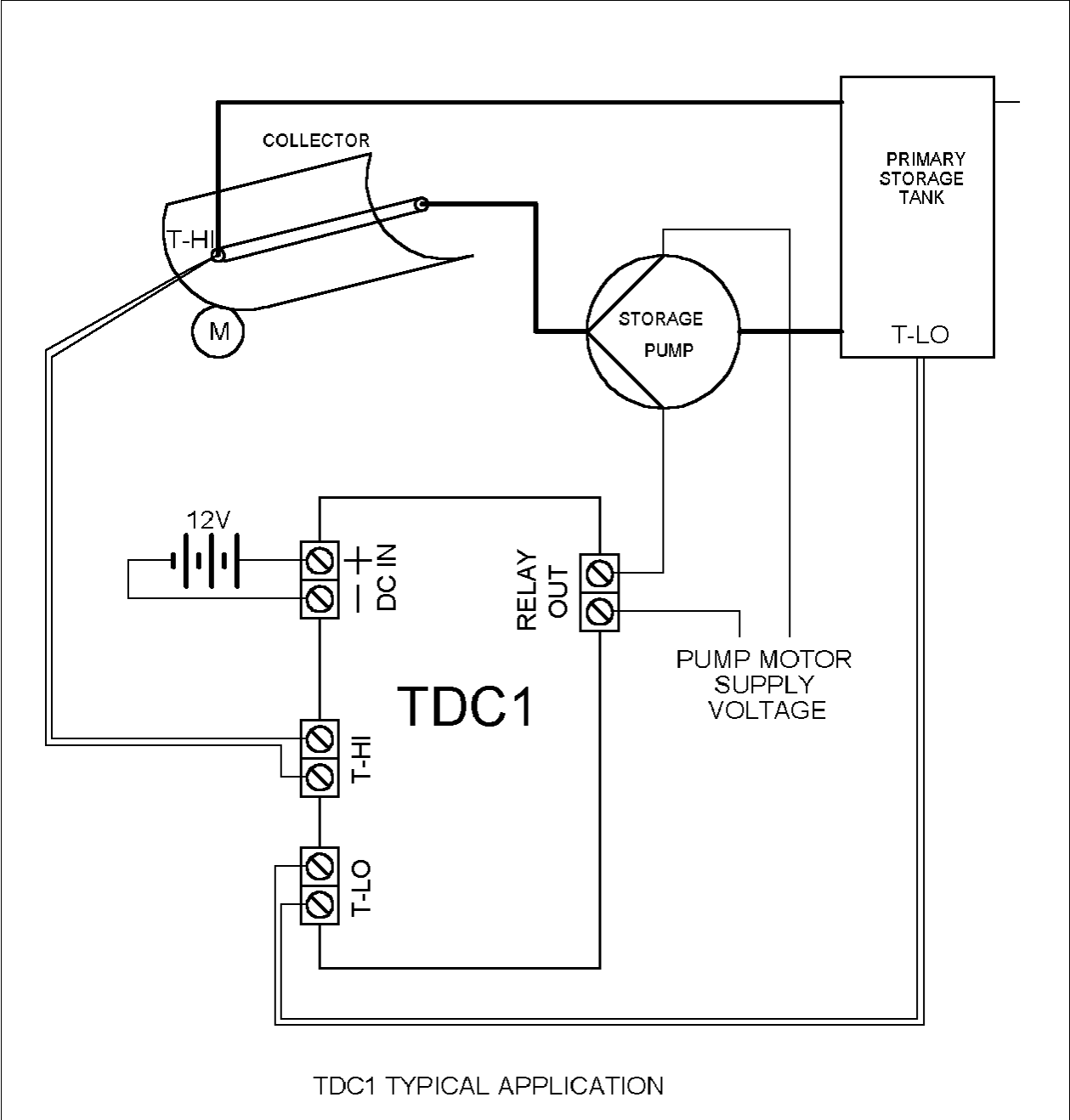
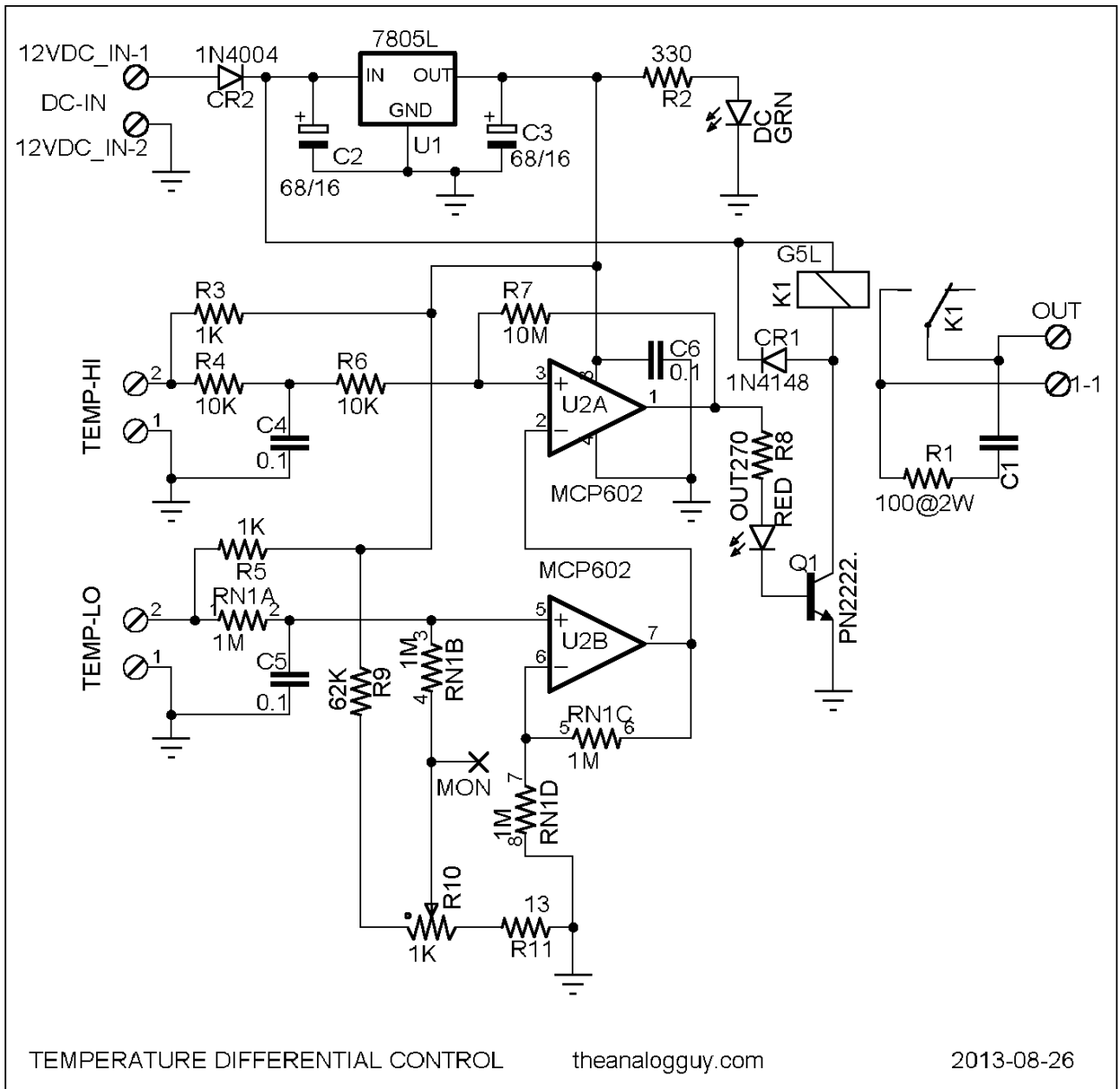


The TDC1 is a temperature differential temperature control that provides a normally open relay contact that closes when $T-HI = T-LO + \Delta T$. ΔT is adjustable from 2 to 10 degrees C.

Relay output:
6 Amps @ 250 VAC maximum or
6 Amps @ 28 VDC maximum

Temperature sensors:
Operating range: -40 to +100 degrees C.
Maximum allowable temperature excursion: 125 degrees C.
End dimensions: 0.25" diameter by 0.5" long
Attached wire length: 2 feet





Notes:

Temperature sensors are polarized—red wire goes to (+) input, black wire goes to (-) input.

Reversing the polarity of the temperature sensors is NON-destructive.

Temperature sensors have a time constant in air of several minutes, moving air shortens this time constant; contact with a liquid carrying pipe shortens time constant even more.

Long unshielded sensor lines may pick up noise and/or 60Hz hum and cause the relay to chatter on transition—if this happens, first try putting 60-100uF/16v capacitors across the sensor inputs and if this doesn't cure it, change to shielded wire for sensors with shield connected to sensor (-) input.