

Re: Flame detection

Source: <http://sci.tech-archive.net/Archive/sci.electronics.design/2006-09/msg01622.html>

- *From:* Peter Amey <peter.amey@xxxxxxxxxxxxxxxx>
 - *Date:* Fri, 08 Sep 2006 12:28:14 +0100
-

John Woodgate wrote:

In message <cc22g2dn3kn98vbnsoepm1l6jfp5oikgqs@xxxxxxx>, dated Fri, 8 Sep 2006, Ross Herbert <rherber1@xxxxxxxxxxxxxxxx> writes

Assuming that your refrigerator does have flame outage detection then adding the appropriate components to provide a LED indicator should be fairly simple although carrying out the modification yourself might be frowned upon

It is positively illegal.

The OP wants only to be able to see if the flame is on without using the inaccessible viewing window. He's told us that there IS a flame-failure device (without realising what it was).

I am grateful for the deluge of responses. John W was first to understand exactly what I am after and he has summarised it nicely above. I am not planning /any/ modification to the fridge, just proposing an add-on, that may not even be bolted to the fridge, that tells me whether a flame is there or not (so I know when to stop pressing the ignitor button!).

The flame is actually blue, there is a jet that controls the gas flow, an air input port and the flame sits on a gauze grid at the end of a J-shaped tube. The whole fridge back is enclosed so I doubt that I will have too much problem with ambient light interfering with the flame as primary light source.

I am now completely convinced that John's photo-transistor is the way to go but would value help with the actual circuit if anyone can spare the time.

Thanks again.

Peter

.