6.2 Installation using the Foundation Frame

See section 5.1 Foundation frame
In this case the turnstile is mounted on the flanges of the foundation frame.

6.3 Opening of the top cover

Fig.6

The top cover is locked in place via 4 hexagon socket head screws.
Unscrew the fasteners with an Allen key. (fig. 6).

Tilt the top cover away from you.

6.4 Placing the components

All cage components are installed to the foundation by using the 8x M8 bolts and washers that came with the shipment.
After final positioning, tighten all bolts firmly.

Fig. 7

6.5 Installing the center column

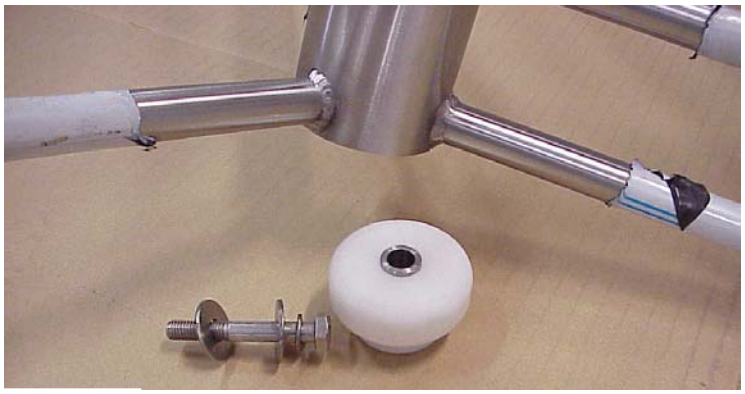


Fig. 8

Fig. 9

Mount the lower bearing on the foundation and slide the centre column over it.

Fig. 10

Attach the center column using the provided 4x M16 bolts and washers to the flange of the upper mechanism.
Make sure the center is in correct position (center in locked position).

7. Electrical Wiring

Any electrical wiring has to be done by a certified electrician in accordance with local electrical codes and the provided wiring diagram.

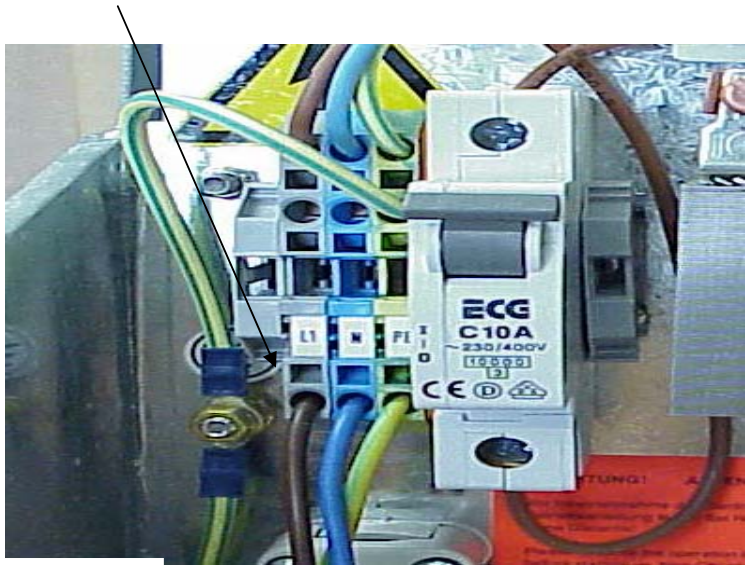


Fig.11

Main power connection Fig. 11

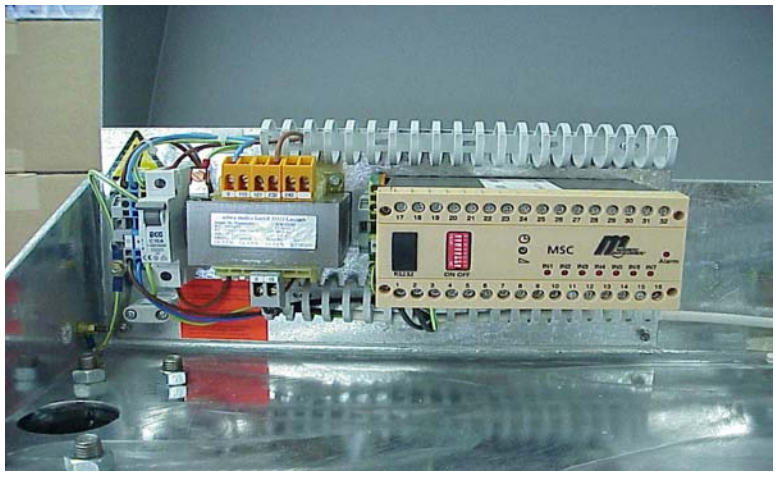


Fig.12

7.1 Wiring Diagram MSC - 10

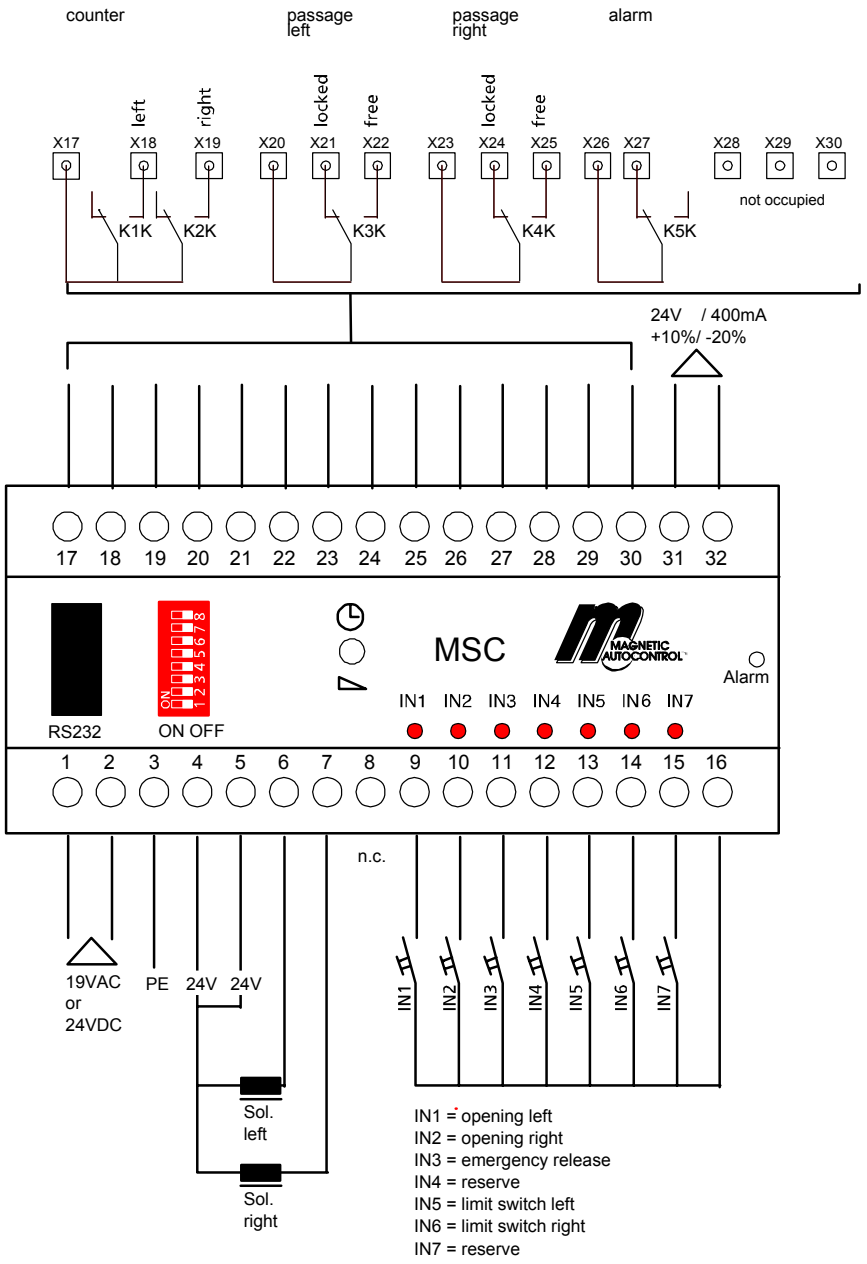


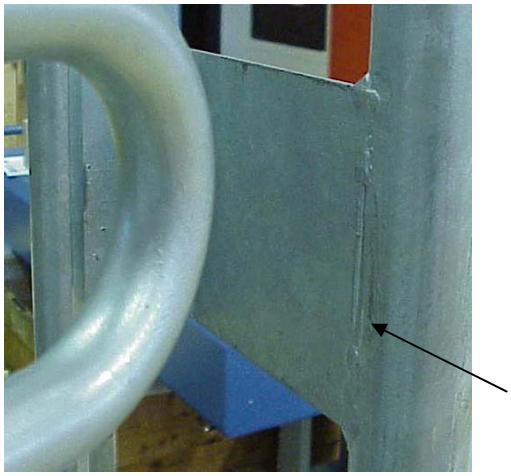
FIG.13

8. Housings / Access Control Panels

Fig.14

Fig. 14 shows the provided access control panel.

Fig. 15 Rear view of the access control panel



The control wiring from the access control device can be fed through the tubing by drilling a hole in the shown position.

Fig.15

Warning:
Any electrical wiring shall only be performed by a certified electrician and must conform with existing local codes and in accordance with this operating manual.

9. Commissioning

Once all electrical and mechanical installation have been completed and checked for errors, the turnstile can be set into service.

Check before start-up that all assembly and installation instructions have been followed and the electrical connections have been performed correctly.

Operation of the Turnstile

The Turnstile is generally operated by an access control system or control switches.

10. Technical Support

Should problems occur please contact an authorized after sales service representative.

Please refer to the nameplate on the turnstile housing for the data required in the case of queries.

11. Spare parts and accessories

See Figure 16 for the exploded drawing, which details the individual parts and their identification numbers.

Spare parts

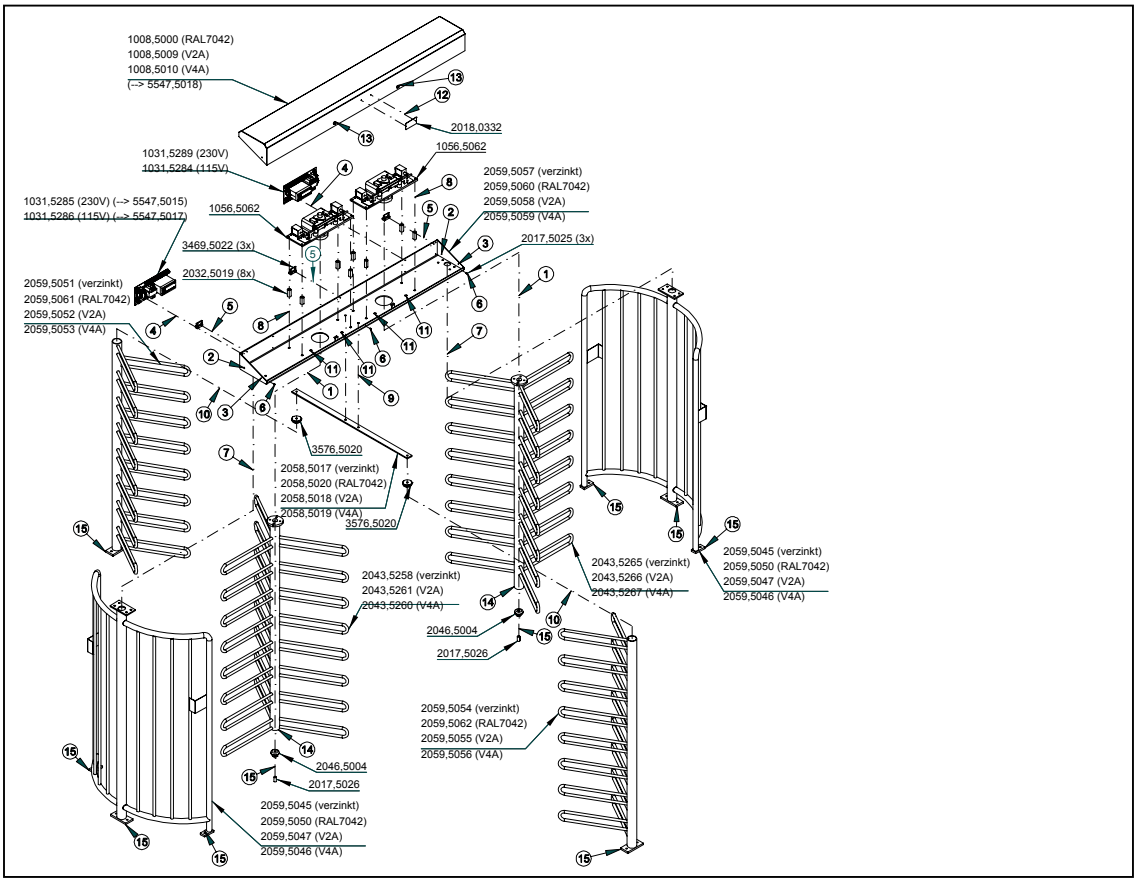


Fig.16

12. Warranty

www.TURNSTILES.us provides a limited warranty on its turnstiles that covers all mechanical and electrical components, but excludes parts subject to wear and tear, for a period of two years from the date of first use or for a maximum of three years from the date on which the system was delivered provided that the operating instructions have been complied with, no unauthorized servicing of machine components has taken place, and that no mechanical damage to the machines is evident.
Please refer to our standard Warranty Statement.

www.TURNSTILES.us, inc. * 8641 South Warhawk Road * Conifer, Colorado 80433 Tel: 303 670 1099 ext 11 Patrick McAllister

13. Control Unit MSC 10

Functions

13.1 Functions of digital inputs

Input 1 terminals X21 / X22 = Opening of passage direction left
Opening pulse passage left (entry).

Input 2 terminals X24 / X 25 = Opening of passage direction right
Opening pulse passage right (exit)

Input 3 IN3, terminal 11 = input emergency situation
In case of emergency passage free in both directions.

13.2 Function of semi conductor outputs

Output 1 terminal X6 = solenoid left

Output 2 terminal X7 = solenoid right

Output 3 terminal X8 = reserve

13.3 Function of relay outputs

Relay 1 = counter pulse left terminal X18
If the end position in passage direction left is reached a counter pulse of 300 ms is given. This applies to permanent release also.

Relay 2 = counter pulse right terminal X19
If the end position in passage direction left is reached a counter pulse of 300 ms is given. This applies to permanent release also.

Relay 3 = Display passage free left terminals X22 + X21
In case of free passage left a permanent signal is given. This output can also be used to lock a pulse transmitter for passage right if passage left is given free.

Relay 4 = Display passage free right terminals X 24 + 25
In case of free passage right a permanent signal is given. This output can also be used to lock a pulse transmitter for passage left if passage right is given free.

Relay 5 = Error-/Alarm output terminal X27
In case of certain errors, a permanent signal is given as long as the error is not eliminated.
Relay 6 = Reserve

13.4 Safety functions

In case of an error in the microcontroller the watchdog, function releases a hardware reset.

14. Adjustable parameters

The following parameters can be adjusted using the controllers DIP switches and rotary switch:

DIP	Function	OFF	ON
1	Barrier type	MPT	MPP
2	Pulse storage	Off	On = 4 pulses per direction
3	Locking delay time	Off	On = 1 sec.approx.
4	Hardware tests	*)	*)
5	Hardware tests	*)	*)
6	Solenoid left	Normal	inverted
7	Solenoid right	Normal	inverted
8	Opening duration via LEDs	No display	display

DIP 1 Selection of barrier type

One of the following barrier types must be selected:

- MPP
- MPT

Currently, this feature is set so that both position will work with the MPT.

DIP 2 Pulse storage

When this function is turned off the MPT allows only one opening pulse at a time. Meaning, after each opening pulse the patron has to walk through the turnstile or the opening time has to elapse in order for the unit to accept the next signal. If turned on the unit stores the opening signals (up to 4 per direction) and the MPT decrements the counts after each turn. Therefore, a faster throughput can be achieved.

DIP 3 Locking delay time

In order to avoid a rotation of more than 120° in case of permanent release or several stored pulses a locking delay time can be activated via a dipswitch. The turnstile is then locked for 1 sec. after each 120° rotation (one person goes through) and will then be released for the next transaction.

DIP 6 Solenoids

Via DIP 6 and DIP 7 the function of both solenoids can be inverted separately for both directions. This depends on whether the turnstile is set up as open or closed when power fails. DIP 6 change the left solenoid output and DIP 7 the right one.

15 Operating modes

14.1 Pulse operation in both directions without pulse storage
14.2 Pulse operation in both directions with pulse storage
14.3 Permanent release in both directions
14.4 Pulse operation in one direction, permanent release in the other direction

Certification

Recommendation 89/392/EWG of 14.06.89 incl. modifications up to 93/68/EWG of 22.07.03

Recommendation 73/23/EWG of 19.02.73 incl. modifications up to 93/68/EWG of 22.07.03

Recommendation 89/336/EWG of 03.05.89 incl. modifications up to 93/68/EWG of 22.07.03

DIN VDE 0113 T1 06.93 (EN 60204-1-1992, IEC 204-1-1992)

DIN EN 292 T2 11.91