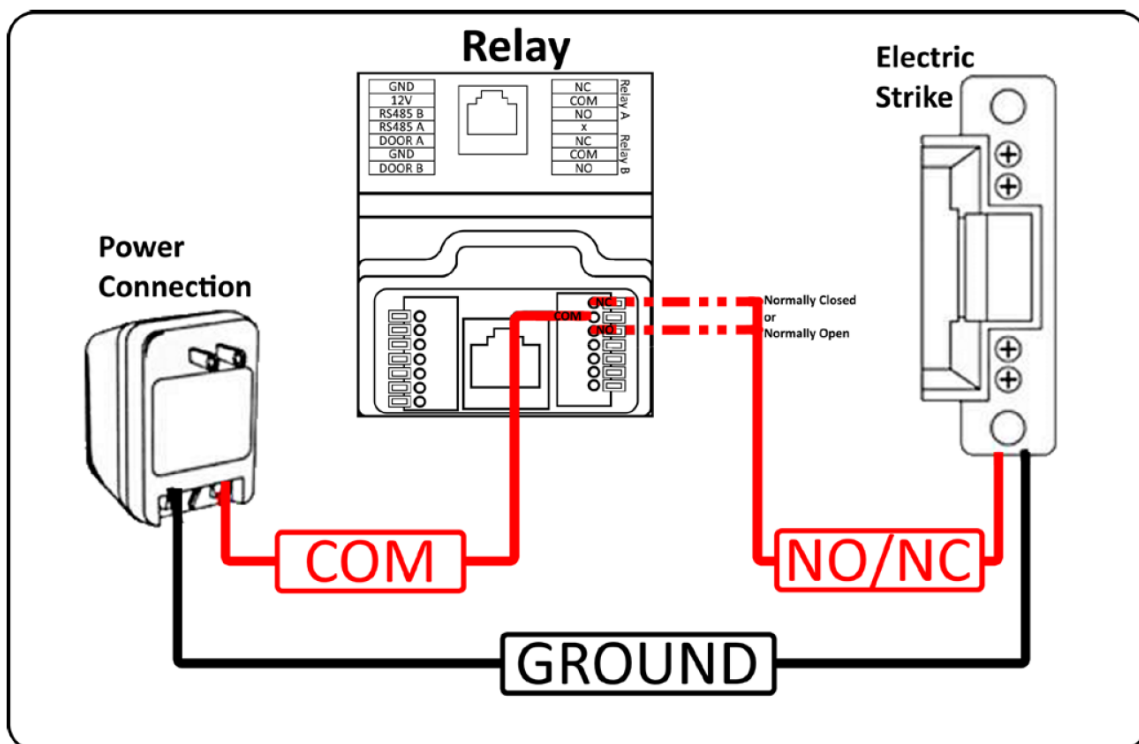


## Akuvox: Doorbell Relay Wiring and Programming

Akuvox integrates circuit protection onto the main board, so we can directly connect Door Strike to Akuvox door phone.

1. When installing a Akuvox door phone at a building without an Access control system, the Akuvox needs to be wired directly to a Door Strike.
2. Since Akuvox door phone's relay terminals **don't have** power output for Door Strike, so the installation requests **external power supplier** for Door Strike.

### Wiring Diagram



**NC – COM** if your Door Strike type is **unlocked when power off** and **locked when power on**.

**NO – COM** if your Door Strike type is **unlocked when power on** and **locked when power off**.

*The above connections can also be replaced by an electromagnetic lock.*

## Programming Relay Settings

- **Model Number : X915S, X916, R29S/C/C-B/C-L, E16**

You can configure the relay switch(es) and DTMF for the door access on the web **Access Control > Relay** interface.

The screenshot shows a web interface titled "Relay" with a table for configuring three relays: RelayA, RelayB, and RelayC. The settings include Relay ID, Trigger Delay, Hold Delay, DTMF Mode, 1-Digit DTMF code, 2-4 Digits DTMF code, Relay Status, and Relay Name.

Relay ID	RelayA	RelayB	RelayC
Trigger Delay(Sec)	0	0	0
Hold Delay(Sec)	5	5	5
DTMF Mode	1 Digit DTMF		
1 Digit DTMF	0	1	2
2~4 Digits DTMF	010	012	013
Relay Status	RelayA: Low	RelayB: Low	RelayC: Low
Relay Name	RelayA	RelayB	RelayC

**Trigger Delay (Sec):** set the relay trigger delay timing (Ranging from 1-10 Sec.) For example, if you set the delay time as "5" Sec. Then the relay will not be triggered until 5 seconds after you press "unlock" tab.

**Hold Delay (Sec):** set the relay hold delay timing (Ranging from 1-10 Sec.) For example, if you set the hold delay time as "5" Sec. Then the relay will be delayed for 5 seconds after the door is unlocked.

**DTMF Mode:** select the number of DTMF digit for the door access control (Ranging from 1-4 digits) For example, you can select 1-digit DTMF code or 2-digit DTMF code, etc., according to your need.

**1-Digit DTMF:** set the 1-digit DTMF code within range from (0-9, \*, and #).

**2~4 Digits DTMF:** set the DTMF code according to the DMTP Option setting. For example, you are required to set the 3-digits DTMF code if DTMF Mode is set as 3-digits.

**Relay Status:** relay status is low by default which means normally closed (NC) If the relay status is high, then it is in Normally Open status (NO).

**Relay Name:** name the relay switch according to your need. For example, you can name the relay switch according to where the relay switch is located for convenience.

⚠ *Select the correct Relay (A,B or C) which you've use for door strike.*

⚠ *X916 have four relays (A,B,C and D), E16 have one relay. All other parameters are same.*

- **Model Number : R20A, E12S/W, R20K, R28A, R27A R20B, R26C, R26P, E11R, E21V/A**

You can configure the relay switch(es) and DTMF for the door access on the web **Intercom > Relay** interface.

The screenshot shows the 'Relay' configuration page. It has a title bar 'Relay' and a sub-header 'Relay'. Below this, there are two columns of settings for 'RelayA' and 'RelayB'.

Setting	RelayA	RelayB
Relay ID	RelayA	RelayB
Type	Default state	Default state
Mode	Monostable	Monostable
Trigger Delay(Sec)	0	0
Hold Delay(Sec)	3	3
DTMF Mode	1 Digit DTMF	
1 Digit DTMF	0	1
2~4 Digits DTMF	010	012
Relay Status	RelayA: Low	RelayB: Low
Relay Name	RelayA	RelayB

**Type:** if Default state is selected, the Relay Status shows Low which means the door is closed, the Relay Status shows High which means the door is opened. If Invert State is selected, the Relay Status shows High which means the door is closed, and Low means the door is opened.

**Mode:** there are two modes Monostable and Bistable. If Monostable is selected, the relay status will be automatically reset within the relay delay time after the relay is triggered. If Bistable is selected, relay status will be reset after the relay is triggered again.

**Trigger Delay (Sec):** set the relay trigger delay timing (Ranging from 1-10 Sec.) For example, if you set the delay time as "5" sec. then the relay will not be triggered until 5 seconds after you press "unlock" tab.

**Hold Delay (Sec):** set the relay hold delay timing (Ranging from 1-10 Sec.) For example, if you set the hold delay time as "5" Sec. Then the relay will resume the initial state after maintaining the triggered state for 5s.


**DTMF Mode:** select the number of DTMF digits for the door access control (Ranging from 1-4 digits ) For example, you can select 1 digit DTMF code or 2-digit DTMF code, etc., according to your need.

**1 Digit DTMF:** set the 1-digit DTMF code within range from (0-9 and \*,#) if the DTMF Option is set as "1-digit".

**2~4 Digits DTMF:** set the DTMF code according to the DTMF Option setting. For example, you are required to set the 3-digits DTMF code if DTMF Option is set as 3-digits.

**Relay Status:** relay status is low by default which means normally closed(NC) If the relay status is high, then it is in Normally Open status(NO).

**Relay Name:** name the relay switch according to your need. For example, you can name the relay switch according to where the relay switch is located for convenience.

 *Select the correct Relay (A,B or C) which you've use for door strike.*

Click this button for more resources



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