

BOM for TrafficLightPrint V2018A								
Name	Description	Count	Unit	Ordering Text German	Order Number	Supplier	Unit Price/30 [CHF]	Total
RPI2	40 Pin Connector Rasberry Pi	1	pcs	Socket & Kabelgehäuse 20+20 DIL VERTICAL SOCKET TIN	855-M20-7832046	Mouser	3.01	3.01
5V_SUP, MOT_SUP, PA5, PA6, PA7, SER_A, Ser_B	Pin Header 3 connector 2.54mm	7	pcs	Socket & Kabelgehäuse 03 SIL VERTICAL PIN HEADER GOLD HT	855-M20-9990345	Mouser	0.08	0.574
IMU	Pin Header 4 connector 2.54mm	1	pcs	Socket & Kabelgehäuse 04 SIL VERTICAL PIN HEADER GOLD HT	855-M20-9990445	Mouser	0.17	0.174
5V_SUP, MOT_SUP	Jumper 2 connector 2.54mm	2	pcs	Socket & Kabelgehäuse ECONOMY SHUNT ASSY	571-3828118	Mouser	0.117	0.234
5V_EXT, V_MOT	2pin screw Connector	2	pcs	Feste Anschlussblöcke 2P 2.54mm 90DEG	651-1725656	Mouser	1.46	2.92
MOTA	5pin screw Connector	1	pcs	Feste Anschlussblöcke 5P 2.54mm 90DEG	651-1725685	Mouser	3.63	3.63
ADR_LED	Screw Connector 3p	1	pcs	Feste Anschlussblöcke 3P 2.54mm 90DEG	651-1725669	Mouser	2.02	2.02
ISP	ISP Connector 6pol	1	pcs	Socket & Kabelgehäuse 6P IDC MALE STRAIGHT SOLDER PIN	617-09185066324	Mouser	1.12	1.12
5V_EXT_USB	USB Connector	1	pcs	USB-Stecker 5P MICRO USB TYPE B RCPT W/ REAR PEGS	649-10118194-0001LF	Mouser	0.37	0.367
IC1	Microcontroller SMD Attiny 861V-10SU	1	pcs	8-Bit Mikrocontroller - MCU AVR 8K FLASH 512B EE 512B SRAM ADC	556-ATTINY861V10SU	Mouser	1.84	1.84
IC2	H-Bridge	1	pcs	Brush Motor Driver IC	757-TB6612FNGC8EL	Mouser	1.61	1.61
IC3	Eeprom CAT24C32	1	pcs	EEPROM 32K-Bit I2C Serial EEPROM	698-CAT24C32WI-GT3	Mouser	0.37	0.368
Q1, Q2	Mos Fet Transistor	2	pcs	MOSFET 1 P-CH -55V HEXFET 65mOhms 42nC	942-IRFR5305PBF	Mouser	0.79	1.584
C2	Capacitor TH 3.5mm 47uF	1	pcs	Alu-Elektrolytkondensatoren - verdrahtet 47uF 16V 105c 5x11	647-UPJ1C470MDD1TD	Mouser	0.15	0.151
C5	Capacitor 47uF/16V SMD	1	pcs	Alu-Elektrolytkondensatoren - SMD 47uF 16V	667-EEE-1CA470WR	Mouser	0.17	0.169
C6, C7	Capacitor 1uF SMD 0603	2	pcs	Kondensator aus mehreren Keramiksichten MLCC - SMD/SMT 16V 1uF X5R 0603 10%	581-0603YD105K	Mouser	0.098	0.196
C1, C3, C4	Capacitor 0.1uF SMD 0603	3	pcs	Kondensator aus mehreren Keramiksichten MLCC - SMD/SMT 0603 0.1uF 25volts Y5V +80-20%	77-VJ0603V104ZXXCBC	Mouser	0.10	0.291
R6, R7, R8, R10, R11	Resistor 220 SMD 0603	5	pcs	Dickfilmwiderstände - SMD 0603 220ohm 5% Anti Surge AEC-Q200	755-ESR03EZPJ221	Mouser	0.02	0.12
R5	Resistor 1.8k SMD 0603	1	pcs	Dickfilmwiderstände - SMD 0603 1.8Kohm 5% Anti-Surge AEC-Q200	667-ERJ-PA3J182V	Mouser	0.02	0.023
R2, R3, R4	Resistor 3.9K SMD 0603	3	pcs	Dickfilmwiderstände - SMD 0603 3.9Kohm 5% Anti-Surge AEC-Q200	667-ERJ-PA3J392V	Mouser	0.02	0.069
R9	Resistor 5.6K SMD 0603	1	pcs	Dickfilmwiderstände - SMD 0603 5.6Kohm 5% Anti-Surge AEC-Q200	667-ERJ-PA3J562V	Mouser	0.023	0.023
R1	Resistor 10k SMD 0603	1	pcs	Dickfilmwiderstände - SMD 0603 10Kohm 5% Anti-Surge AEC-Q200	667-ERJ-PA3J103V	Mouser	0.023	0.023
LED2	LED Green SMD 0603	1	pcs	Standard-LEDs - SMD Green 568 nm Water Clear	749-SM0805GCL	Mouser	0.28	0.282
LED1	LED Red SMD 0603	1	pcs	Standard-LEDs - SMD 0805 Dome Lens LED Red-630nm	604-APTD2012LSURCK	Mouser	0.20	0.2
		1	pcs	Circuit Board		Multi Circuit	9.17	9.17
				Total Material				30.168