Installation manual

Access control system TL 1000

tousek

GATE AUTOMATION

Index

Key list (guideline)

no.	block 1 colour: _____ name	block 2 colour: _____ name	block 3 colour: _____ name	block 4 colour: _____ name
001				
002				
003				
004				
005				
006				
007				
008				
009				
010				
011				
012				
013				
014				
015				
016				
017				
018				
019				
020				
021				
022				
023				
024				
025				
026				
027				

Access control TL 1000, TL 1000/T

Characteristics

- access control with microprocessor
- non-contact access control with transponder keys (four colours)
- 1000 different keys programmable
- direct connection of door opener
- permanent data saving, even after/during power failure
- very safe: evaluation device in the interior
- simple installation, programming and use

· CE

General

The TL 1000 (TL 1000/T) is a microprocessor access control which can be used with gates and doors in the private and industrial field with more security than with a key switch. .

The installation of the reading device is made outside. Optionally a reading device can also be mounted inside. The evaluation deviec is mounted in the protected inside area so that manipulations which lead to an unauthorised opening can be avoided.

The access is effected by transponder keys which have to be hold near the reading device. Up to 1000 different keys can be stored. The data is also permanently stored during power failure.

Technical data

	TL 1000	TL 1000/T
Power supply	230 V~ / 50-60 Hz	230 V~ / 50-60 Hz
Relay output	potential free, 10A	12Va.c., max. 7VA
Connections	1,5mm^2 max.	1,5mm^2 max.
Environmental temperature	-20°C to +60°C	-20°C to +60°C
Safety class of reading device	IP68	IP68
Dimension reading device (BXHXT)	75 x 75 x 13mm	75 x 75 x 13mm
Dimension evaluating device (BXHXT)	140 x 130 x 50mm	140 x 130 x 50mm

The TL-1000 consists of an evaluation and reading device. Both devices are being connected with a simple two core cable/wire without special plug.

Installation of the reading device

- Remove the frame from the reading device by moving slightly the snap support on the right and left side of the backside to the edge (see picture on the right).
- On the forefront of the reading device you will find two drillings (D = 4 mm). With the help of the drills you may mount the reading device inside or outside on the desired wall spot.
- Attach the cover back on.
- Connect the reading device with the evaluation device through the twocore wire (up to 5 m long) (after installation). The polarity has not to be considered.

➔ Important

The reading unit should not be installed directly on metal. Please use our distance housing which can be ordered optionaly.

Installation of the evaluation device

- Install the evaluation device in the inside area.
- Insert screw driver in slot on housing cover, lever it upwards and open cover.
- Remove the control board (only plugged).
- Install the provided PG- fittings into the housing and plug the board back on. Make sure that the board is snapping correctly.
- Drill holes for the mounting bracket and attach it to the wall. Then slide the plastic housing onto the mounting bracket (from up to bottom).
- Go through the connection works by keeping in mind the safety notes *(see connection)*.

➔ Important

note that the sealing nipple and wire screw connections should be fitted tightly. Otherwise the device protection is not guaranteed.

Warning notes

- **Before taking off the cover, the main switch must be turned off!**
- **If the control is power supplied, its inner part is under tension.**
- **In order to avoid electrical strokes, the safety regulations have to be kept.**
- **The device may only be connected by trained professionals.**

- **The product is not suitable for installation in explosion-hazardous areas.**
- **An all-pole disconnecting mains switch with a contact opening gap of min. 3 mm has to be foreseen. The gate facility has to be secured according to the valid safety regulations!**
- **IMPORTANT: The control lines (buttons, radio, photocells, etc.) have to be laid separately from the 230V lines (supply line, motors, signal lamp).**
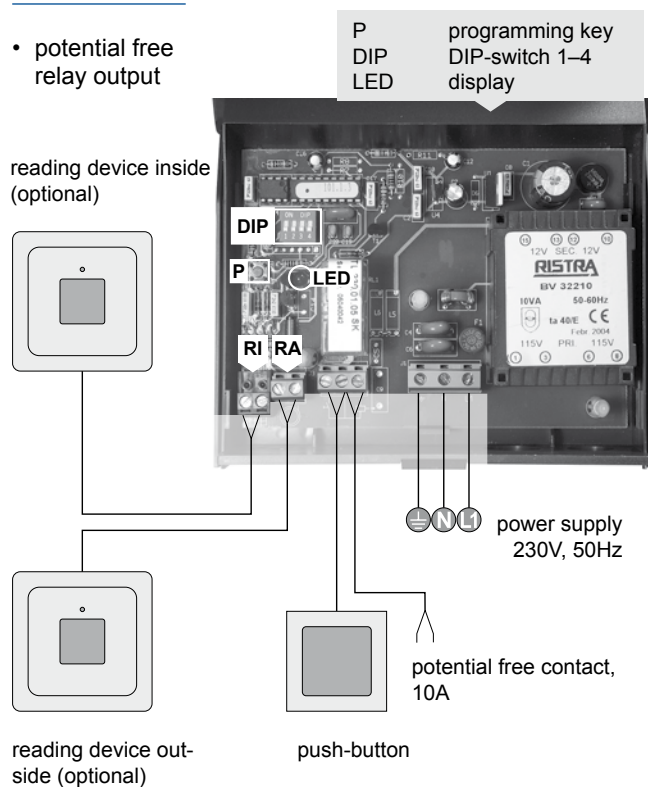
- Guide the wire of the reading device through the left PG-input (sealing nipple).

  NOTE: additionally to the reading device on the outside (connection terminals RA) there is the possibility to connect an optional reading device for the inside (connection terminal RI).
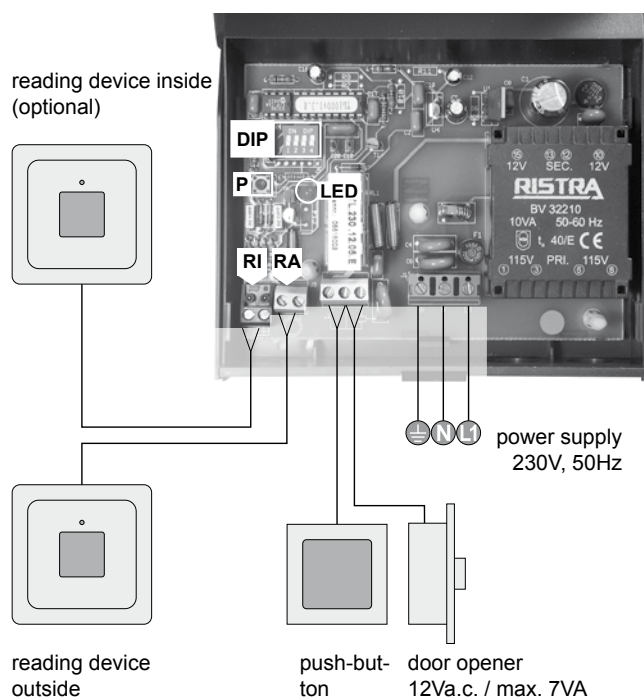
- Guide the wire of the electric door opener through the middle PG-input.
- The power line through the right PG-input.
- close the wires/lines to the corresponding terminals (as described in wire plan).

TL1000

- potential free relay output

reading device inside (optional)

P	programming key
DIP	DIP-switch 1–4
LED	display

DIP

P   LED

RI RA

power supply 230V, 50Hz

potential free contact, 10A

reading device outside (optional)   push-button

TL1000/T

- relay outpit: 12V a.c., max. 7VA

reading device inside (optional)

DIP

P   LED

RI RA

power supply 230V, 50Hz

reading device outside   push-button   door opener 12Va.c. / max. 7VA

Warning

- **After connection the provided cover plate must be attached on the corresponding nipples. This prevents from electric shock when having contact with voltage-carrying parts of the evaluation device !**

During connection, adjusting and maintenance works please be careful that the electronic board is not damaged by humidity.

Programming/learning a key

- Up to 1000 keys can be learned into the TL-1000 .
- These are divided in 4 blocks (4 key colours) at 250 keys each.
- For learning a key please set DIP-switch of the corresponding block 1,2,3 or 4 "ON".
  The key to be learned is placed approx. 2 cm in front of the reading device.
  NOTE: it is not possible to learn two different colours into one key block !

Important

- **Before learning/programming the key the corresponding key block must be reset.**

- **For this purpose put the DIP-switch of the corresponding block on ON and then push the programming key P until a red LED ligths up.**

- A red LED on the reading device and evaluation device lights up shortly for confirmation when the key has been learned in.
- Now the DIP-switch can be put back in its starting position.
- After programming of the key please check whether it works (open door).
- When programming several keys the DIP-switch stays in "ON" position.
  After the LED lights on each key will be confirmed by pushing the programming button.
  Now the next key can be programmend by holding it in front of the reading device. After having programmend the last key the DIP-switch is put back in starting position.

Deleting a key

- Deleting a key is done the same way as programming. The DIP-switch of the corresponding key block is put "ON" and the key to be deleted is placed in front of the reading device.
- the process of deletion is confirmed by a LED that lights on the reader and evaluation device.
- put DIP-switch back in starting position.
- all programmed keys should be registered on a list with corresponding storage place and name of key holder. (*please see key list page 2*). This information is needed in case a key gets lost and therefore has to be deleted.
- The first programmed key occupies in the corresponding key block the storage place 1, the second storage place 2 etc...
- When deleting a key the corresponding storage place will be free. When programming a key into this block it will be assigned to this released storage place.

Attention

when deleting the key on memory place 1 the <u>whole</u> corresponding block is deleted.

Handling the programming pad
(optionaly, *see picture page 7*)

- If a lost key has to be deleted then the plug terminal has to be removed (hence the reading device inside) and the programming keypad is plugged onto the plug terminal. When connected correctly you will hear sound of acknowledgment - that means that in case you do not hear any sound/tone the keypad has been wrongly connected.
- Put DIP-switch of corresponding block on "ON".
- Write the three-digit code on key list (e.g. 005,124,248 etc.)
- By pushing the button "BELL" and then the button "KEY" the corresponding storage place is deleted. The LED´s on reading and evaluation devices light up shortly.

Programming the relay response time

- The circuit time of the output relay can be set by pushing the programming switch (all 4 DIP-switches have to be in starting position).
- Keep the programming button pushed. After 5 seconds the LED begins to blink.
- Each blinking of the LED stands for 1 second of circuit time (e.g. four seconds of circuit time means that LED has to blink 4 times).
- After desired time release the programming button.
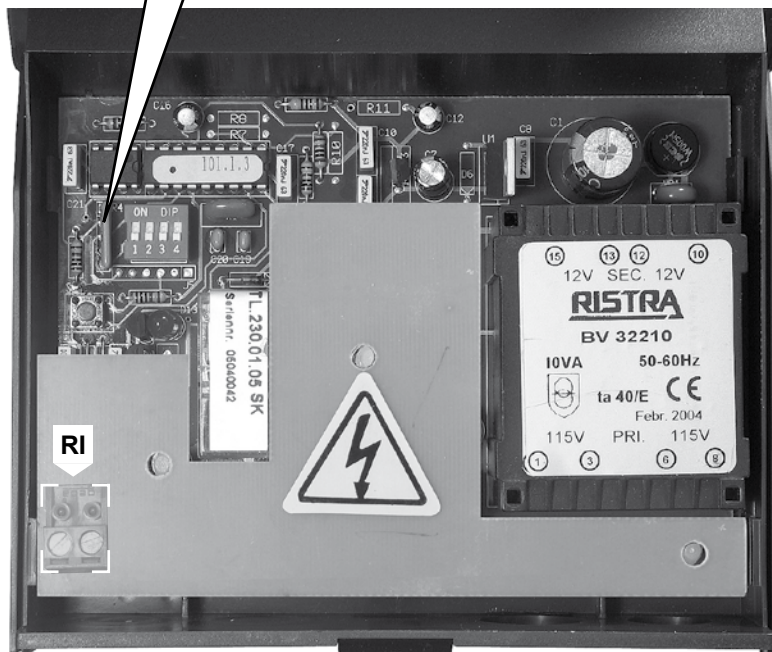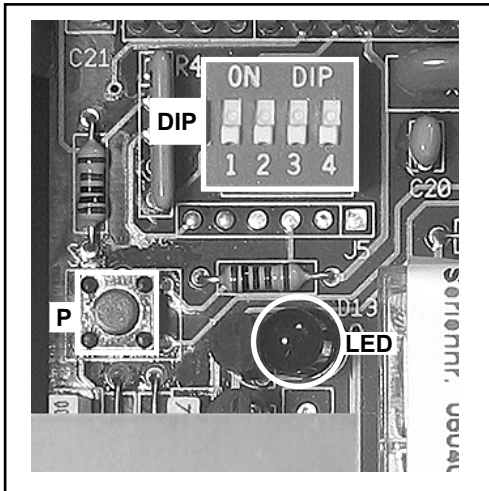- **The max. adjustable circuit time is 255 seconds.**

<table>
<tr><td>⚠️</td><td>**Warning**</td></tr>
</table>

- **The control (programming) of the evaluation unit should only be done with the safety cover attached. Otherwise danger of electric shock !**

P   programming key
DIP   DIP-switch 1–4
LED   display

programming key pad (optional)

RI

measures and technical modifications subject to change !

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- cantilever systems
- swing gate operators
- garage door operators
- folding door operators
- traffic barriers
- carpark management system
- window operators
- domelight operators
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- electronic controls
- radio remote controls
- key operated switches
- access control
- safety devices
- accessories

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