Circuit schematic diagram — ln2block_5

Key components and labels:

- RJ11-6L-B connectors (J1, J3)
- D1 1N5819-T, D2
- IC1 LM2936Z-5.0 (VIN, VO, GND)
- C1 100nF, C2 10uF, C3 10uF, C4 100nF, C5 100nF
- IC2P VCC
- LEDs: gelb LED1 1K5 R1 YELLOW, rot LED2 1K5 R2 RED, grün LED3 1K5 R3 GREEN, KEY LED4 1K5 R6 KEY_LED
- R4 4K7, R5 4K7, GND, I2C
- SCL, SDA, J2-1, J2-2, J2-3, J2-4
- R7 12R, R8 12R, T1 BC337 LN_INTERN, R9 129k, LN_RX
- C6 47pF, BASE, R10 3K3, LN_TX, R11 47k, C7 1nF
- SMF, J2
- MAX483 (IC2): DI 4, DE 3, RE/ 2, RO 1, A 6, B 7
- BL_TX, BL_DRV_EN
- R12 1K5, blau LED5
- R14 4K7, R15 4K7
- X1 Sub-D 9: TXP 1, TXM 2, RXN 4, RXP 5, R13 220R
- OK1 LTV816S: RXN_R 1, 4; RXP 2, 3, BL_RX
- OK2 LTV816S: RXP 1, 4; RXN_R 2, 3, BL_RX2
- I2C_INTA, I2C_INTB, INT, I2C_INT-1, I2C_INT-2
- M1 ARDUINO-NANO-3.0
  - J1.1 BL_TX D1/TX, J1.2 BL_RX D0/RX, J1.3 RST.1, J1.4 GND.1, J1.5 BLK_ON_OFF D2, J1.6 KEY_REL D3, J1.7 KEY_IN D4, J1.8 CONTACT D5, J1.9 BL_RX2 D6, J1.10 LN_TX D7, J1.11 LN_RX D8, J1.12 I2C_INTA D9, J1.13 I2C_INTB D10, J1.14 KEY_LED D11/MOSI, J1.15 D12/MISO
  - VIN J2.1, GND.2 J2.2, RST.2 J2.3, 5V J2.4, A7 J2.5, A6 J2.6, A5 SCL J2.7, A4 SDA J2.8, A3 GREEN J2.9, A2 RED J2.10, A1 YELLOW J2.11, A0 BL_DRV_EN J2.12, AREF J2.13, 3V3 J2.14, D13/SCK J2.15
  - USB
- K1 Reichelt MS 7175-L 5V, VCC, 5, 3, KEY_REL, 1N4148 D3
- SW1 505-1-1-6-40-00, BLK_ON_OFF, GND
- DIN connector: DIN, J4-1, J4-2, J4-3, J4-4
- J2 JP1: CONTACT_EXT 2, GND 1
- R16 4k7, R17 1k, CONTACT
- R18 4k7, R19 1k, KEY_IN
- K1 Reichelt MS 7175-L 5V, DIN 5 180, X2
- KEY_REL1, KEY_REL4, KEY_IN_EXT, PE, PE
- ZF4,7 D4, ZF4,7 D5, C8 100nF, C9 100nF

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