

User's Manual

Busy Tone Detector & Automatic Call Disconnection 8 Ports

Model: 980



The Ringing of Busy Tone Detector front-end systems offers call termination and disconnection for up to two/four Analog CO Line. The advantages of BTDA&CD (Busy Tone Detector & Automatic Call Disconnection) Model: 984 with external 220 VAC power supply are cost-effective and adaptive front-end system for any intelligent PABX, VRS, Call Center or IP Gateway System.

Applications:

Analog Line (CO trunk) front-end Phantom Caller Termination system is used with:

- PABX installations
- PABX sub-systems
- Audio Text Services
- Call Center Queues
- Interactive Voice Response Systems
- Internet Telephony Gateways and etc.

Features and Benefits:

- Independent stand-alone port proceeds for each CO Line Disconnection.
- Worldwide proven high accuracy and fast response with adaptive network busy tone / hang-up tone settings. (Thailand: TOT, TT&T, True, CAT, etc.)
- Fully transparent operation on any standard two-wire (CO Line) telephone line.
- Programmable controller, software upgradable for new busy tone signaling in future.
- Timer system for call disconnection if no signal in CO Line.
- Centronic connector is normally a connector, easy for installation.
- 24 or 48 volts telephone line voltage system compatible (Automatic Voltage Detect).
- Automatic bypass CO Line to CO Trunk when no power electric.
- Low Power Standby.
- Noise Protection circuit design.

Specifications:

- Analog (CO Line) Ports: 8-Port Input and 8-Port Output.
- Automatic Line Disconnection when Busy Tone occurs.
- In case of no signal, the device will be disconnected in 25 – 375 sec. (see special option)
- Use jumper to select signal type of busy tone. Signal type of TOT and TT&T are standard busy tone while True is fast busy tone.
- Centronic connector.
- 2 LEDs indicator per port, Display 4 operation status.
- Power Supply 220 VAC.
- Weight approximately 1.5 kg.

Characteristics:

Current per Port

o Stand By Current	30	mA
o Detect Current	50	mA
o Disconnect Current	60	mA

Time

o Detected Signal Time	2–8	Sec.
o Drive Relay Time	2.5	Sec.
o No Signal Disconnect Time (See below)	25-3,175	Sec.

Power per Port

o Power Stand By	150	mW
o Power Detect	235	mW
o Power Disconnect	275	mW

LED indicators:

- o Display 4 status operations by 2 dual color LEDs.
 - Line ready status displays in **Green** color and **none**.
 - Line in use status displays in **Red** color and **none**.
 - Line busy status displays in **Red** color and **Blink Green** color.
 - Line disconnection status displays in **Red** color and **Red** color 2 sec.

Jumper:

- o For setting Automatic Call Disconnection Timer.
- o For selecting signal type of busy tone. In case of TOT and TT&T are standard busy tone, the switch is OFF. While True is fast busy tone, the switch is ON.

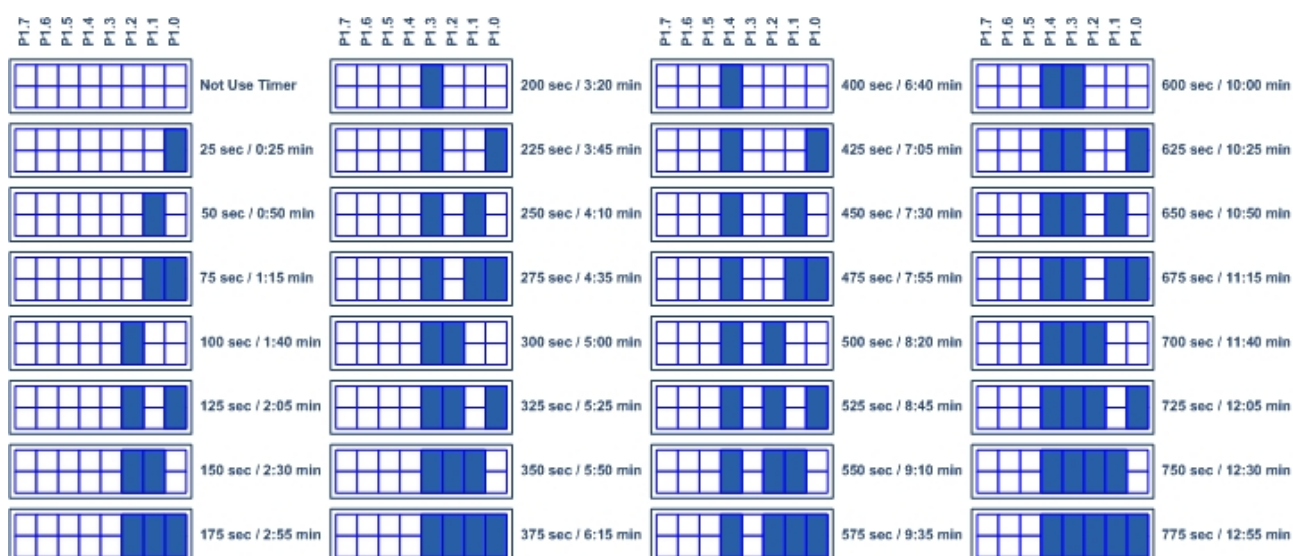
Terminals & Connectors:

- o Line In is Centronic Female Connector type for CO Line input.
- o Line Out is Centronic Female Connector type for other applications (Telephone or PABX).
- o AC Line is Terminal for 220 VAC Power Supply input.

Setting Timer:

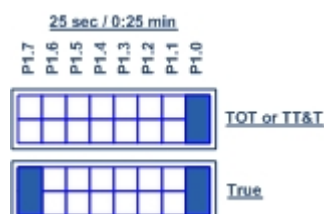
Use Jumper P1.0 – P1.6 for setting call disconnection time when no signal in telephone line. Timer can be set between 25 – 3,175 sec. or maximum 52:55 min. See picture below for example.

Time in Minute	Time in Second	P1.6	P1.5	P1.4	P1.3	P1.2	P1.1	P1.0
-	-	-	-	-	-	-	-	-
0:25	25	-	-	-	-	-	-	X
0:50	50	-	-	-	-	-	X	-
1:15	75	-	-	-	-	-	X	X
1:40	100	-	-	-	-	X	-	-
2:05	125	-	-	-	-	X	-	X
2:30	150	-	-	-	-	X	X	-
2:55	175	-	-	-	-	X	X	X
3:20	200	-	-	-	X	-	-	-
3:45	225	-	-	-	X	-	-	X
4:10	250	-	-	-	X	-	X	-
4:35	275	-	-	-	X	-	X	X
5:00	300	-	-	-	X	X	-	-
5:25	325	-	-	-	X	X	-	X
5:50	350	-	-	-	X	X	X	-
6:15	375	-	-	-	X	X	X	X
6:40	400	-	-	X	-	-	-	-
7:05	425	-	-	X	-	-	-	X
7:30	450	-	-	X	-	-	X	-
7:55	475	-	-	X	-	-	X	X
8:20	500	-	-	X	-	X	-	-
8:45	525	-	-	X	-	X	-	X
9:10	550	-	-	X	-	X	X	-
9:35	575	-	-	X	-	X	X	X
10:00	600	-	-	X	X	-	-	-
10:25	625	-	-	X	X	-	-	X
10:50	650	-	-	X	X	-	X	-
11:15	675	-	-	X	X	-	X	X
11:40	700	-	-	X	X	X	-	-
12:05	725	-	-	X	X	X	-	X
12:30	750	-	-	X	X	X	X	-
12:55	775	-	-	X	X	X	X	X

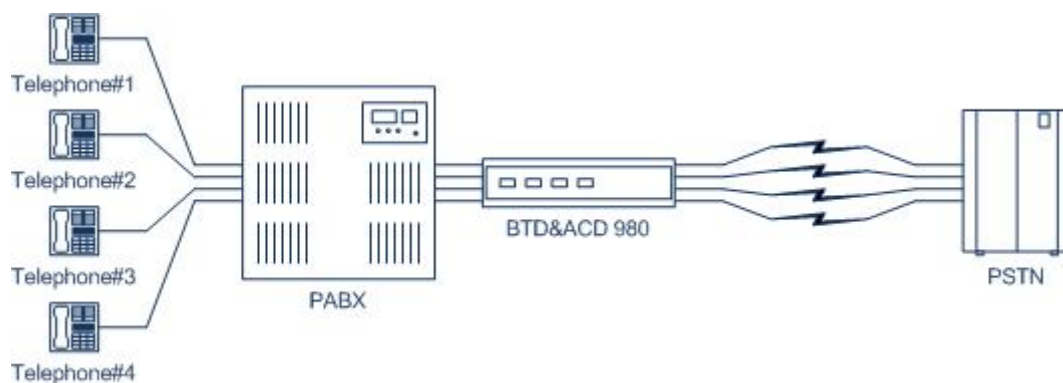


Jumper P1.7 for select type of busy tone. In case of TOT or TT&T, this jumper is not used (open). For True this jumper is used (close).

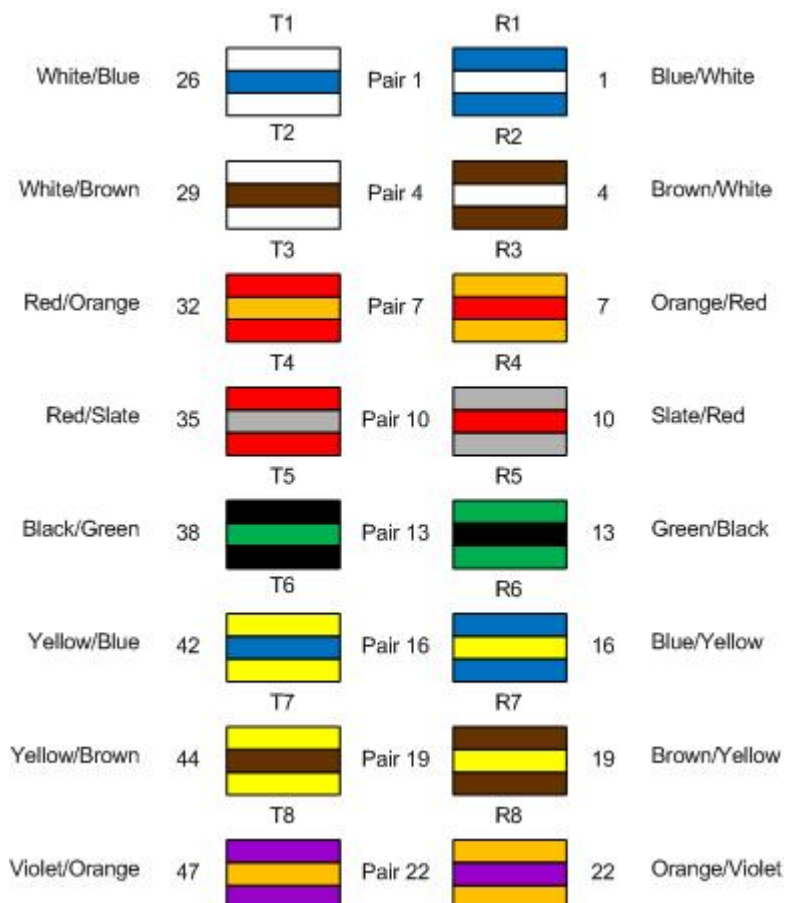
Example: Selecting call disconnection time when no signal in telephone line is 25 sec. see picture below.



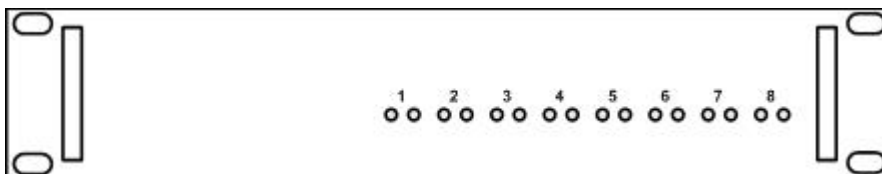
Example Application:



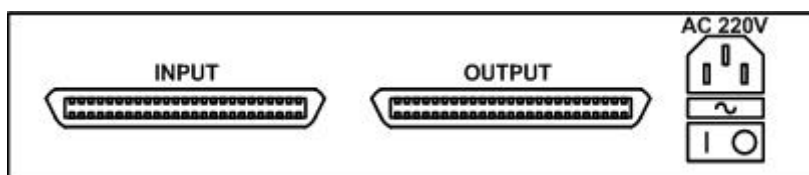
Connector wiring positions:



Front panel:



Back panel:



Dimensions:

