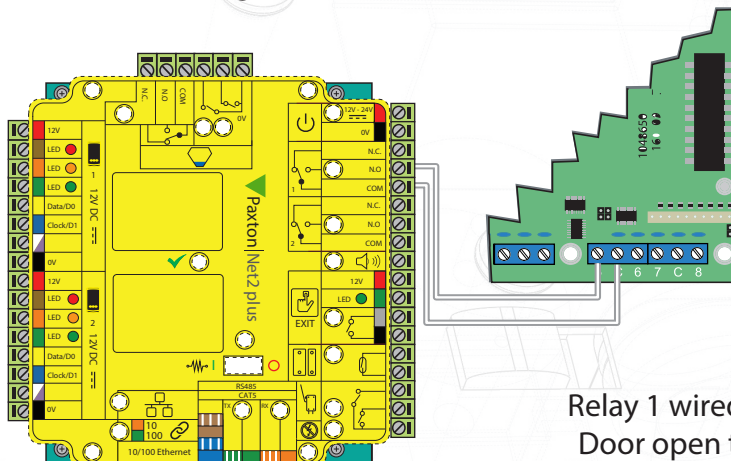# Integrating Net2 with Turnstiles and Barriers

Providing the initiating signal

For a gate system to be compatible with Net2, you must be able to initiate the opening sequence by making or breaking a loop across the gate controller input terminals. All the other gate functions, (e.g. opening time, relocking , safety overrides, etc.) must all be the responsibility of the gate control.

In most barriers or turnstile controllers, this trigger signal is described as a Momentary Dry Contact. A short duration time (1 second) is specified to allow the gate controller to then complete its operation free of other inputs.

Relay 1 can provide this type of input but cannot provide any other controlling influence.

A standard turnstile used as an In gate will either have free exit or a second turnstile as the Out gate.

Gate controller
Relay 1 wired in a 'close to activate' circuit
Door open time on ACU set to 1 second

Some gate controllers will hold the barrier open if the loop is maintained (e.g. during working hours). The ACU can be programmed in its 'Unlock the door during' setting to hold Relay 1 transferred.

Bi-directional turnstiles

Standard turnstiles have limitations when implementing strict anti-passback control. They must control the access permission and also the direction of travel.
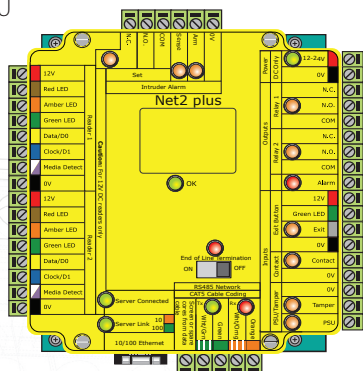
A bi-directional turnstile is basically an In gate and an Out gate in one mechanism.

Bi-direction turnstiles are normally specified where space does not allow for two standard turnstiles or would be a waste with the majority of the traffic in one direction only at certain times of the day.
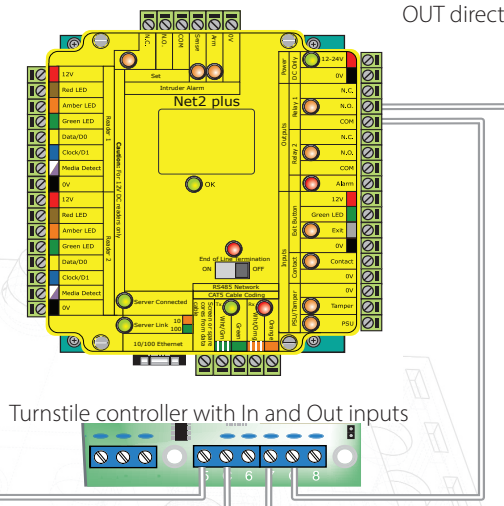
The control system for a bi-directional turnstile will require independent control signals for the In and Out direction. This therefore requires TWO ACU's to provide the control required.

NOTE: One ACU cannot provide the required independent control to use Relay 1 & 2.
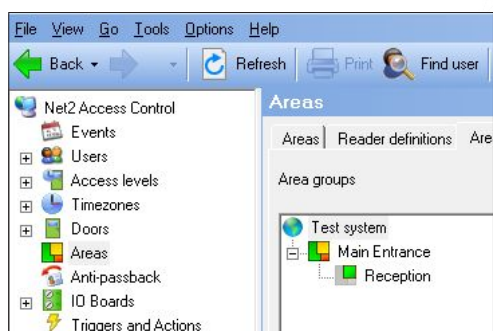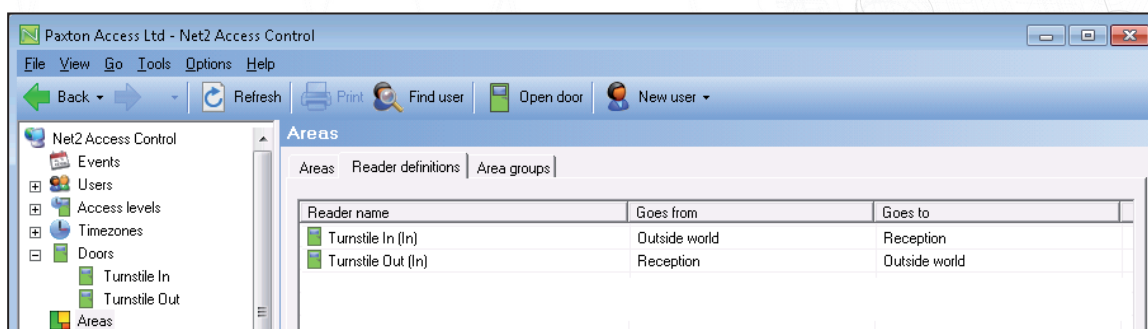
1

IN direction ACU

OUT direction ACU

Turnstile controller with In and Out inputs

Anti-passback configuration

The two ACU's need to be linked as an Area Group. Both are using the Reader 1 (In) port and so the direction (Goes from - Goes to) needs be correct in the definition screen.

An Area Group (Main Entrance) has been set up that contains the Reception area. The anti-passback can now be configured as required.