

U200 and U201 expansion for 2nd access

PRESENTATION :

The U200 control board and its U201 expansion are adapted for pneumatic automatic retractable bollards. They are built in an IP54 index plastic case. The U200 card is equipped with a 100VA max. transformer. The U200 board supplies power for the U201 card. The U200 board can control one access programmed as:

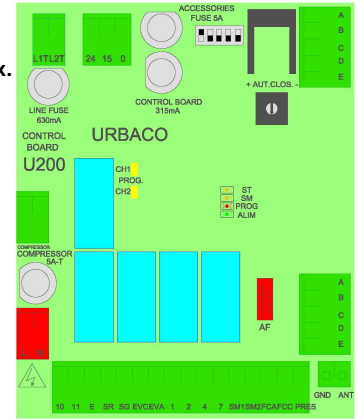
- Controlled Entrance and/or Controlled Exit
- Controlled Entrance and/or Free Exit

In the very same way, the U201 expansion card can manage a second access.

The U200 board has operation programming switches, as well as a trimmer to set time needed before the bollard automatically rises back; it also works as surveillance device to check that the compressor is in perfect working order.

230 VAC power is supplied between poles N and L on the connection rack. It is protected by a temporized 5A fuse. Connection of safety components –such as vehicle detectors and/or photo-electric cells– is possible. An additional 24VAC 40W max. power supply is available. Different control devices with dry contact may be connected to the U200.

The U200 has its own (AF43S type) radio receiver card connector.



SPECIFICATIONS AND OPERATIONAL LIMITATIONS OF THE U200 CONTROL BOARD:

Main power supply: 230Vac / 100W maximum.

Power supply for accessories: 24Vac / 40W maximum.

Presence securities able to force re-opening of access when closing in progress (thanks to SM1 and SM2 connections).

Upper and lower limit switches to indicate bollard status: upward or retracted.

Traffic lights to indicate bollard position (red / amber or red / green).

Control by a command device with or without vehicle presence over electro-magnetic detection loops.

Not adapted for a counter-solenoid. Negative security is therefore not compatible with the U200 and /or the U201 expansion card. (Standard) mono-stable solenoid valve.

Maximum number of bollards controlled by the U200 and/or with U201 card: 1 to 5 automatic retractable bollards depending on compressor capacity.

With trimmer adjustable, the control board ensures that the bollard will rise again after temporization.

Compressor surveillance in active for 3 minutes in case of a malfunction within the pneumatic circuit.

Connection of any other command device, such as keypad, key contactor, etc, is possible (between connectors 2 and 7).

Traffic lights showing bollard positions are only active if the lower limit switched in connected. Otherwise, the amber (or green) light could not work.

The thermostated heater for retractable bollards cannot be directly supervised by the U200 and/or the U201.

SPECIFICATIONS AND OPERATIONAL LIMITATIONS OF THE U201:

Power supply for the U201 directly via the U200 board.

Connection by ribbon cable directly on U200 board.

Access management similar to the U200's.

OPERATION LED's:

The U200 control board shows 4 LED's:

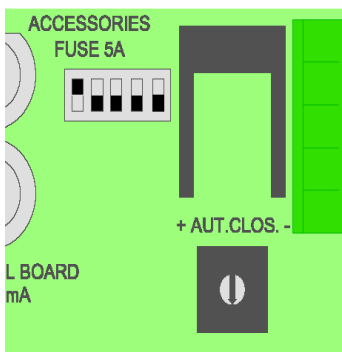
ST: indicates that emergency stop is activated.

SM: indicates that the security continuity is open.

PROG: indicates the programming of a receiver.

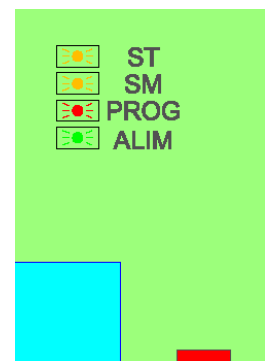
ALIM: indicates that control panel (power) is on.

CONFIGURATION



Switches:

- SW1: ON – Automatic closing activated.
OFF – Automatic closing deactivated.
 - SW2: ON – Simple opening activated.
OFF – Simple opening deactivated.
 - SW3: ON – Pre-warning time: 3 seconds
OFF – Pre-warning time deactivated.
 - SW4: ON – Bi-stable solenoid valve (not used)
OFF – Mono-stable solenoid valve.
 - SW5: ON – Function «Presence» activated (Security presence detection)
OFF – Function «Presence» deactivated.
- Trimmer: Setting time period before automatic rise.



CONNECTIONS



- L ——— 230V (a.c.) Power supply
- N ——— 230V (a.c.) Power supply
- Compressor ——— Compressor 230V (a.c.) power supply outlet
- 10 ——— Accessories 24V a.c. 40W supply outlet
- 11 ——— Accessories 24V a.c. 40W supply outlet
- 10 ——— Connection of blinker 24V a.c. (in motion)
- E ——— Connection of blinker 24V a.c. (in motion)
- 10 ——— Connection red traffic light Bollard position 24V a.c.
- SR ——— Connection red traffic light Bollard position 24V a.c.
- 10 ——— Connection amber traffic light Bollard position 24V a.c. To be used only if the bollard has a lower limit switch.
- SG ——— Connection amber traffic light Bollard position 24V a.c. To be used only if the bollard has a lower limit switch.
- 10 ——— Connection of mono-stable solenoid valve or bi-stable solenoid valve (closing). 24V a.c.
- EVC ——— Connection of mono-stable solenoid valve or bi-stable solenoid valve (closing). 24V a.c.
- 10 ——— Connection bi-stable solenoid valve (opening) 24V a.c.
- EVA ——— Connection bi-stable solenoid valve (opening) 24V a.c.
- 1 ——— Contact bollard - descent in progress
- 2 ——— Contact bollard - descent in progress
- 2 ——— Push button – Access closed – Normally open
- 4 ——— Push button – Access closed – Normally open
- 2 ——— Push button – Access open – Normally open
- 7 ——— Push button – Access open – Normally open
- SM1 ——— Security contact to re-open access when closing is in progress – Normally closed.
- SM2 ——— Security contact to re-open access when closing is in progress – Normally closed.
- 2 ——— Connection flower limit switch (opening)
- FCA ——— Connection flower limit switch (opening)
- 2 ——— Connection upper limit switch (closing)
- FCC ——— Connection upper limit switch (closing)
- 2 ——— Connection compressor working – Normally open.
- PRES ——— Connection compressor working – Normally open.
- ANT ——— Connection Antenna
- GND ——— Connection Antenna
- A ——— Connector for U201 panel expansion
- B ——— Connector for U201 panel expansion
- C ——— Connector for U201 panel expansion
- D ——— Connector for U201 panel expansion
- E ——— Connector for U201 panel expansion

STANDARD CONNECTIONS:

(In case there are no security loops, strap between SM1 and SM2)

