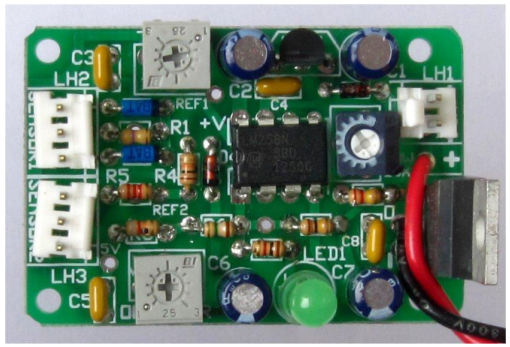
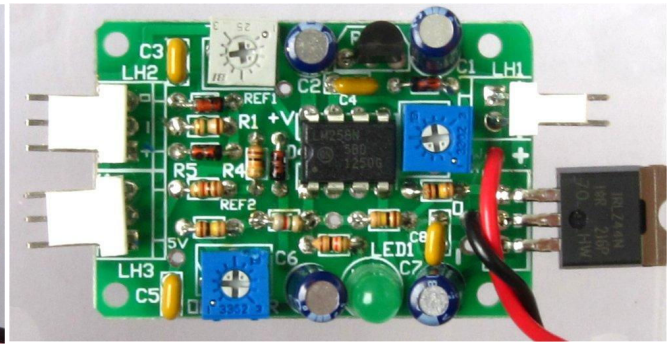
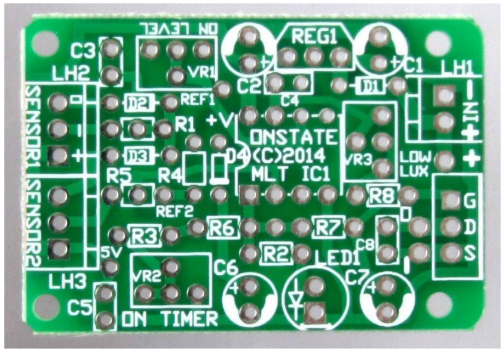
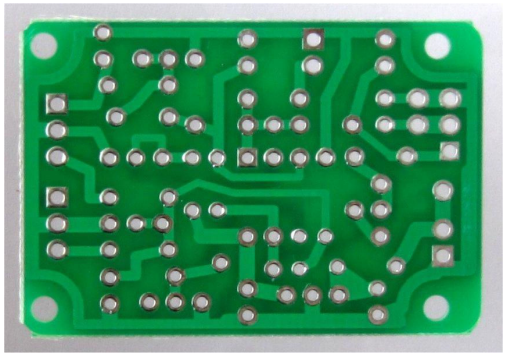
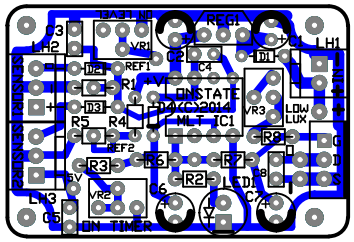




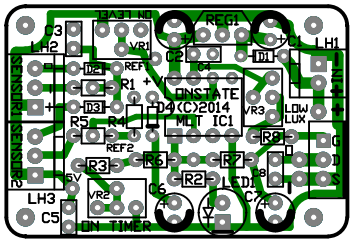




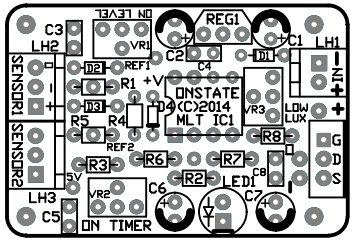
Bottom Layer Trace



Top Layer Trace



Legend Labels

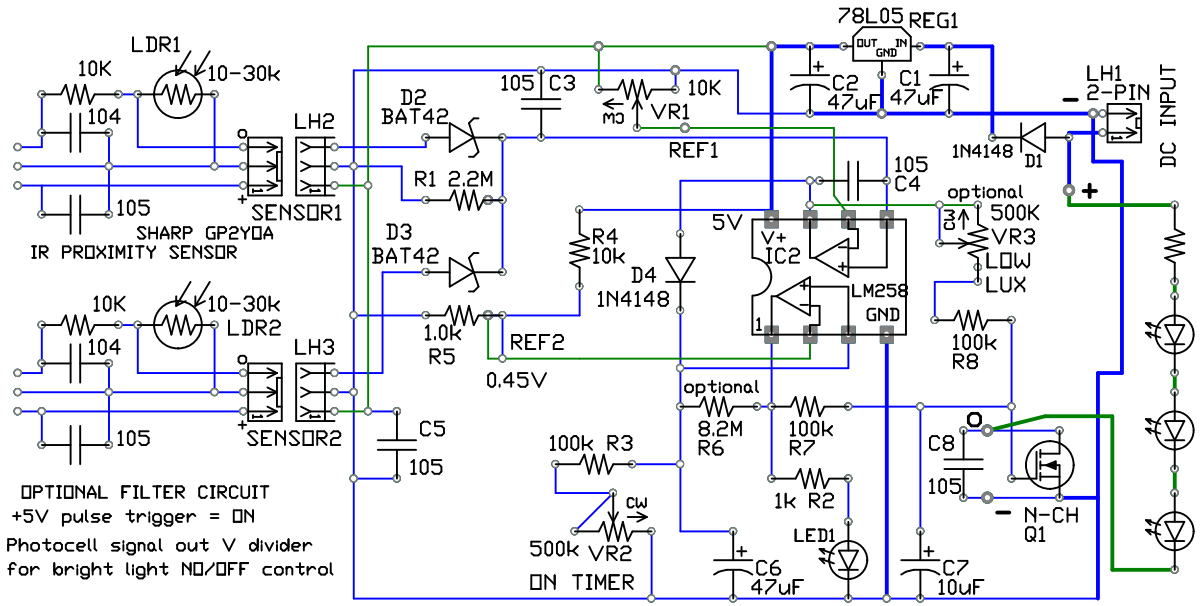


Onstate Technologies

Motion LED Light Timer
Part: PEMLT (C)2014

PROXIMITY SENSOR INPUT

All *-ND are Digi-Key part codes (Digi-key.com)
All resistors: 1/8W, 5%
(value)EBK-ND, eg. 100KEBK-ND (100K)
Trimmer resistors (VR), Cermet, PC pins
3362U/3362P-<VALUE>LF-ND, top adj. 103=10k
3362M/S/Z-1-<VALUE>LF, side adj.
D1: 1N4148, general Si diode, 0.2A
LM78L05, 5V reg, 0.1A
D2/D3: 497-2495-2-ND, BAT42 schottky, 30V, 0.2A
Caps C*: mono cer. 104=0.1uF, 103=0.01uF, 105=1.0uF
C1/C2: power filter, any type >10uF
IC1: LM258N dual OP-AMP
Q1: N-CH MOSFET, IRLZ*4, logic
C3/R1= trigger TIMER1 delay
VR2/C6= TIMER2, total LED ON time
VR3= Low brightness level adjustmest
C7= LED ON gradual ON/OFF delay



VR1=0.25-0.4V, measure at REF1.
R1 TIMER1: 1M=15-18s, 2.2M=25-30s, VR1 dependent.

R3/VR2 TIME2: 10s min. 60s center.
R8/VR3: TIMER1 dual brightness, LOW.