## Wiring-plan Electric Kart 08.08.2024 FWD: D1->A2 D2->24V REV: D1->24V D2->A2 **Direction** UI: selector switch (24V Supply), Emergency stop switch, Toggle switch (light) **A2** D<sub>2</sub> D1 1x50mm<sup>2</sup> 5mm LED 2.9kW **Motor** UI -> Control Oelflex 7x0.5mm<sup>2</sup> 2x 12V 100Ah gn: 5V (from control board) 1: 24V (main battery from IGBT board) **AGM Battery** 2: 24V power Switch (24V to supply control board) 3: LED (Transistor out, with R - control board) 4: Switch-1 to 5V (light) 5: Switch-2 to 5V (reserve) 6: Emergency switch (24V to Relay IGBT) 1x50mm<sup>2</sup> **GND** 1x2.5mm<sup>2</sup> **GND** Control -> IGBT IGBT, Oelflex 3x1.5mm<sup>2</sup> **Control Board** gn: Gate IGBT (through relay) [middle] Relay 1: Relay (on when 24V applied) [left] 2: 24V main Battery [2x right] Gas pedal -> Control Oelflex 3x2.5mm<sup>2</sup> gn: GND 1: Signal 2: 5V **24V Gas Pedal Front** Light