

Locolno In/Out

Ref Name	Qty	Component	Value	Package	Manufacturer	Farnell	Reichelt	Other Part Number	Description
FTDI 5P	1	1x2_Bruecke		1x02-oct			SL 1X40G 2,54		2 way Pin Header
T1	1	2N2222	BC337	TO92A			BC 337-40		NPN TRANSISTOR
T2	1	BC327	BC327	TO92A			BC 327-40		PNP TRANSISTOR
IC4	1	78XXS	78L05	TO92			MC 78L05 ACPG LP 2950 ACZ5,0	LP2950 ACZ5,0	VOLTAGE REGULATOR
J1	1	520250-3		520250-3	Molex 95501-2661	1536490		Econ Connect MEB6/6PL Voelkner Y726811	RJ12 Connector 6/6P
U1	1	ATmega328-TQFP		SMD	Atmel		ATMEGA 328P-AU		8-bit AVR Microcontroller 8Kb Prog Flash
C8	1	C2,5-3	15p	C025				TC-K15PF2 Voelkner S601721	CAPACITORnaming: grid - package width
C2, C4	2	C2,5-3	100n	C025					CAPACITORnaming: grid - package width
C5, C6, C7, C9	4	Capacitor	100n	0603			X7R-G0603 100N		Capacitor
C3	1	CPOL_RM2_D5	4.7µ	E2_D5			RAD 4,7/35		ELECTROLYTIC CAPACITOR grid 2mm, diameter 5mm
C1	1	CPOL_RM2.5_D7	47uF/35V	THT			RAD 47/35		ELECTROLYTIC CAPACITOR grid 2.54 mm, diameter 7 mm
D1, D2	2	Diode bedrahtet	1N4148	diod04			1N 4148		Diode
R3	1	FUSE PTC RM5	PTC/100mA	THT			PFRA 010		
S17	1	KMR2		SMD		1437636	KMR231 G LFS	KMR231 Voelkner S679772	OMRON SWITCH
LED1	1	LED3MM	LED3MM	3mm					LED3 mm, round
LED2	1	LED3MM	LED3MM	3mm					LED3 mm, round
IC2	1	LM311		DIL			LM 311 DIP		COMPARATOR
FTDI	1	PINHD-1X6-90		1x6-90			SL 1X40W 2,54		PIN HEADER
R7, R13	2	R-EU_0204/7	4K7	0204/7					RESISTOR, European symbol
R9	1	R-EU_0204/7	10k	0204/7					RESISTOR, European symbol
R8	1	R-EU_0204/7	22k	0204/7					RESISTOR, European symbol
R1, R2	2	R-EU_0204/7	33R	0204/7					RESISTOR, European symbol
R4	1	R-EU_0204/7	47K	0204/7					RESISTOR, European symbol
R5	1	R-EU_0204/7	150K	0204/7					RESISTOR, European symbol
R6	1	R-EU_0204/7	220K	0204/7					RESISTOR, European symbol
R10	1	Resistor SMD small	4k7	0603					
R11	1	Resistor SMD small	1k0	0603					
R12	1	Resistor SMD small	10k	0603					
X1	1	Resonator, 16,0 MHz,		CSTNE_V			CSTCE 16,0	CSTNE16M0V53C000R0	Resonator, 16,0 MHz,
RN1, RN2	2	SIL 9-8	8x 10k	SIL 9-8			SIL 9-8 10K		Resistor Network, optional
J2	1	ML6	AVR ISP6	ML6			WSL 6G		Wannenstecker, 6polig
	1	Case					SP 2090 SW		
Bestückungsoption Keypad									
S1..S16	16	10-XX		B3F-10XX			TASTER 3301B		OMRON SWITCH
Bestückungsoption Output									
R15 ... R29	16	Resistor SMD small	470R	0603					Strombegrenzung 10mA, kann angepasst werden
PL1 ... PL16	16	2pol-RM3-5					AKL 059-02		Anschlussklemme, 2-pol, Ø 1,5 mm, RM 3,5
Alternativ zu PL1 ... 16 können auch LEDs bestückt werden. Dazu müssen R15 ... R29 auf die Leuchtstärke angepasst werden									
As an alternative to PL1 ... 16, LEDs can also be fitted. To do this, R15 ... R29 must be adjusted to the light intensity.									
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