

Triggering iChime with a Door Switch

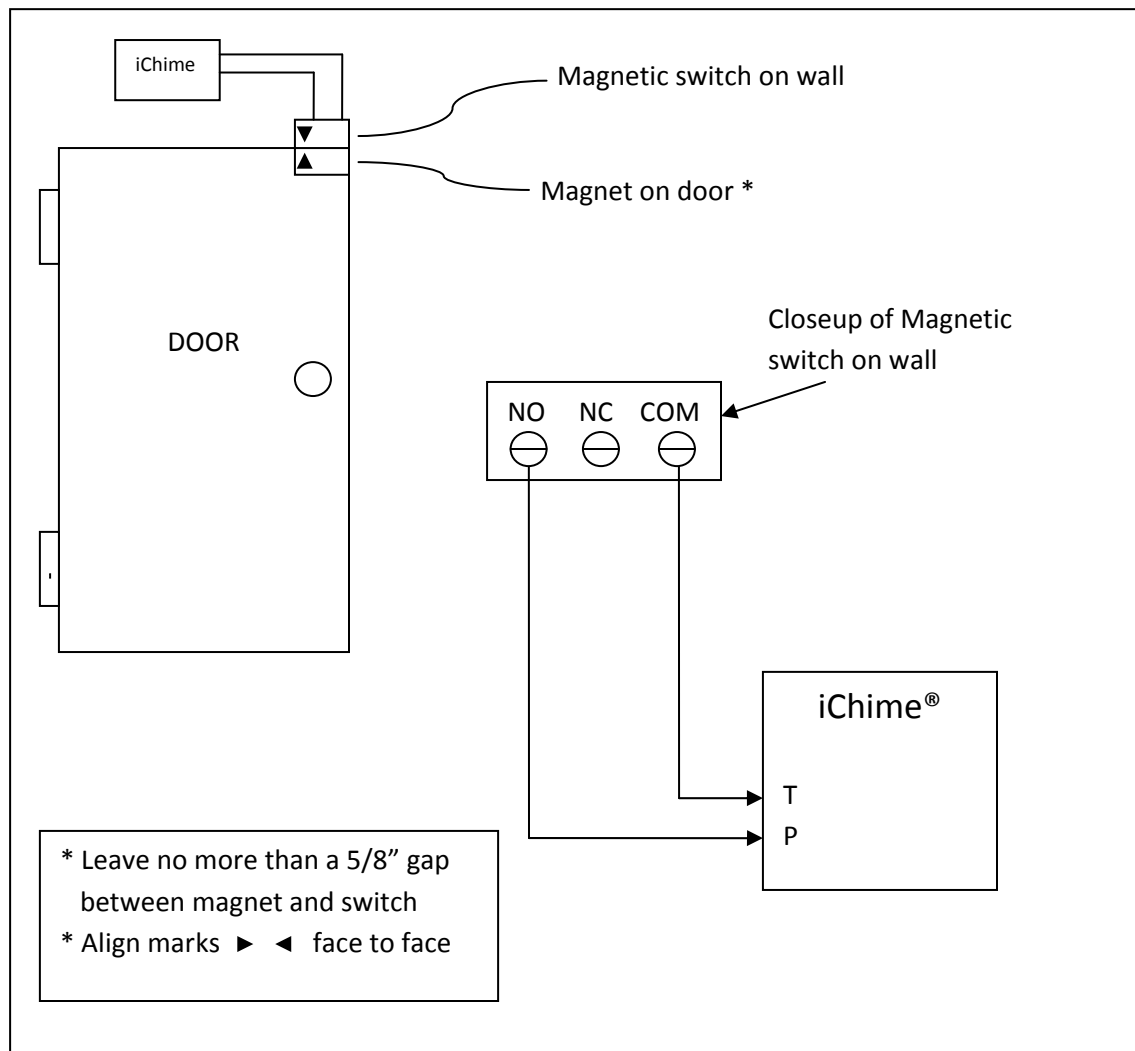
Revision 1.1

Using iChime as an electronic door announcer is easy! The pre-programmed sounds as well as user recorded or downloaded songs can be used to announce a visitor whenever the door opens. All that is required is a magnetic door sensor with a “normally open” contact and some wiring to iChime.

Recommended parts:

Description:	Part Number:	Available from:	Retail Price
Magnetic Reed Switch (comes with magnet)	MSW-38	http://www.ichime.com	\$16.95
iChime Doorbell	CHIME-1	http://www.ichime.com	\$89.95

Connection Diagram:



Operation Description

The magnetic switch is mounted on the wall and wired to iChime. The magnet is mounted on the door.

When the door is closed the NO & COM connections on the Magnetic switch are not connected (they are Normally Open). When someone opens the door the contacts will close, simulating the pressing of a doorbell button. This will trigger iChime and announce your visitor with your chosen sound or music.

If the door is propped open the switch will remain closed. iChime will only trigger again after the door is closed and then opened again. If it is desired to sense a person or visitor just walking past without having a door open, a PIR (Passive InfraRed) sensor can be used. See "Triggering iChime with a Motion Sensor".

Battery Operation of iChime:

iChime can be battery operated and only consumes power when playing audio. Even with many "triggers" per day the batteries will last a very long time. With good alkaline AA batteries, 20 triggers a day lasting 5 seconds each it would take about 1.3 years before the batteries would need replacement. Realistically 5 seconds of audio is quite long. If the audio were 1 second the batteries would last 5 times longer for a duration of over 6 years.

Batteries in iChime are not only convenient they are necessary. iChime can be removed from its mounting bracket and taken to an audio source or connected to a PC to record an audio selection. Battery operation is essential to preview the audio. It is important to note here that once the audio is recorded into the iChime product it is non-volatile. This means that if the batteries do wear out (or are removed and replaced) the recorded audio is not lost.

Installation

The picture to the right shows iChime mounted directly above a door with a short wire connected to the magnetic switch. In this case, the magnet is mounted on the underside of the door frame. In cases where the door is flush with the wall, the magnetic will be mounted on the wall, with its screw terminals on the top.

