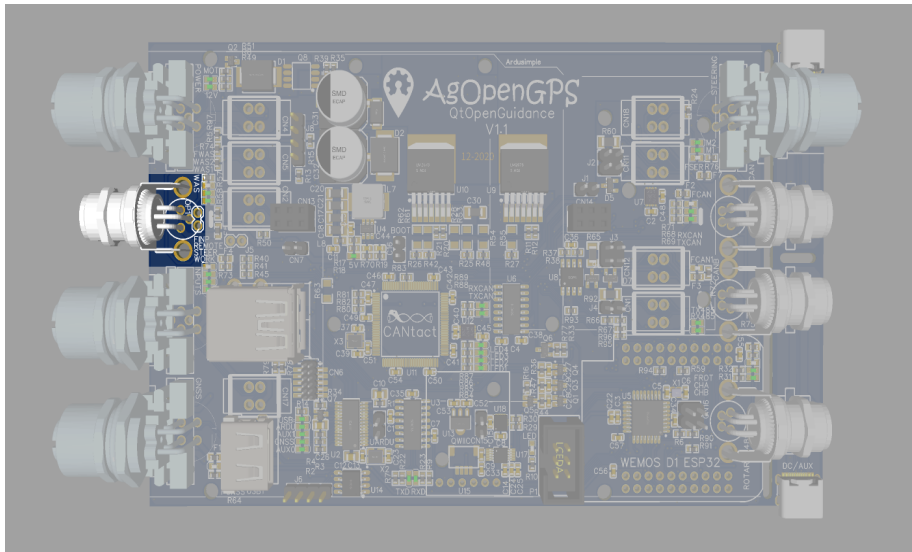
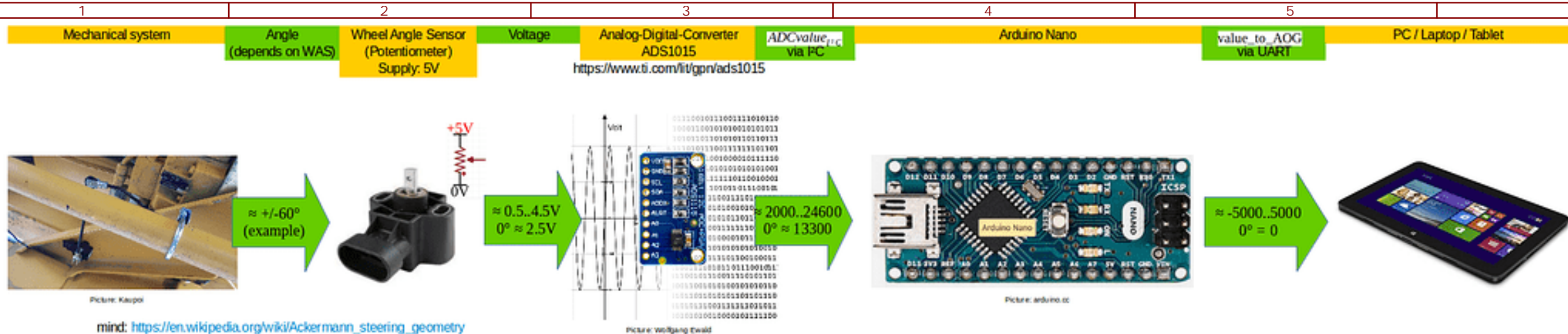


(Marking)

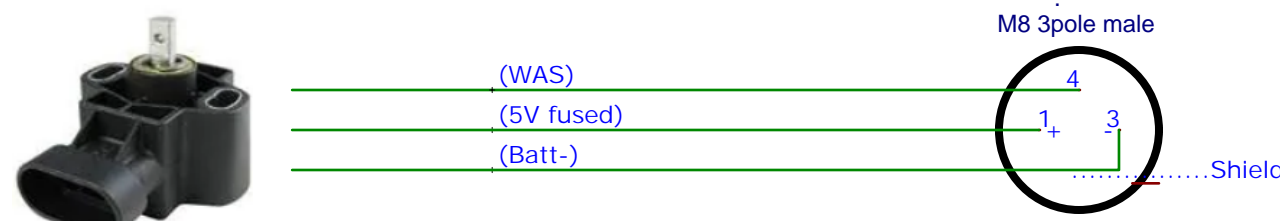
CN17

(Work)
(Batt+)
(Steer)
(Remote)

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



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

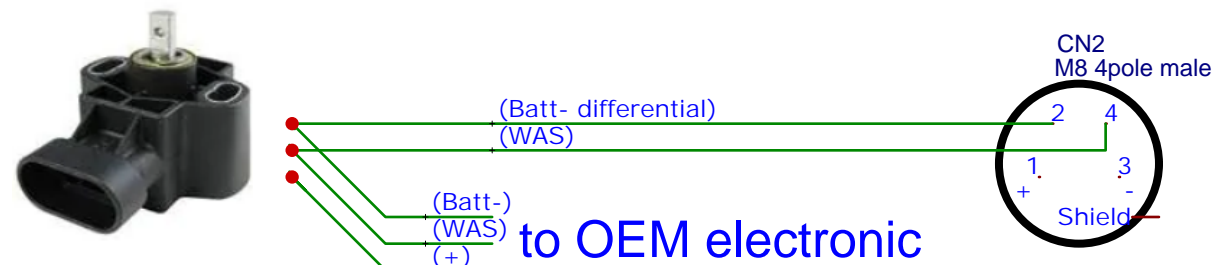
SAIL-M8G-3-3.0U (1824590300)

SAIL-M8G-4-3.0U (1906270300)

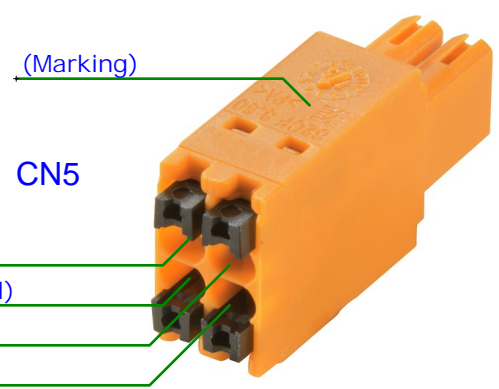
or:

4 pole 3m unshielded = 0300cm

Connection to OEM WAS



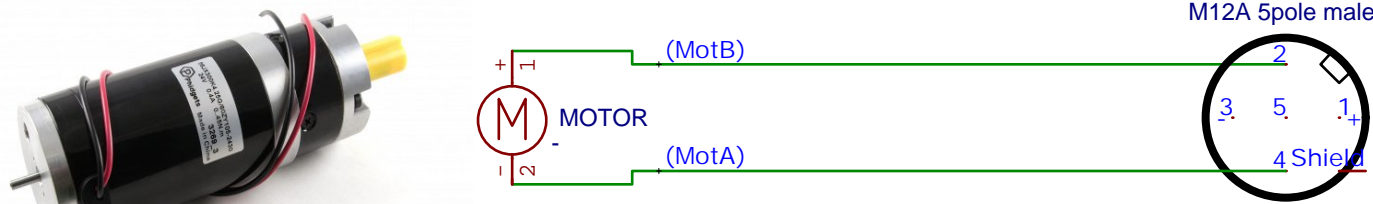
to OEM electronic



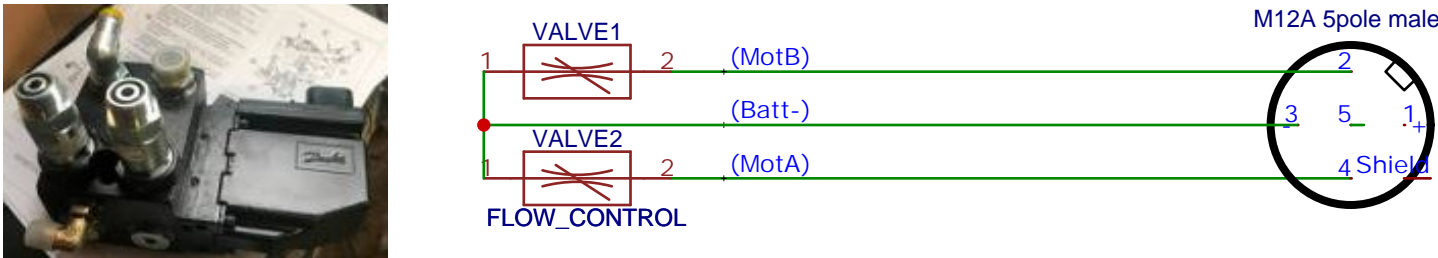
TITLE: Connecting the Wheel Angle Sensor (WAS)		REV: 1.0
EasyEDA	Company: agopengps.discourse.group	Sheet: 1/1
	Date: 2021-01-09	Drawn By: GoRoNb

A

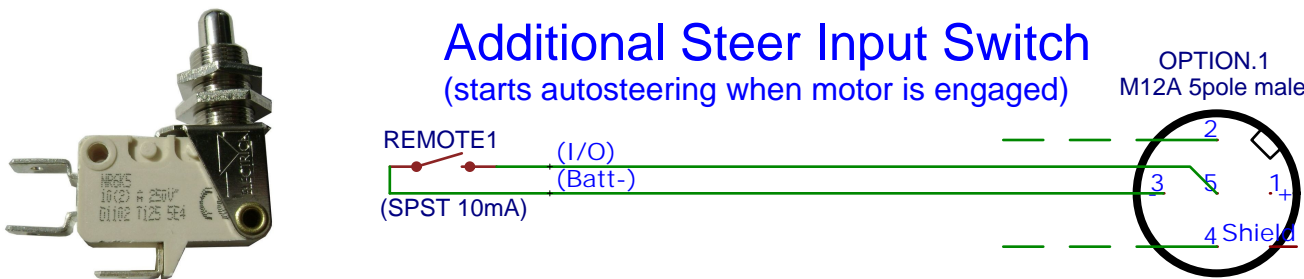
Connection to Steering Motor



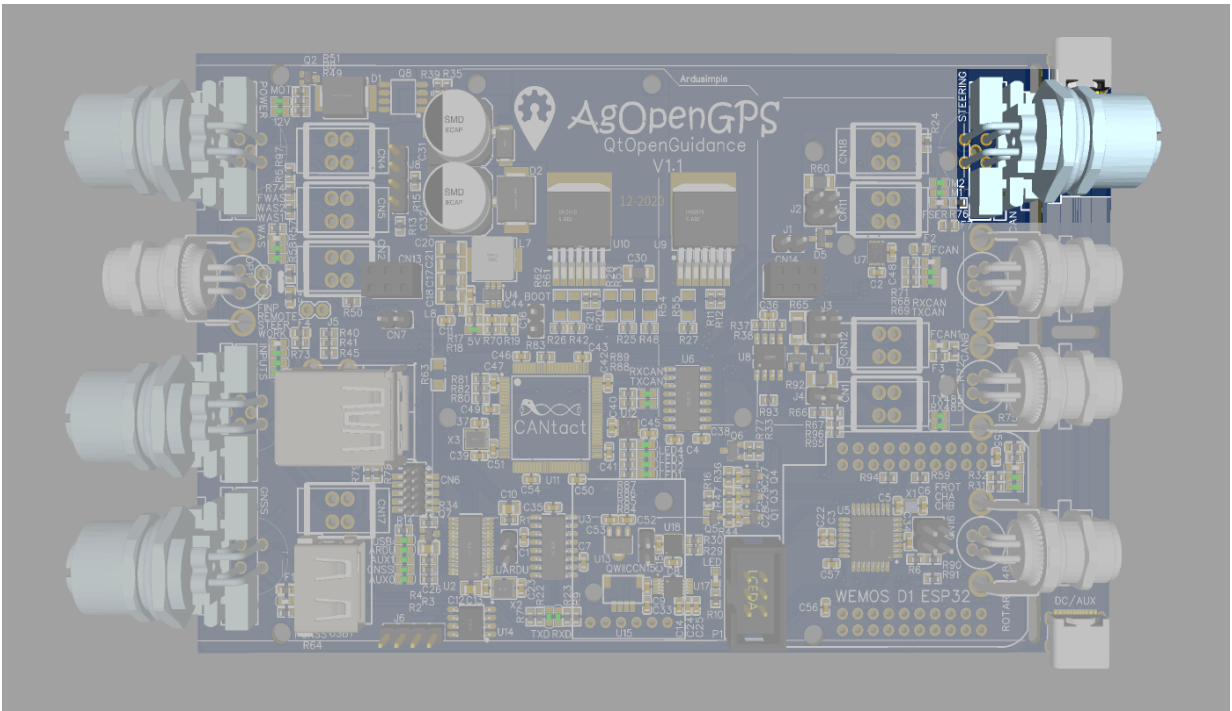
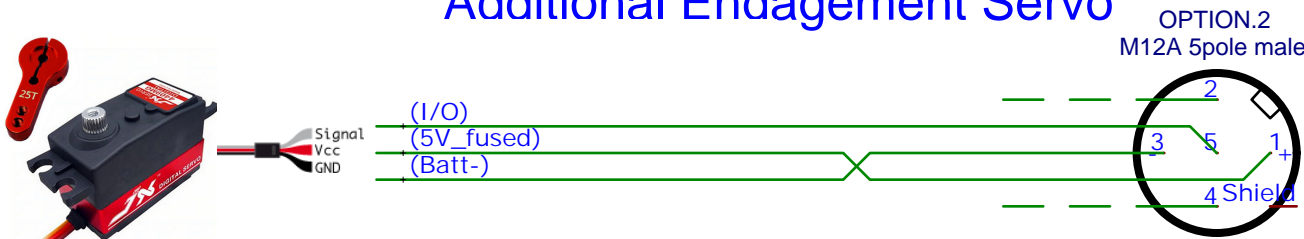
Connection to Hydraulic Valves



Additional Steer Input Switch
(starts autosteering when motor is engaged)



Additional Engagemet Servo

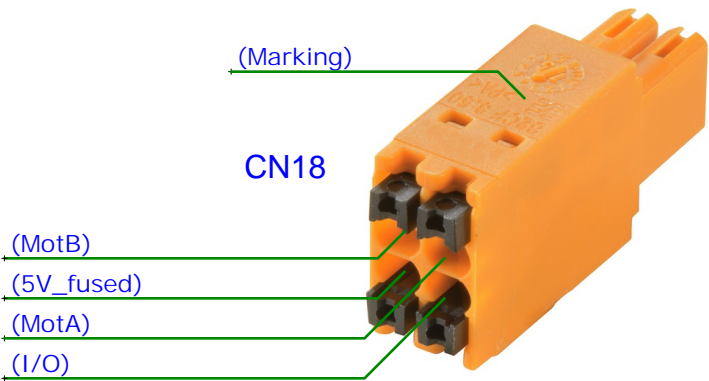


Cable M12-A male 4/5pole, e. g. weidmueller.com

SAIL-M12G-5-1.5U (9457610150)

5 pole 1.5m unshielded = 0150cm

or:



B

B

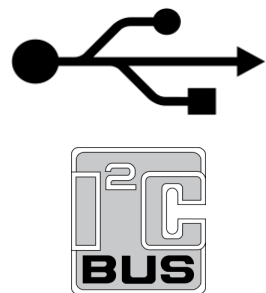
C

C

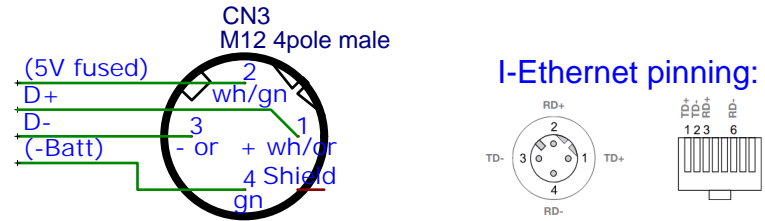
D

D

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

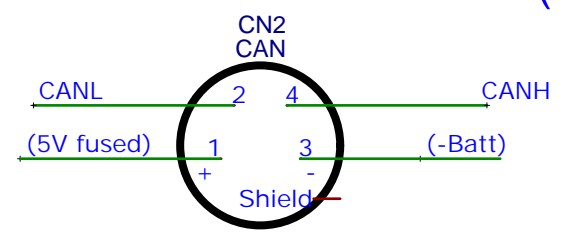


USB* or I²C**
(*) e. g. to Rooftop Unit
(**) remove R43 + R46 and connect I²C to CN3

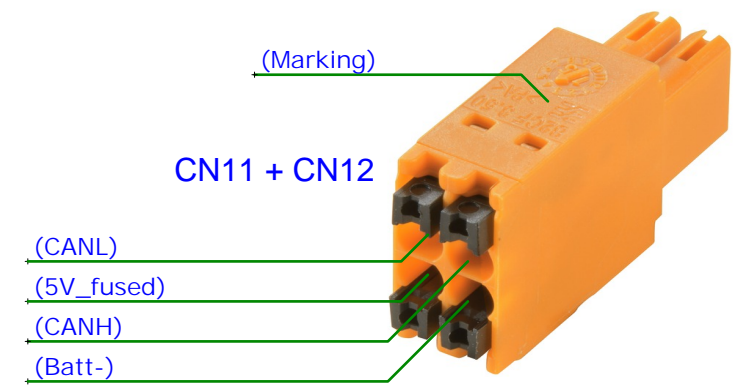


Cable M12D male-male 4pole, e. g. weidmueller.com
IE-C5DD4UG0030MCSMCS-E (1025950030)
4 pole 3m = 0030dm

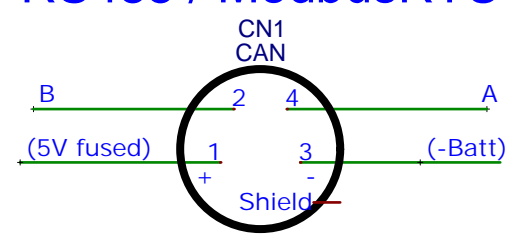
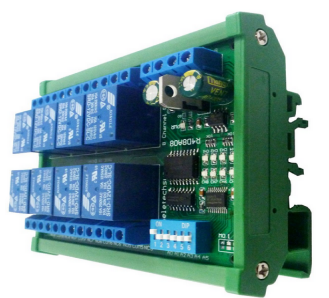
Controller Area Network (CAN)



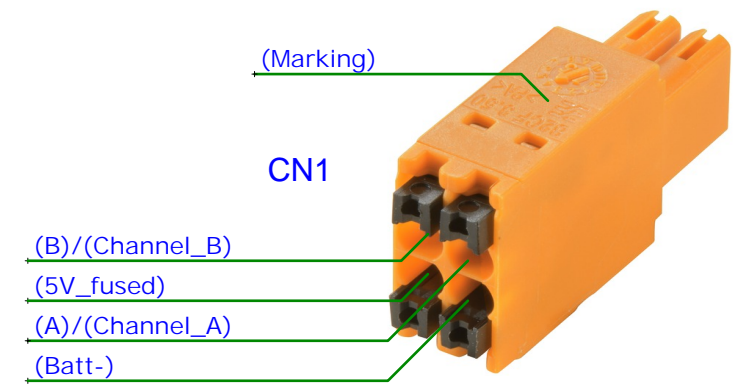
Cable M8 male 4pole, e. g. weidmueller.com
SAIL-M8G-4-3.0U (1906270300)
4 pole 3m unshielded = 0300cm



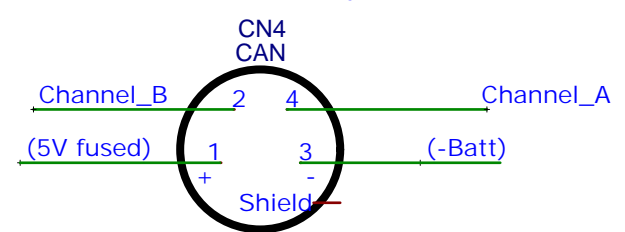
RS485 / ModbusRTU



or:



Alternative: Rotary Encoder



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