

PRODUCT DESCRIPTION FOR THE

DOOR ALERT/POOL ALARM

Models 289-1, 289-2, 289-3 and 289-4

Type SM Signaling Device

ETL Tested To Be In Compliance With Standard For Safety, UL 2017, and Florida Building Commission Code Requirements, Per ETL Listing Number 3035022

APPLICATION:

The GRI DOOR ALERT/POOL ALARM is designed as an aid to detect unsupervised access to a pool/spa area by a small child. Monitoring all doors and windows with magnetic reed switches the DOOR ALERT/POOL ALARM will sound an alarm should anyone too small to manage the adult pass through feature attempt access to the pool/spa area. For maximum protection all moveable openings should be protected in such a manner by the GRI DOOR ALERT/POOL ALARM.

DESCRIPTION:

The GRI DOOR ALERT/POOL ALARM uses a microprocessor to monitor the CLOSED LOOP magnetic reed switches, shunt/cancel button, battery and power supply voltages, and to provide the timing options. The recessed versions are designed to fit inside a single gang utility box, while the surface mount versions may easily be mounted to the wall of any structure.

The 289-1 and 289-2 versions offer a seven second delay in which an adult may open the protected door, shut it, and then press the shunt/cancel button without the alarm sounding.

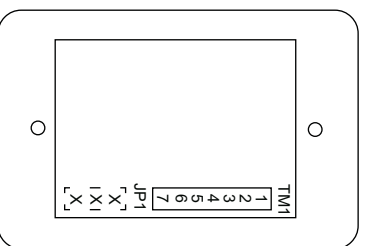
The 289-3 and 289-4 versions alarm instantly if the protected door is open before the shunt/cancel button is pressed.

All versions must be operated with a 12 volt externally supplied DC power source. An onboard 9 volt battery can be used, in which case the battery will perform a backup function should the externally supplied source fail for any reason. The GRI DOOR ALERT/POOL ALARM is designed to maintain a minimum sound pressure level.

MODEL NUMBER AND VERSION

289-1	Recessed Door Alert/Pool Alarm 7 Second Delay
289-2	Surface Mount Door Alert/Pool Alarm 7 Second Delay
289-3	Recessed Door Alert/Pool Alarm Instant On
289-4	Surface Mount Door Alert/Pool Alarm Instant On

Figure 2.
Terminal Connections & Jumpers



TERMINAL TMT1	PIN
External Power (+)	1
Ground	2
Remote Sounder Controller	3
Remote Reset/Delay Switch	4
Door Contact	5
Remote Sounder Power (+)	6
Alarm Signal	7

1-3 Door Contact Connections
JP1 X X1 X2

The jumpers on JP1 are factory preselected. Alteration can effect timing and/or delay function.



It is suggested that some type of surge protection, such as the GRI CS-1 Current Sensor, be used between the power supply and all GRI PoolAlarms using external power.

NOTE: Unit will function at minimum 5VDC at a very limited sounder volume. This power level is considered total battery failure.

SPECIFICATIONS:

Battery Type	Standard 9 Volt
Battery Life	Approximately 2 weeks
External Power Supply	12V DC 500 mA Output
	Applied Voltage must not exceed 15 Volts DC
Low Bat Mode	TV DC
Mounting Height	Ref. Local Code
Sounder Rated Switch	85 dB at 10 Ft. (3.5 M) Closed Loop

WARRANTY: One year against workmanship, material and factory defects.

DISCLAIMER

The G.R.I. Door Alert/Pool Alarm is not a life saving device. Its intent is to serve strictly as a monitoring device on doors and windows to help prevent unattended access to pool and spa areas.

INSTALLATION WIRING DIAGRAM

Single Door with
Screen

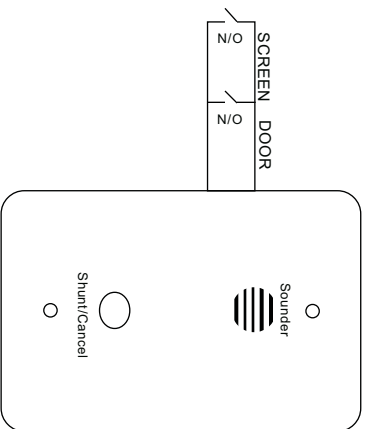


Figure 1. Wiring Diagram

INSTALLATION INSTRUCTIONS

A) Installing the Door Sensor

NOTE: Closed Loop Switch Required.

The GRI DOORALERT/POOL ALARM uses CLOSED LOOP (normally open) magnetic reed switches. Install the magnetic reed switch on the door according to the manufacturer's installation instructions. If there is a screen door, a switch should be installed on it as well. The switches should be connected in parallel as in Figure 1. In this configuration the DOORALERT/POOL ALARM will only activate if both doors are open. Next run the wires from the switch(es) to where the DOOR ALERT/POOL ALARM will be located on the wall.

B) Installing the DOOR ALERT/POOL ALARM

NOTE: The DOOR ALERT/POOL ALARM must be mounted as per local code or regulations.

SURFACE MOUNT VERSION:

Remove the DOORALERT/POOL ALARM from the surface mount case. Knockouts are provided on this case for wire access. Attach the surface mount case directly to the wall or existing fixture, or it may be mounted to cover a single gang electrical box. Attach the wires from door switch to terminal TM1 pins 2 and 5. It does not matter which wire goes in which location. Using an external 12 volt DC supply, run the wires from the power source to the alarm unit and attach the positive voltage to pin 1 and ground to pin 2 of terminal TM1.

If battery backup is desired, connect a standard 9 volt battery. The alarm will beep twice during power up indicating a successful diagnostics test. Lay the battery in the bottom of the case and reassemble the DOOR

ALERT/POOL ALARM with the button on the bottom and the sounder on top. Secure with the two screws provided.

RECESSED VERSION:

The recessed version of the DOORALERT/POOL ALARM is designed to fit in a single gang utility box. Run the wires from the door sensor switch(es) into the utility box. Attach the wires to terminal TM1 pins 2 and 5. It does not matter which wire goes in which location. Using an external 12 volt DC supply, run the wires from the power source to the alarm unit and attach the positive voltage to pin 1 and ground to pin 2 of terminal TM1. If battery back up is desired, install a standard 9 volt battery on the back of the DOORALERT/POOL ALARM. The alarm will beep twice during power up indicating a successful diagnostics test. Finally, insert the DOORALERT/POOL ALARM into the utility box with the button on the bottom and the sounder on top. Secure with the two screws provided.

PERTAINS TO SURFACE MOUNT AND RECESSED:

To maintain maximum sounder volume, a low battery mode will be initiated. Should the voltage drop below 7 volts the low battery mode will be triggered and the unit will sound 2 beeps approximately every 3 seconds for one to two weeks prior to total battery failure. The battery must be replaced at this time and the cause of power failure determined and restored.

When the alarm is sounding, it can only be turned off by pressing the shunt/cancel button. If the door is still open 15 seconds after the button is pressed, the alarm will sound again and continue until the door is closed and the button is pressed.

WIRING SPECIFICATION:

For connection of optional remote equipment and door contact switches a Belden CAT5 CL2 or equivalent cable is recommended. For the connection of the 12 volt power supply to the alarm unit a Belden 18-2 CL2-CMR 300V 60°C or equivalent wire is recommended. In all cases installer should reference current local N.E.C. code, and/or code requirements set forth by local housing authority or code enforcement jurisdiction.

RECOMMENDED SYSTEMS TESTING:

Periodic system testing shall be performed on a weekly basis, and should incorporate operation of each door and window covered by the system, to confirm an alarm sounding at each opening. Installation of on-board battery as redundant power source shall necessitate this testing is performed with primary power source disconnected. In all cases battery should be replaced on a regular basis of every 80 to 90 days.