TQ600BC & TQ600M External Bell Connection

Please consult your local electrician for installation.

All wiring must comply with all local and national electrical codes, ordinances, and regulations. Failure to comply could cause serious electrical shock and damage to equipment that will void the warranty.

It is necessary to install a relay in order to control an External Signal Device such as a bell, horn, buzzer or strobe. When a signal is activated the internal contacts close completing the circuit. These internal contacts are “dry” and supply no voltage. Voltage applied to these contacts must not exceed 30 volts. The relay activates the external signal device.

A 24 Volt Switching Relay made by Honeywell (Acroprint p/n 01-0230-000) is available from Acroprint (see below):

Tech Specs

Type	Hydronic
Full Load Amps @120V	10.2
Full Load Amps @240vAC	5.1
Resistive Amps @ 120V	10
Resistive Amps @ 240V	6
Locked Rotor Amps @ 120V	61.2
Locked Rotor Amps @ 240V	30.6
Coil Volts	24 vAC
Switch Action	SPST
Depth (in)	2-3/8
Height (in)	5-1/4
Width (in)	4-1/4
Application	Hydronic Heating

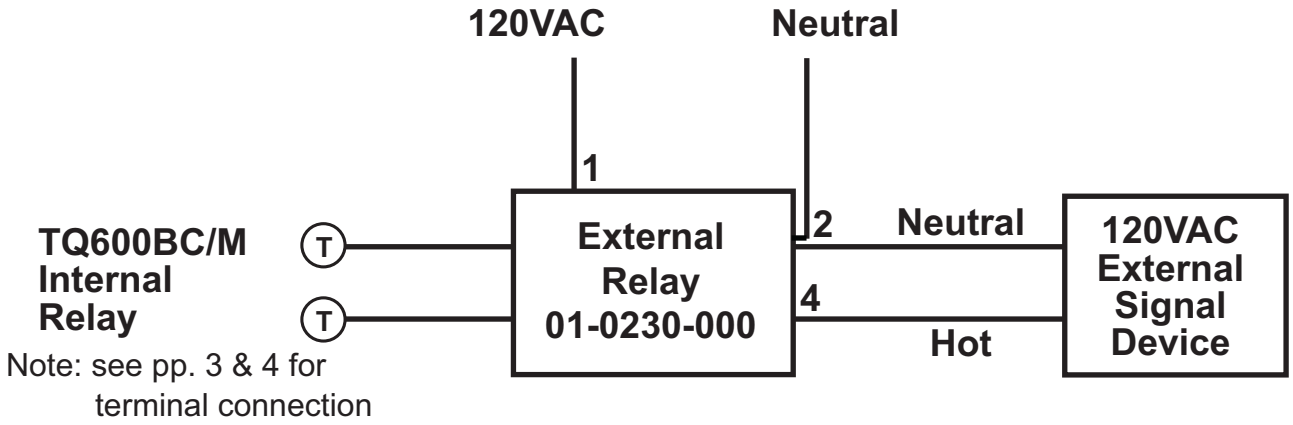
24 Volt Switching Relay

Manufacturer: Honeywell

Mfg. P/N: RA89A1074

1) Mount the Relay vertically on a solid wall or partition as near as possible to the TQ600BC (Barcode) or TQ600M (Mag Stripe). Select a location that is easily accessible for installation and service.

2) Disconnect the TQ600BC/M from the power then connect it to the Relay (Acroprint p/n 01-0230-000) per the diagram below.



Note: see pp. 3 & 4 for terminal connection

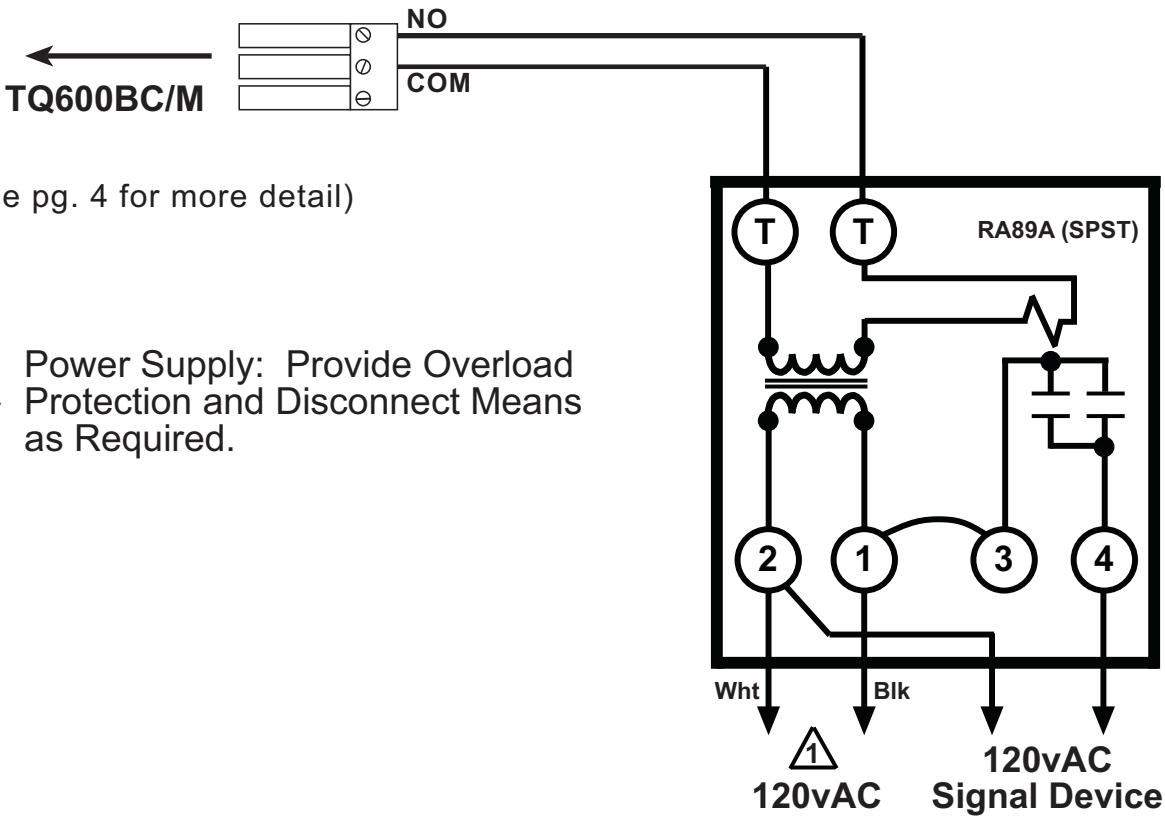
3) Connect the Relay to the External Signal Device.

External Signal Devices Available from Acroprint:

Acroprint P/N	Description	Manufacturer	Manufacturer's Part Number
64-0103-000	Grille Horn	Edwards Signaling	874-N5
64-0104-000	4-1/4" Bell	W.L. Jenkins Co.	1005
64-0105-000	8" Bell	W.L. Jenkins Co.	3005

4) Connect the Relay to a 120VAC power source.

Internal Schematic and Hookup for 01-0230-000 Relay



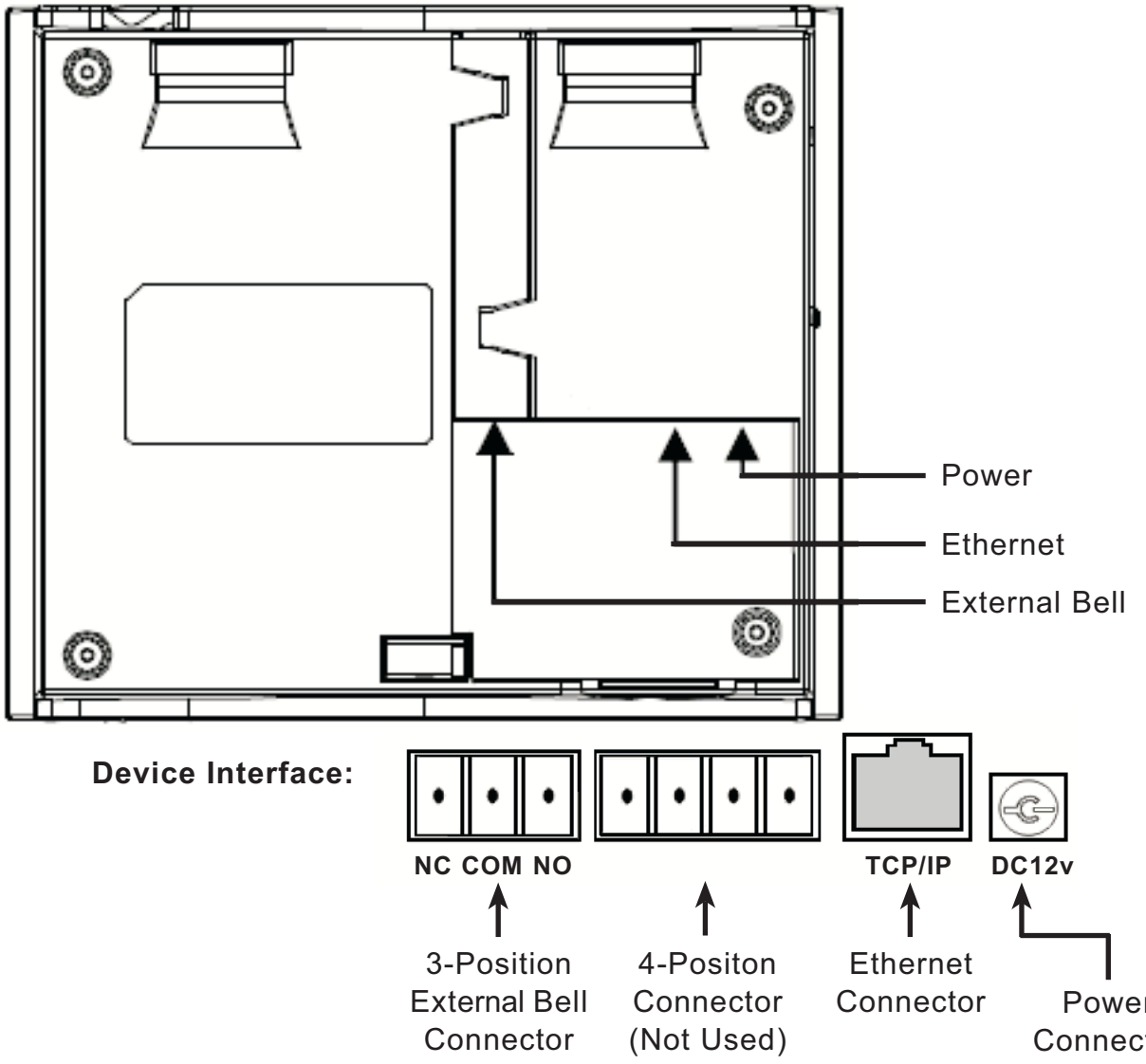
5) Connect the TQ600BC/M to the power supply then plug the power supply into a power outlet.
   Program bell schedules (see pg. 5).

6) Verify that the External Signal Device is working properly. If it doesn't activate check to see if the TQ600BC/M is set to the correct time. If the time is correct check to see that the bell schedule is correct and verify the schedule for AM or PM settings. If the external device still does not activate check all connections and verify that the power outlet is working.

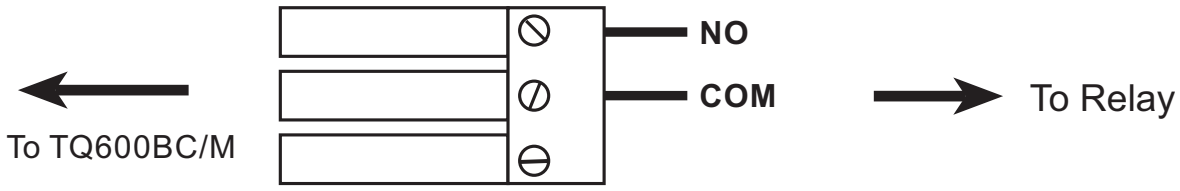
01-0230-000 Relay Connection to TQ600BC/M

A 3-Position Connector is provided with the TQ600BC/M terminals. The following diagram shows the External Bell connection on the back of the terminal:

Back of TQ600BC/M Terminal



3-Position External Bell Plug:



How to Set a Bell Schedule on the TQ600BC/M

Note:

The Internal Bell of the TQ600BC/M is disabled when the External Bell is Activated.

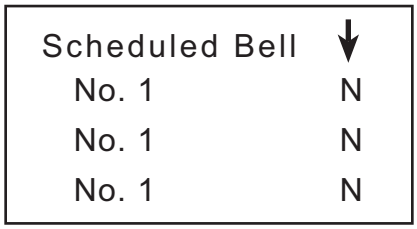
1) Activate the External Bell option on the TQ600BC/M:
   Menu> Options> Power Mng> Ext.Bell: Set to “Y”

2) Set the Bell Delay (the duration of the External Bell):
   Menu> Options> Power Mng> Bell Delay (0 - 999 sec)

3) Set the Bell Schedule:
   Menu> Options> Power Mng> Scheduled Bell
   Note: it make take up to 7 seconds for the Bell Schedule to be displayed.

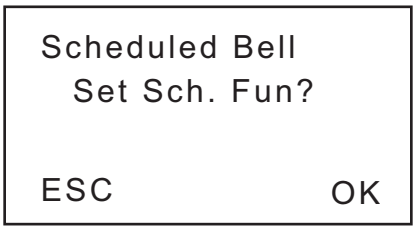
   The following screen will be displayed:

   You can set up to 50 bell events.

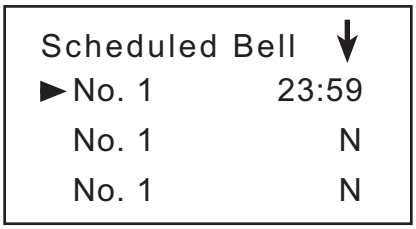


   It is recommended that you write down your complete bell schedule before setting the schedule on the terminal.

   a) Select the Bell# you wish to set and press “Ok”.
      The following screen is displayed:



   b) Press “OK”. The following screen is displayed:



   c) Enter the hour of the first bell (in military time).
      Press either arrow key to set the min of the first bell:
      Press “OK” to set the first bell.

   d) Select the next bell# and enter the schedule. Repeat until all bell schedules have been entered.

   e) Press “ESC” then press “OK” to save all bell schedules.
      Press “ESC” until the terminal menu is exited.