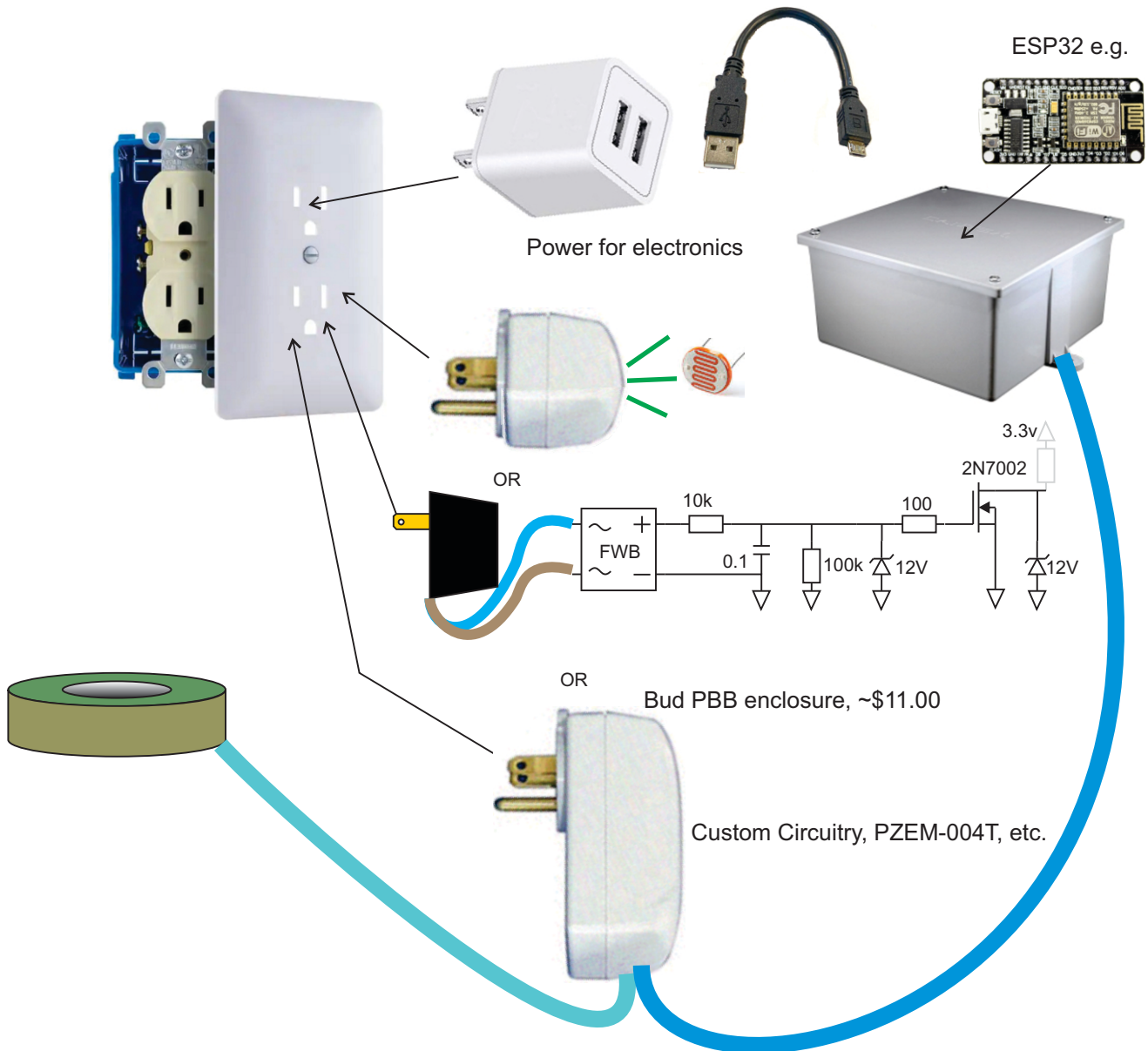
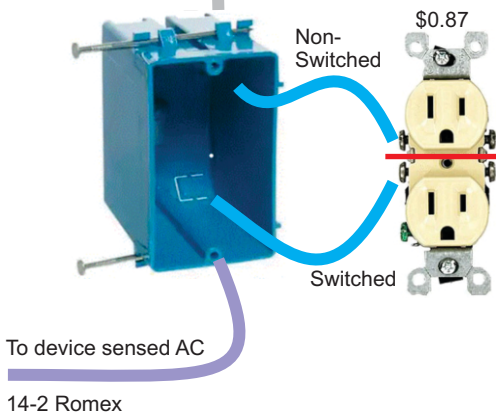


## Some Thoughts on Monitoring AC Line



To un-switched AC power

14-2 Romex



The duplex outlet is prepared by having the connecting tab between the two Line/Hot screw terminals broken away. This lets one half be wired to un-switched AC power, and the other connected to the AC power to be monitored.

The connecting tab for the two neutrals may be removed or left connected, depending on where the two power cables are terminated. I personally think that the neutrals should be isolated except in the case where both AC power cables terminate inside the device to be monitored. That would ensure that both neutrals are always at the same potential even under plug-in misuse. If the always on AC is terminated somewhere NOT inside the device to be measured, I would isolate the two neutrals.

The socket needs special marking to ensure that one socket is known to be switched.