

## PlantController\_BOM

Schematic part name	Value	Type	Where to buy	Order number
<b>Controller Board</b>	<b>PlantControllerSimplified</b>			
<b>Arduino</b>				
Arduino Mega	Arduino Mega 2560			<a href="http://arduino.cc/en/Main/arduinoBoardMega2560">http://arduino.cc/en/Main/arduinoBoardMega2560</a>
<b>IR proximity sensors</b>				
	Sharp proximity sensor	GP2Y0A21YK	<a href="http://www.farnell.nl">http://www.farnell.nl</a>	1243869
<b>LEDs</b>				
REL1,REL2	LED5MM		<a href="http://www.farnell.nl">http://www.farnell.nl</a>	1003216
<b>Resistors</b>				
R4,R7	1k			
R2,R6	60		<a href="http://www.farnell.nl">http://www.farnell.nl</a>	9333975
R1,R15	100R			
R3,R5	100k			
<b>Capacitors</b>				
C4,C5	10uF		<a href="http://www.farnell.nl">http://www.farnell.nl</a>	209-4042
C3,C23	470uF		<a href="http://nl.rs-online.com/">http://nl.rs-online.com/</a>	729-6251
<b>Inductors</b>				
L1,L2			<a href="http://nl.rs-online.com/">http://nl.rs-online.com/</a>	724-1488
<b>Diodes</b>				
D2,D3	1N4007	1N4004	<a href="http://www.farnell.nl">http://www.farnell.nl</a>	1467514
<b>FETs</b>				
Q1,Q2	BS170	BS170	<a href="http://www.farnell.nl">http://www.farnell.nl</a>	2101401
<b>Relays</b>				
K1,K2	RT314005	RT314005	<a href="http://www.farnell.nl">http://www.farnell.nl</a>	1629044
<b>Sensor board</b>	<b>PlantControllerSensorBoardSimplified</b>			
<b>LEDs</b>				
SENS1,SENS2,SENS3,STAT1,STAT2,STAT3,STAT4,STAT5	LED3MM		<a href="http://www.farnell.nl">http://www.farnell.nl</a>	1863178
<b>Resistors</b>				
R7,R8,R9,R10,R11,R12,R13,R14	1K			
R2,R4,R6	10K			
R1,R3,R5	10M		<a href="http://www.farnell.nl">http://www.farnell.nl</a>	1469858,1887390,1887392,1887395
<b>Capacitors</b>				
C12,C13,C14,C15	0.1uF			
C1	10uF			
C7,C8,C9,C10	330nF		<a href="http://www.farnell.nl">http://www.farnell.nl</a>	1833878
<b>ICs</b>				
U1,U2,U3,U4	LTC2631-Z	LTC2631-Z	<a href="http://www.farnell.nl">http://www.farnell.nl</a>	1715120