

BOM Interlocklogik v3, 18.03.2013

SMD-Komponenten

refdes	value	footprint	description	qty	Beschaffung (Beispiel)
T1R2, T1R7, T2R2, T2R7, T3R2, T3R7, T4R2, T4R7	0R	0805	resistor, SMD	8	
T1R3, T2R3, T3R3, T4R3	10R	0805	resistor, SMD	4	
C1R2, C2R2, C3R2, C4R2, C5R2, C6R2, C7R2, C8R2, C9R2, C10R2, C11R2, C12R2, C13R2, C14R2, C15R2, C16R2, C18R2, C19R2, C20R2, C21R2	100R	0805	resistor, SMD	20	
T1R11, T2R11, T3R11, T4R11	680R	0805	resistor, SMD	4	
C1R4, C2R4, C3R4, C4R4, C5R4, C6R4, C7R4, C8R4, C9R4, C10R4, C11R4, C12R4, C13R4, C14R4, C15R4, C16R4, C18R4, C19R4, C20R4, C21R4, PDR2, PDR5, R1, R4, R10, T1R4, T1R5, T2R4, T2R5, T3R4, T3R5, T4R4, T4R5	1k	0805	resistor, SMD	33	
C1R1, C2R1, C2R3, C3R1, C3R3, C4R1, C4R3, C5R1, C5R3, C6R1, C6R3, C7R1, C7R3, C8R1, C8R3, C9R1, C9R3, C10R1, C10R3, C11R1, C11R3, C12R1, C12R3, C13R1, C13R3, C14R1, C14R3, C15R1, C15R3, C16R1, C16R3, C18R1, C18R3, C19R1, C19R3, C1R3, C20R1, C20R3, C21R1, C21R3, PDR1, R2, R5, R7, R8, R9, T1R1, T1R9, T2R1, T2R9, T3R1, T3R9, T4R1, T4R9	10k	0805	resistor, SMD	54	
2R1, 2R2, PDR6, R3	100k	0805	resistor, SMD	4	
PDR4, T1R8, T2R8, T3R8, T4R8	1M	0805	resistor, SMD	5	
2C3	10n	0805	capacitor, SMD	1	
2C1, C23, PDC2, T1C1, T2C1, T3C1, T4C1	100n	0805	capacitor, SMD	7	
C22	10u/Tantal	tantal_7x4mm	tantal capacitor	1	Reichelt: SMD TAN. 10/35
2C4	100u/Tantal	tantal_7x4mm	tantal capacitor	1	Reichelt: SMD TAN. 100/6,3
2D1, PDD1	BAV103	dio_minimelf	diode, universal silicon	2	
D2, D3	LL4148	dio_minimelf	schottky diode	2	
	BAT64-04	SOT23	schottky diode pair	24	
C1D1, C2D1, C3D1, C4D1, C5D1, C6D1, C7D1, C8D1, C9D1, C10D1, C11D1, C12D1, C13D1, C14D1, C15D1, C16D1, C18D1, C19D1, C20D1, C21D1, T1D1, T2D1, T3D1, T4D1	BSS123	SOT23_GSD	MOSFET, n-channel	67	
C1Q1, C1Q2, C1Q3, C2Q2, C2Q3, C3Q1, C3Q2, C3Q3, C4Q1, C4Q2, C4Q3, C5Q1, C5Q2, C5Q3, C6Q1, C6Q2, C6Q3, C7Q1, C7Q2, C7Q3, C8Q1, C8Q2, C8Q3, C9Q1, C9Q2, C9Q3, C10Q1, C10Q2, C10Q3, C11Q1, C11Q2, C11Q3, C12Q1, C12Q2, C12Q3, C13Q1, C13Q2, C13Q3, C14Q1, C14Q2, C14Q3, C15Q1, C15Q2, C15Q3, C16Q1, C16Q2, C16Q3, C18Q1, C18Q2, C18Q3, C19Q1, C19Q2, C19Q3, C20Q1, C20Q2, C20Q3, C21Q1, C21Q2, C21Q3, C2Q1, PDQ1, PDQ2, Q1, Q2, Q3, Q4, Q5					
2U2	78L05	SOT89	positive regulator voltage regulator	1	
2U1	OP07	S08	operational amplifier	1	
PDU1, T1U1, T2U1, T3U1, T4U1	LM311	S08	generic comparator	5	

Anzahl SMD-Bauteile: 244

Bedrahtete Komponenten auf der Oberseite (=SMD-Seite)

refdes	value	footprint	description	qty	Beschaffung (Beispiel)
T1R6, T1R10, T2R6, T2R10, T3R6, T3R10, T4R6, T4R10	1k	VISHAY_T93YA	Trimmer, 5 x 10 x 10 mm, vertikal	8	Bürklin: 64 E 8252
PDR3	10k	VISHAY_T93YA	Trimmer, 5 x 10 x 10 mm, vertikal	1	Bürklin: 64 E 8258
U1, U2	Relay-FP2-5V	RELAY_FP2	Relais 5V, AXICOM FP2, oder FIC FRT5	2	Schukat: FRT5-DC05V
U3	F/UCW-03	BEEPER_F-UCW	digisound coil beeper	1	Bürklin: 36 M 4756
Anzahl bedrahtete Komponenten auf Oberseite:				12	

Bedrahtete Komponenten auf der Unterseite

D1, D4	LED green 2 mA	LED_3mm	LED, 3 mm, 2 mA, grün	2	Schukat: LED3GN2MA
C1D2, C2D2, C3D2, C4D2, C5D2, C6D2, C7D2, C8D2, C9D2, C10D2, C11D2, C12D2, C13D2, C14D2, C15D2, C16D2, C18D2, C19D2, C20D2, C21D2, PDD2	LED red 2 mA	LED_3mm	LED, 3 mm, 2 mA, rot	21	Schukat: LED3RT2MA
C1J1, C2J1, C3J1, C4J1, C5J1, C6J1, C7J1, C8J1, C9J1, C10J1, C11J1, C12J1, C13J1, C14J1, C15J1, C16J1, C18J1, C19J1, C20J1, C21J1	Jumper	JMP_2PIN	jumper	20	
C1J2, C20J2, C21J2, C2J2, C3J2, C4J2, C5J2, C6J2, C7J2, C8J2, C9J2, C10J2, C11J2, C12J2, C13J2, C14J2, C15J2, C16J2, C18J2, C19J2, J1, J2, J3, J4, T1J1, T1J2, T2J1, T2J2, T3J1, T3J2, T4J1, T4J2	Jumper	JMP_3PIN	three pin jumper	32	
CONN1, CONN2, CONN3, CONN7, CONN9, CONN13	J01001A1945	BNC_VERT	BNC connector	6	Schukat: UG1094PR-HP
CONN4, CONN8, CONN11, CONN12	PS-2Pin	PS_1x2PIN	connector by JAE, IL-G series, 2 pins, model IL-G-2S-S3C2-SA	4	Reichelt: PS 25/2G BR
CONN5, CONN6 CONN10	RJ45	RJ45_8P8C_vert	RJ45-Buchse, stehend	3	Schukat: MOD8VGT
S1	button	TYCO_FSMJ	Taster FSMJ, 17 mm hoch	1	Bürklin: 12 G 501
PDS1	MTS-1	MTS-1	generic switch, SPST	1	Pollin: 420 432
Anzahl bedrahtete Komponenten auf Unterseite:				67	

Komponenten außerhalb der Leiterplatte

refdes	value	footprint	description	qty	
für CONN12	XLR-Einbaustecker		Amphenol AC3MMDZ	1	Thomann: 233796
für CONN11, CONN8	XLR-Einbaubuchse		Amphenol AC3FDZ	2	Thomann: 233795

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SMD-Komponenten auf der Oberseite

refdes	value	footprint
2C1	100n	0805
2C3	10n	0805
2D1	BAV103	1206
2R1	100k	0805
2R2	100k	0805
2U1	OP07	S08
2U2	78L05	SOT89
C1D1	BAT64-04	SOT23
C1Q1	BSS123	SOT23_GSD
C1Q2	BSS123	SOT23_GSD
C1Q3	BSS123	SOT23_GSD
C1R1	10k	0805
C1R2	100R	0805
C1R3	10k	0805
C1R4	1k	0805
C2D1	BAT64-04	SOT23
C2Q1	BSS123	SOT23_GSD
C2Q2	BSS123	SOT23_GSD
C2Q3	BSS123	SOT23_GSD
C2R1	10k	0805
C2R2	100R	0805
C2R3	10k	0805
C2R4	1k	0805
C3D1	BAT64-04	SOT23
C3Q1	BSS123	SOT23_GSD
C3Q2	BSS123	SOT23_GSD
C3Q3	BSS123	SOT23_GSD
C3R1	10k	0805
C3R2	100R	0805
C3R3	10k	0805
C3R4	1k	0805
C4D1	BAT64-04	SOT23
C4Q1	BSS123	SOT23_GSD
C4Q2	BSS123	SOT23_GSD
C4Q3	BSS123	SOT23_GSD
C4R1	10k	0805
C4R2	100R	0805
C4R3	10k	0805
C4R4	1k	0805
C5D1	BAT64-04	SOT23
C5Q1	BSS123	SOT23_GSD
C5Q2	BSS123	SOT23_GSD
C5Q3	BSS123	SOT23_GSD
C5R1	10k	0805
C5R2	100R	0805
C5R3	10k	0805
C5R4	1k	0805
C6D1	BAT64-04	SOT23
C6Q1	BSS123	SOT23_GSD
C6Q2	BSS123	SOT23_GSD
C6Q3	BSS123	SOT23_GSD
C6R1	10k	0805
C6R2	100R	0805
C6R3	10k	0805
C6R4	1k	0805
C7D1	BAT64-04	SOT23
C7Q1	BSS123	SOT23_GSD
C7Q2	BSS123	SOT23_GSD
C7Q3	BSS123	SOT23_GSD
C7R1	10k	0805
C7R2	100R	0805
C7R3	10k	0805

Einzelbauteile

C7R4	1k	0805
C8D1	BAT64-04	SOT23
C8Q1	BSS123	SOT23_GSD
C8Q2	BSS123	SOT23_GSD
C8Q3	BSS123	SOT23_GSD
C8R1	10k	0805
C8R2	100R	0805
C8R3	10k	0805
C8R4	1k	0805
C9D1	BAT64-04	SOT23
C9Q1	BSS123	SOT23_GSD
C9Q2	BSS123	SOT23_GSD
C9Q3	BSS123	SOT23_GSD
C9R1	10k	0805
C9R2	100R	0805
C9R3	10k	0805
C9R4	1k	0805
C10D1	BAT64-04	SOT23
C10Q1	BSS123	SOT23_GSD
C10Q2	BSS123	SOT23_GSD
C10Q3	BSS123	SOT23_GSD
C10R1	10k	0805
C10R2	100R	0805
C10R3	10k	0805
C10R4	1k	0805
C11D1	BAT64-04	SOT23
C11Q1	BSS123	SOT23_GSD
C11Q2	BSS123	SOT23_GSD
C11Q3	BSS123	SOT23_GSD
C11R1	10k	0805
C11R2	100R	0805
C11R3	10k	0805
C11R4	1k	0805
C12D1	BAT64-04	SOT23
C12Q1	BSS123	SOT23_GSD
C12Q2	BSS123	SOT23_GSD
C12Q3	BSS123	SOT23_GSD
C12R1	10k	0805
C12R2	100R	0805
C12R3	10k	0805
C12R4	1k	0805
C13D1	BAT64-04	SOT23
C13Q1	BSS123	SOT23_GSD
C13Q2	BSS123	SOT23_GSD
C13Q3	BSS123	SOT23_GSD
C13R1	10k	0805
C13R2	100R	0805
C13R3	10k	0805
C13R4	1k	0805
C14D1	BAT64-04	SOT23
C14Q1	BSS123	SOT23_GSD
C14Q2	BSS123	SOT23_GSD
C14Q3	BSS123	SOT23_GSD
C14R1	10k	0805
C14R2	100R	0805
C14R3	10k	0805
C14R4	1k	0805
C15D1	BAT64-04	SOT23
C15Q1	BSS123	SOT23_GSD
C15Q2	BSS123	SOT23_GSD
C15Q3	BSS123	SOT23_GSD
C15R1	10k	0805
C15R2	100R	0805
C15R3	10k	0805
C15R4	1k	0805
C16D1	BAT64-04	SOT23
C16Q1	BSS123	SOT23_GSD
C16Q2	BSS123	SOT23_GSD

Einzelbauteile

C16Q3	BSS123	SOT23_GSD
C16R1	10k	0805
C16R2	100R	0805
C16R3	10k	0805
C16R4	1k	0805
C18D1	BAT64-04	SOT23
C18Q1	BSS123	SOT23_GSD
C18Q2	BSS123	SOT23_GSD
C18Q3	BSS123	SOT23_GSD
C18R1	10k	0805
C18R2	100R	0805
C18R3	10k	0805
C18R4	1k	0805
C19D1	BAT64-04	SOT23
C19Q1	BSS123	SOT23_GSD
C19Q2	BSS123	SOT23_GSD
C19Q3	BSS123	SOT23_GSD
C19R1	10k	0805
C19R2	100R	0805
C19R3	10k	0805
C19R4	1k	0805
C20D1	BAT64-04	SOT23
C20Q1	BSS123	SOT23_GSD
C20Q2	BSS123	SOT23_GSD
C20Q3	BSS123	SOT23_GSD
C20R1	10k	0805
C20R2	100R	0805
C20R3	10k	0805
C20R4	1k	0805
C21D1	BAT64-04	SOT23
C21Q1	BSS123	SOT23_GSD
C21Q2	BSS123	SOT23_GSD
C21Q3	BSS123	SOT23_GSD
C21R1	10k	0805
C21R2	100R	0805
C21R3	10k	0805
C21R4	1k	0805
C23	100nF	0805
D2	LL4148	dio_minimelf
D3	LL4148	dio_minimelf
PDC2	100n	0805
PDD1	BAV103	dio_minimelf
PDQ1	BSS123	SOT23_GSD
PDQ2	BSS123	SOT23_GSD
PDR1	10k	0805
PDR2	1k	0805
PDR4	1M	0805
PDR5	1k	0805
PDR6	100k	0805
PDU1	LM311	SO8
Q1	BSS123	SOT23_GSD
Q2	BSS123	SOT23_GSD
Q3	BSS123	SOT23_GSD
Q4	BSS123	SOT23_GSD
Q5	BSS123	SOT23_GSD
R1	1k	0805
R2	10k	0805
R3	100k	0805
R4	1k	0805
R5	10k	0805
R7	10k	0805
R8	10k	0805
R9	10k	0805
R10	1k	0805
T1C1	100n	0805
T1D1	BAT64-04	SOT23
T1R1	10k	0805
T1R2	0R	0805

Einzelbauteile

T1R3	10R	0805
T1R4	1k	0805
T1R5	1k	0805
T1R7	0R	0805
T1R8	1M	0805
T1R9	10k	0805
T1R11	680R	0805
T1U1	LM311	SO8
T2C1	100n	0805
T2D1	BAT64-04	SOT23
T2R1	10k	0805
T2R2	0R	0805
T2R3	10R	0805
T2R4	1k	0805
T2R5	1k	0805
T2R7	0R	0805
T2R8	1M	0805
T2R9	10k	0805
T2R11	680R	0805
T2U1	LM311	SO8
T3C1	100n	0805
T3D1	BAT64-04	SOT23
T3R1	10k	0805
T3R2	0R	0805
T3R3	10R	0805
T3R4	1k	0805
T3R5	1k	0805
T3R7	0R	0805
T3R8	1M	0805
T3R9	10k	0805
T3R11	680R	0805
T3U1	LM311	SO8
T4C1	100n	0805
T4D1	BAT64-04	SOT23
T4R1	10k	0805
T4R2	0R	0805
T4R3	10R	0805
T4R4	1k	0805
T4R5	1k	0805
T4R7	0R	0805
T4R8	1M	0805
T4R9	10k	0805
T4R11	680R	0805
T4U1	LM311	SO8

Bedrahtete Komponenten auf der Oberseite (=SMD-Seite)

refdes	value	footprint
2C4	100uF/Tantal	tantal_7x4mm
C22	10u	tantal_7x4mm
PDR3	10k	VISHAY_T93YA
T1R6	1k	VISHAY_T93YA
T1R10	1k	VISHAY_T93YA
T2R6	1k	VISHAY_T93YA
T2R10	1k	VISHAY_T93YA
T3R6	1k	VISHAY_T93YA
T3R10	1k	VISHAY_T93YA
T4R6	1k	VISHAY_T93YA
T4R10	1k	VISHAY_T93YA
U3	F/UCW-03	BEEPER_F-UCW

Bedrahtete Komponenten auf der Unterseite

refdes	value	footprint
C1D2	Led red 2 mA	LED_3mm
C1J1	Jumper	JMP_2PIN
C1J2	JMP	JMP_3PIN
C2D2	Led red 2 mA	LED_3mm
C2J1	Jumper	JMP_2PIN
C2J2	JMP	JMP_3PIN

Einzelbauteile

C3D2	Led red 2 mA	LED_3mm
C3J1	Jumper	JMP_2PIN
C3J2	JMP	JMP_3PIN
C4D2	Led red 2 mA	LED_3mm
C4J1	Jumper	JMP_2PIN
C4J2	JMP	JMP_3PIN
C5D2	Led red 2 mA	LED_3mm
C5J1	Jumper	JMP_2PIN
C5J2	JMP	JMP_3PIN
C6D2	Led red 2 mA	LED_3mm
C6J1	Jumper	JMP_2PIN
C6J2	JMP	JMP_3PIN
C7D2	Led red 2 mA	LED_3mm
C7J1	Jumper	JMP_2PIN
C7J2	JMP	JMP_3PIN
C8D2	Led red 2 mA	LED_3mm
C8J1	Jumper	JMP_2PIN
C8J2	JMP	JMP_3PIN
C9D2	Led red 2 mA	LED_3mm
C9J1	Jumper	JMP_2PIN
C9J2	JMP	JMP_3PIN
C10D2	Led red 2 mA	LED_3mm
C10J1	Jumper	JMP_2PIN
C10J2	JMP	JMP_3PIN
C11D2	Led red 2 mA	LED_3mm
C11J1	Jumper	JMP_2PIN
C11J2	JMP	JMP_3PIN
C12D2	Led red 2 mA	LED_3mm
C12J1	Jumper	JMP_2PIN
C12J2	JMP	JMP_3PIN
C13D2	Led red 2 mA	LED_3mm
C13J1	Jumper	JMP_2PIN
C13J2	JMP	JMP_3PIN
C14D2	Led red 2 mA	LED_3mm
C14J1	Jumper	JMP_2PIN
C14J2	JMP	JMP_3PIN
C15D2	Led red 2 mA	LED_3mm
C15J1	Jumper	JMP_2PIN
C15J2	JMP	JMP_3PIN
C16D2	Led red 2 mA	LED_3mm
C16J1	Jumper	JMP_2PIN
C16J2	JMP	JMP_3PIN
C18D2	Led red 2 mA	LED_3mm
C18J1	Jumper	JMP_2PIN
C18J2	JMP	JMP_3PIN
C19D2	Led red 2 mA	LED_3mm
C19J1	Jumper	JMP_2PIN
C19J2	JMP	JMP_3PIN
C20D2	Led red 2 mA	LED_3mm
C20J1	Jumper	JMP_2PIN
C20J2	JMP	JMP_3PIN
C21D2	Led red 2 mA	LED_3mm
C21J1	Jumper	JMP_2PIN
C21J2	JMP	JMP_3PIN
CONN1	J01001A1945	BNC_VERT
CONN2	J01001A1945	BNC_VERT
CONN3	J01001A1945	BNC_VERT
CONN4	PS-2Pin	PS_1x2PIN
CONN5	RJ45	RJ45_8P8C_vert
CONN6	RJ45	RJ45_8P8C_vert
CONN7	J01001A1945	BNC_VERT
CONN8	PS-2pin	PS_1x2PIN
CONN9	J01001A1945	BNC_VERT
CONN10	RJ45	RJ45_8P8C_vert
CONN11	PS-2pin	PS_1x2PIN
CONN12	PS-2pin	PS_1x2PIN

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CONN13	J01001A1945	BNC_VERT
D1	LED green 2 mA	LED_3mm
D4	LED green 2 mA	LED_3mm
J1	JMP	JMP_3PIN
J2	JMP	JMP_3PIN
J3	JMP	JMP_3PIN
J4	JMP	JMP_3PIN
PDD2	LED red 2 mA	LED_3mm
PDS1	MTS-1	MTS-1
S1	button	TYCO_FSMJ
T1J1	JMP	JMP_3PIN
T1J2	JMP	JMP_3PIN
T2J1	JMP	JMP_3PIN
T2J2	JMP	JMP_3PIN
T3J1	JMP	JMP_3PIN
T3J2	JMP	JMP_3PIN
T4J1	JMP	JMP_3PIN
T4J2	JMP	JMP_3PIN
U1	Relay-FP2-5V	RELAY_FP2
U2	Relay-FP2-5V	RELAY_FP2

Einzelbauteile

Einzelbauteile

Einzelbauteile

Einzelbauteile

Einzelbauteile

Einzelbauteile