

APPLICATION NOTE

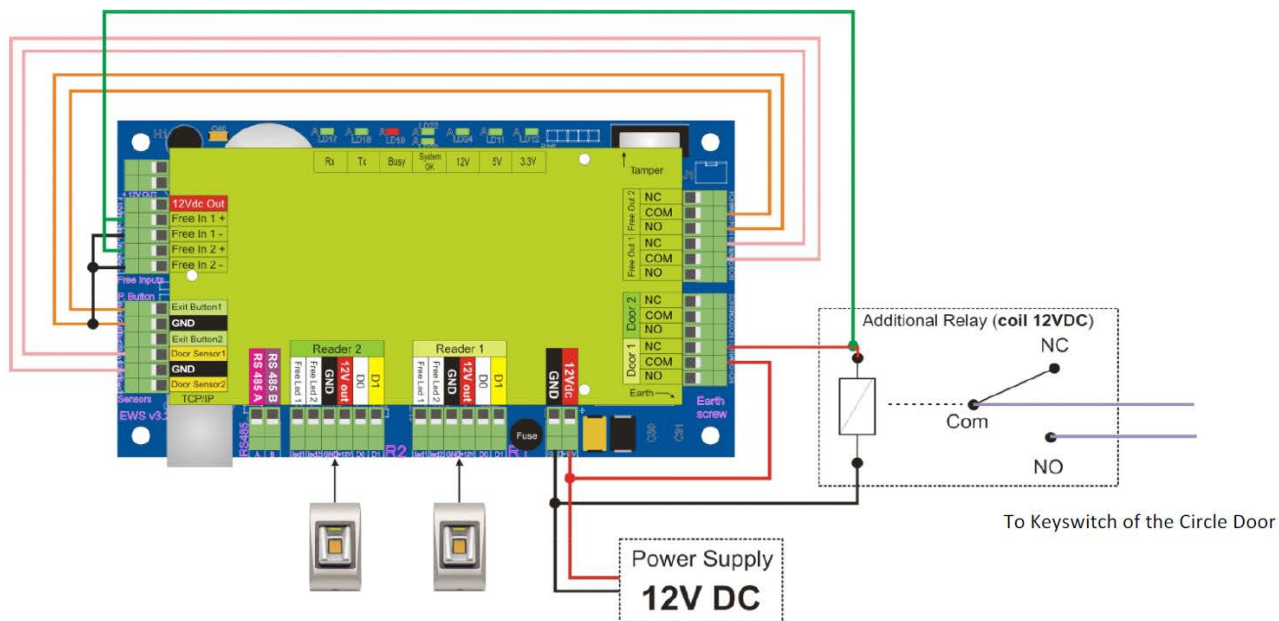
ONLine Access

This application note explains how to connect EWS controller for Door with Hold Open facility. The Door should be set/unset to Free Access on each card (finger) and should reset after staying open too long.

A020

The aim is to put the Door in Hold Open Position to allow large group of visitors through. The door can be put to Hold Open (Free Egress) Position only by authorized(enrolled) persons. To get into the free egress mode the door requires a constant contact. Getting into free egress mode or out of it, should be made by presenting a finger on any of the 2 Biometry Readers. Getting out of the Egress mode (Door Left Open too Long), will be done automatically after certain time which can be adjusted from 1 up to 255 minutes.

1. WIRING



- Provide additional 12VDC relay
- Connect directly the Free Output1 NC Contact to Door Sensor1
- Connect directly the Free Output2 NO Contact to Push Button1
- Connect NC of Door 1 to both Free Input1+ and Free Input2+
- Connect Free Input1- and Free Input2- to GND
- Connect one end of the coil of the additional relay to NC of Door1.
- Connect the other end to GND.
- Connect +12VDC to COM of Door1.

2. SETTINGS IN THE PROS

Door1 Settings:

- Put Door1 in Toggle Mode ("0" for toggle Mode)
- Put "Door Open too Long" Alarm to 30min (can be adjusted from 1 up to 255 min)
- Select "Door Sensor Type" as NO

Portals\test keypad\10-06-01-009\Door1

Basic Auxiliaries Time zones

Door enabled ☒ Enabled by Time zones ☐

Name Door1

Lock release time 0 (1-255sec, 0=Toggle mode)

Door left open allowed time (Alarm 1) 15 (1-255sec, 0=disable)

Door opened too long time (Alarm 2) 30 (1-255min, 0=disable)

Enable door sensor ☒

Door sensor type (state at closed door) NC ☐ NO ☒

Push button type NC ☐ NO ☒

Push button enabled ☒ Enabled by Time zones ☐

Save & Exit

- Set the alarm 2 to activate the Free Output2

Portals\test keypad\10-06-01-009\Door1

Basic Auxiliaries Time zones

When door is legally open activate ☐ 1 ☐ 2

When door is forced open activate ☐ 1 ☐ 2

When door is left open activate (Alarm 1) ☐ 1 ☐ 2

When door is open long activate (Alarm 2) ☐ 1 ☒ 2

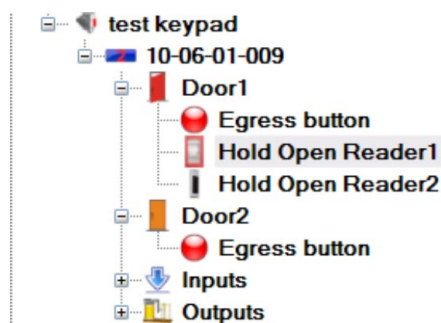
When Push button pressed activate ☐ 1 ☐ 2

Disable door by input ☐ 1 ☐ 2

Save & Exit

Reader Settings:

- Both Readers should be set to open Door 1



Portals\test keypad\10-06-01-009\Door1\Hold Open Reader2

Basic Free Access Time Zones Biometric

Name Hold Open Reader2

Type Proximity

Door Door1

Wiegand type Wiegand26

Enable access by time zones ☒

Bypass Antipassback ☐

Exit from Outside

Entry to Inside

Antipassback reset time 00:00

Free access 24/7 ☐

If 0 illegal attempt, disable for 0 minutes

Save & Exit

Portals/test keypad\10-06-01-009\Door1\Hold Open Reader1

Basic Free Access Time Zones Biometric

Name: Hold Open Reader1

Type: BiInSWProx

Door: Door1

Wiegand type: Wiegand26

Enable access by time zones: ☐

Bypass Antipassback: ☐

Exit from: Inside

Entry to: Outside

Antipassback reset time: 00:00

Free access 24/7: ☐

If 0 illegal attempt disable for 0 minutes

Save & Exit

Free Input1 settings:

- Enable it and select as NO Type
- In Auxiliaries Tab, set the Free Input1 to activate Free Output1

Portals/test keypad\10-06-01-009\Inputs\Free Input1

Basic Enabled at Time zones Auxiliaries

Name: Free input1

Type: NO

Enable: ☒ Enabled by Time zones: ☐

Fire alarm: ☐

Save & Exit

Portals/test keypad\10-06-01-009\Inputs\Free input1

Basic Enabled at Time zones Auxiliaries

Activate output

Outputs: ☒ 1 ☐ 2

Open doors

Doors: ☐ 1 ☐ 2

Save & Exit

Free Input2 settings:

- Enable it and select as NC Type
- In Auxiliaries Tab, set the Free Input2 to activate Free Output1

Portals\test keypad\10-06-01-009\Inputs\Free input2

Basic Enabled at Time zones Auxillaries

Name: Free input2

Type: NC

Enable: ☒ Enabled by Time zones: ☐

Fire alarm: ☐

Save & Exit

Portals\test keypad\10-06-01-009\Inputs\Free input2

Basic Enabled at Time zones Auxillaries

Activate output

Outputs: ☒ 1 ☐ 2

Open doors

Doors: ☐ 1 ☐ 2

Save & Exit

Free Output1 settings:

- Enable it and put it in toggle mode (0)

Portals\test keypad\10-06-01-009\Outputs\Free output1

Basic Activated at Time zones Auxillaries

Name: Free output1

ON time (0=toggle, 1-255 sec pulse): 0

Enable: ☒

Save & Exit

Free Output2 settings:

- Enable it and leave it in pulse mode

Portals\test keypad\10-06-01-009\Outputs\Free output2

Basic Activated at Time zones Auxillaries

Name: Free output2

ON time (0=toggle, 1-255 sec pulse): 1

Enable: ☒

Save & Exit

Explanation:

- When valid finger will be accepted on the Biometry reader, Door1 Relay will be activated. In same time Free Input will receive signal. The free Input will trigger the Free output1, and Free Output1 will give information to the Door sensor1 if the door is open or not. (in this case the Free output1 acts as a door sensor)
- If the Door is left open more than 30 min, Alarm 2 will be activated which will trigger the Free Output2. The Free output 2 is directly connected to PB1 and it will close the door.

The explanation can be seen in the event window:

- On "Hold Open Reader1" access was granted to Tose Swipe
- The Door is Open
- On "Hold Open Reader2" access was granted to Card 18
- The door is closed
- On "Hold Open Reader1" access was granted to Tose swipe
- The Door is Open and left open...Alarm1 passes by.... Alarm2 comes
- The Door is closed after the Alarm2, which can be adjusted from 1 to 255 min

Time	Portal	Controller	Reader	Door	Event	User	Key
4/5/2012 12:34:24 PM	test keypad	10-06-01-009			Fr Out OFF-Free output2		
4/5/2012 12:34:24 PM	test keypad	10-06-01-009		Door1	Door Closed		
4/5/2012 12:34:24 PM	test keypad	10-06-01-009			Fr Out ON-Free output1		
4/5/2012 12:34:24 PM	test keypad	10-06-01-009			Free in ON-Free input1		
4/5/2012 12:34:24 PM	test keypad	10-06-01-009		Door1	PB on		
4/5/2012 12:34:24 PM	test keypad	10-06-01-009			Fr Out ON-Free output2		
4/5/2012 12:34:24 PM	test keypad	10-06-01-009		Door1	Door open too long (alarm 2)		
4/5/2012 12:33:39 PM	test keypad	10-06-01-009		Door1	Door left open (alarm 1)		
4/5/2012 12:33:23 PM	test keypad	10-06-01-009		Door1	Door open		
4/5/2012 12:33:22 PM	test keypad	10-06-01-009			Fr Out OFF-Free output1		
4/5/2012 12:33:22 PM	test keypad	10-06-01-009			Free in ON-Free input2		
4/5/2012 12:33:22 PM	test keypad	10-06-01-009	Hold Open Reader1	Door1	ACCESS GRANTED	Tose swipe	5348961
4/5/2012 12:33:14 PM	test keypad	10-06-01-009		Door1	Door Closed		
4/5/2012 12:33:13 PM	test keypad	10-06-01-009			Fr Out ON-Free output1		
4/5/2012 12:33:13 PM	test keypad	10-06-01-009			Free in ON-Free input1		
4/5/2012 12:33:13 PM	test keypad	10-06-01-009	Hold Open Reader2	Door1	ACCESS GRANTED	Card 18	6386800
4/5/2012 12:33:08 PM	test keypad	10-06-01-009		Door1	Door open		
4/5/2012 12:33:08 PM	test keypad	10-06-01-009			Fr Out OFF-Free output1		
4/5/2012 12:33:08 PM	test keypad	10-06-01-009			Free in ON-Free input2		
4/5/2012 12:33:08 PM	test keypad	10-06-01-009	Hold Open Reader1	Door1	ACCESS GRANTED	Tose swipe	5348961