

## Re: Telephone : Checking for "RTS"

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*Source:* <http://sci.tech-archive.net/Archive/sci.electronics.design/2006-04/msg02370.html>

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- *From:* "R. Wieser" <[address@xxxxxxxxxxxxxx](mailto:address@xxxxxxxxxxxxxx)>
  - *Date:* Mon, 17 Apr 2006 10:47:12 +0200
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Ryan Weihl <[nixnam@xxxxxxxxxxxx](mailto:nixnam@xxxxxxxxxxxx)> schreef in berichtniews  
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Hello Ryan,

according to this: [http://oshd.sunsite.dk/projects/caller\\_id/](http://oshd.sunsite.dk/projects/caller_id/) and the included schematic, the dutch telecomm uses what we call a modem with a DAA to detect a loop reversal to get the DTMF signaling of the CID. Uses a Mitel/Marlink DTMF decoder. Quite a bit different from Bellcore. searched for "dutch caller id"

Thanks for the URL. And I did find that one myself too (I did spend quite some time searching for Dutch caller-ID stuff :-)

I'm not at all sure what you mean with "a modem and a DAA", (The only Modem-like bit in the schematic is the max232, and isn't connected to the phone-line at all), but if you mean that the opto-coupler (ring-detector) could also be used for detecting the line-reversal ... Well, maybe that could work.

I've thought about using it before, but I'm not at all sure about it's dependability.

Thanks for the hint/reminder though, I focussed so much on a 100% solution that I forgot this one :-\

Regards,  
Rudy Wieser

P.s.

A few things I have always wondered about when looking at this schematic :

1) What effect do those put into anti-series diodes D1 and D2 have ? Both together will not pass current in *\*any\** way .... As far as I can see he (the designer) mixed up his zener-diode schematic (using an anti-series configuration) with a normal diode schematic (using an anti-parallel

configuration)

2) why did the designer de-couple from the Phone-line with a trafo \*and\* capacitors etc. Why did he not just leave-out those capacitors ? Or even used the simple one-wire (plus ground) input ?