

INSTALLATION INSTRUCTIONS FOR TURNSTILES TYPE:
BAR-ONE-BASIC
(BAR-ONE-Unipod, BAR-ONE-Tripod, BAR-ONE-Gate)
without the MLU electronics

1. INTRODUCTION	4
2. TURNSTILE TRANSPORT AND HANDLING	5
3. INSTALLATION OF THE TURNSTILE	5
3.1. DIMENSIONS FOR ANCHORING	6
3.2. HOW TO ACCESS THE ANCHORING HOLES AND MOTOR DRIVE UNIT WITH CONTROL ELECTRONICS	7
3.3. DESCRIPTION OF THE ROTARY GATE WITH MOTOR DRIVE UNIT	8
3.3.1. Rotary gate - Standard	8
3.3.2. Rotary gate - Gate with a straight bar arm	9
3.3.3. Assembling the rotary gate	9
3.3.4. Dismantling the rotary gate	10
3.4. DESCRIPTION OF THE INSTALLATION	11
3.4.1. Necessary tools for installation	11
3.4.2. Recommended tools for installation	12
3.4.3. List of instruction manuals for accessories, that aren't part of this manual	12
3.4.4. General description of the installation	13
4. ELECTRICAL CONNECTION OF THE TURNSTILE	14
4.1. CONNECTING THE POWER SUPPLY	14
4.2. CONNECTING THE SUPERIOR CONTROL SYSTEM OF THE TURNSTILE	15
4.3. DESCRIPTION OF CONNECTION OF TERMINAL BOXES AND CRIMP CONNECTORS	16
5. PUTTING THE TURNSTILE INTO OPERATION	17
5.1. CHECKING THE TURNSTILE BEFORE PUTTING IT INTO OPERATION	17
5.2. INITIALIZATION OF THE TURNSTILE	17
5.3. CHECKING THE ELECTRONICAL COMPONENTS AFTER INITIALIZATION	17
5.4. TESTING ALL THE TURNSTILE FUNCTIONS	17
5.5. ADJUSTING THE TURNSTILE BEHAVIOR TO THE CUSTOMER'S REQUIREMENTS	17
6. DESCRIPTION OF THE TURNSTILE CONNECTION	18
6.1. DESCRIPTION OF CONNECTION OF THE MDD168 DRIVE CONTROL ELECTRONICS	18
6.2. POTENTIAL OF CONTROL SIGNALS	19
6.2.1. Potential of input control signals	19
6.2.2. Potential of the output control signal	19
6.3. CONNECTING A SIMPLE CONTROLLER WITH EXTERNAL BUTTONS WITHOUT A SUPERIOR SYSTEM	19
6.4. CONNECTION FOR CONTROLLING WITH SUPERIOR SYSTEM	20
6.5. CONNECTION FOR CONTROLLING EMERGENCY (FIRE, EPS)	21
6.5.1. Connecting the EMGI module	21
6.5.2. Connection for activation of the EMERGENCY in case of loss of power voltage	24
6.6. CONNECTION OF THE RS485 COMMUNICATION LINE	25
6.6.1. Connecting the computer	25
7. BASIC PRINCIPLE OF THE TURNSTILE CONTROL	26
8. DESCRIPTION OF CONTROLLING THE TURNSTILE BY STATUS SIGNALS	27

8.1.	INPUT CONTROL SIGNALS	27
8.1.1.	Description of the input control signals function	27
8.1.2.	Lengths of input control signals	27
8.2.	OUTPUT CONTROL SIGNALS.....	27
8.2.1.	Description of the output control signal function	27
8.2.2.	Length of the output control signal:	27
8.3.	PASSAGE SIGNALS TIMING DIAGRAMS	28
8.3.1.	Timing diagram - BAR-ONE-Unipod.....	28
8.3.2.	Timing diagram - BAR-ONE-Tripod	28
8.3.3.	Timing diagram - BAR-ONE-Gate	28
9.	DESRPTION OF REMOTE CONTROLING OF THE TURNSTILE	29
10.	TURNSTILE POWER SUPPLY.....	30
10.1.	CONNECTION OF EXTERNAL 13.8VDC POWER SUPPLY	30
10.2.	CONNECTION OF THE EXTERNAL POWER SUPPLY 24VAC/50-60Hz	30
10.2.1.	Connection with single-pole protection.....	31
10.2.2.	Connection with double-pole protection.....	32
10.2.3.	External 230VAC/24VAC power supplies provided by the manufacturer COMINFO	33
10.3.	BASIC PRINCIPLE OF EXTERNAL 230VAC MAINS POWER SUPPLY CONNECTION.....	35
10.4.	POWER INPUT OF THE TURNSTILE	36
11.	COMPLETE WIRING DIAGRAM	36
11.1.	CAPTIONS TO THE DIAGRAMS.....	36
11.2.	24VAC POWER SUPPLY – INDOOR	37
11.3.	24VAC POWER SUPPLY – OUTDOOR.....	38
11.4.	230VAC POWER SUPPLY – INDOOR	39
11.5.	230VAC POWER SUPPLY – OUTDOOR.....	40
12.	TROUBLESHOOTING	41
12.1.	CHECKING THE MDD168 MOTOR DRIVE UNIT	41
12.1.1.	Checking the free rotation of the drive.....	41
12.1.2.	Checking the electromagnetic brake	41
12.1.3.	Setting the home position of the rotary gate.....	42
12.2.	CHANGING THE FIRMWARE OF THE MDD168 DRIVE ELECTRONICS	45
12.3.	REPLACING THE MDD168 MOTOR DRIVE UNIT	45
12.4.	PROTOCOL OF THE PRESCRIBED INSPECTION IN CASE OF TURNSTILE MALFUNCTION.....	47

Appendices at the end of these installation instructions:

- CLAIM REPORT FORM

1. INTRODUCTION

These Installation Instructions are intended for technicians of the Service Department of the COMINFO Company, or workers who passed the Installation schooling provided by the COMINFO company. These Instructions describe installation procedure, electronic construction, function and connection of individual components of the whole BAR-ONE-BASIC system of turnstiles, which is intended for checking and control of passing persons.

Chapters dealing with connection of control electronics are for illustrative purposes intentionally compiled in a way so that the colour design of interconnecting cables is clear. In case of a printed version of these Instructions, the manufacturer strongly recommends to print them in colour.

Turnstile installation must always be performed in accordance with approved project documentation!

Integral part of these Instructions are also the separate *Instructions for use of the BAR-ONE type turnstiles*, which contains basic description of the turnstiles, description of the turnstile operation and a Troubleshooting chapter.

The Instructions employ the following categories of safety instructions:



DANGER!

Mechanical danger. Omission of these instructions may cause personal injuries or device damage.



WARNING!

Important information or procedure.



NOTICE!

Information or procedure recommending how to use the device or its equipment optimally and thus prolong its lifetime, prevent potential damage and optimize work in relation to the safety standards.

2. TURNSTILE TRANSPORT AND HANDLING

Turnstile is packed in a transport wrapping. Transport the turnstile to the place of destination in its transport boxing using a forklift. Take to turnstile to a predetermined place after you unwrap it. At least two persons should cooperate when manipulating the turnstile. During handling of the turnstile, pay increased attention with regard to the safety of persons and potential damage of the turnstile.

Table of weights of the turnstiles including the rotary gate:

Turnstile	Weight [kg]	
	Indoor	Outdoor
BAR-ONE-Unipod	80	82
BAR-ONE-Tripod	82	84
BAR-ONE-Gate	81	83

the weight is valid for turnstiles that include complete optional accessories

3. INSTALLATION OF THE TURNSTILE



The BAR-ONE-Tripod turnstile is supplied partially disassembled and its installation requires technical knowledge, knowledge of technological assembly procedure and skillfulness.



Turnstile can only be installed by a COMINFO service department employee or worker, who possess the certificate of installation schooling from the COMINFO Company.

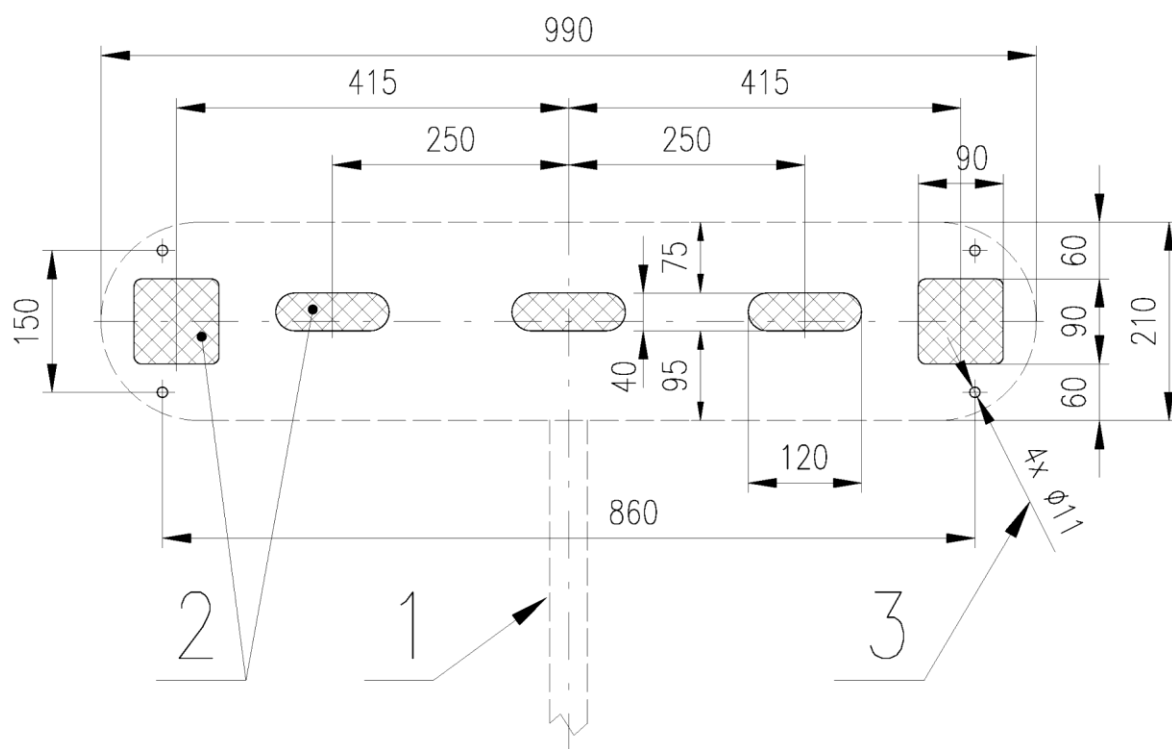


Connection to the mains power supply may only be performed by an authorized person with the appropriate qualifications.

3.1. DIMENSIONS FOR ANCHORING

CAPTIONS FOR THE FIGURES:

1. Contour of the turnstile (dashed lines)
2. Holes for supply leads (cross-hatched)
3. Holes for M8 anchoring bolts



3.2. HOW TO ACCESS THE ANCHORING HOLES AND MOTOR DRIVE UNIT WITH CONTROL ELECTRONICS

We gain access to the motor drive unit with control electronics after disassembling the upper lid of the turnstile. After unlocking the two locks (pos. 1) which are located on the sides of the upper lid, pull the lid upwards. Put the dismantled lid on a predetermined place.

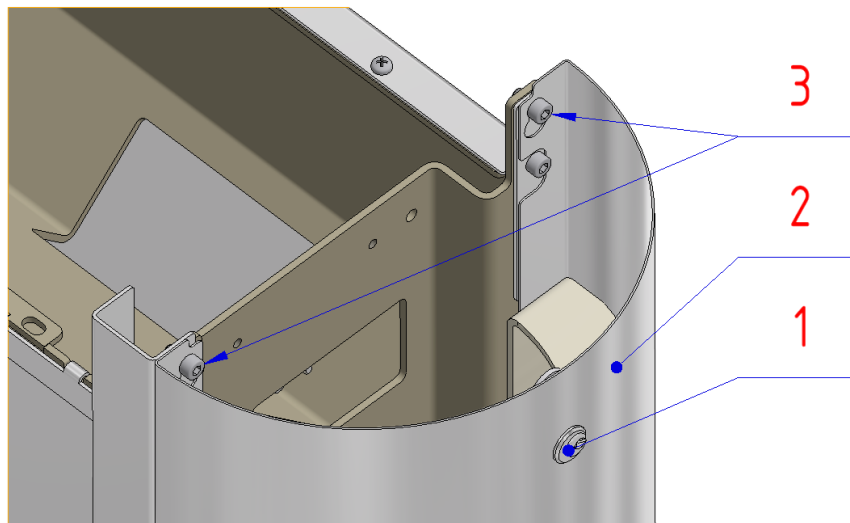
Manipulation with the DOM type lock:

- Insert the key into the lock.
- To unlock, turn the key to the left.
- To lock, turn the key to the right.

It is not possible to remove the key from the lock when in an unlocked state.
After unlocking the two turnstile locks, we have two options:

1. Use two separate keys.
2. We unlock one lock, release the cover and lock it again and use the same key for the second lock.

Access the anchoring holes after disassembling two front covers (pos.2) of the turnstile. To dismantle the front covers, first dismount the upper turnstile lid. After you loosen the two M5 bolts (pos.3) in the upper part of the cover, slide the cover upwards by 10mm and then outwards from the turnstile.

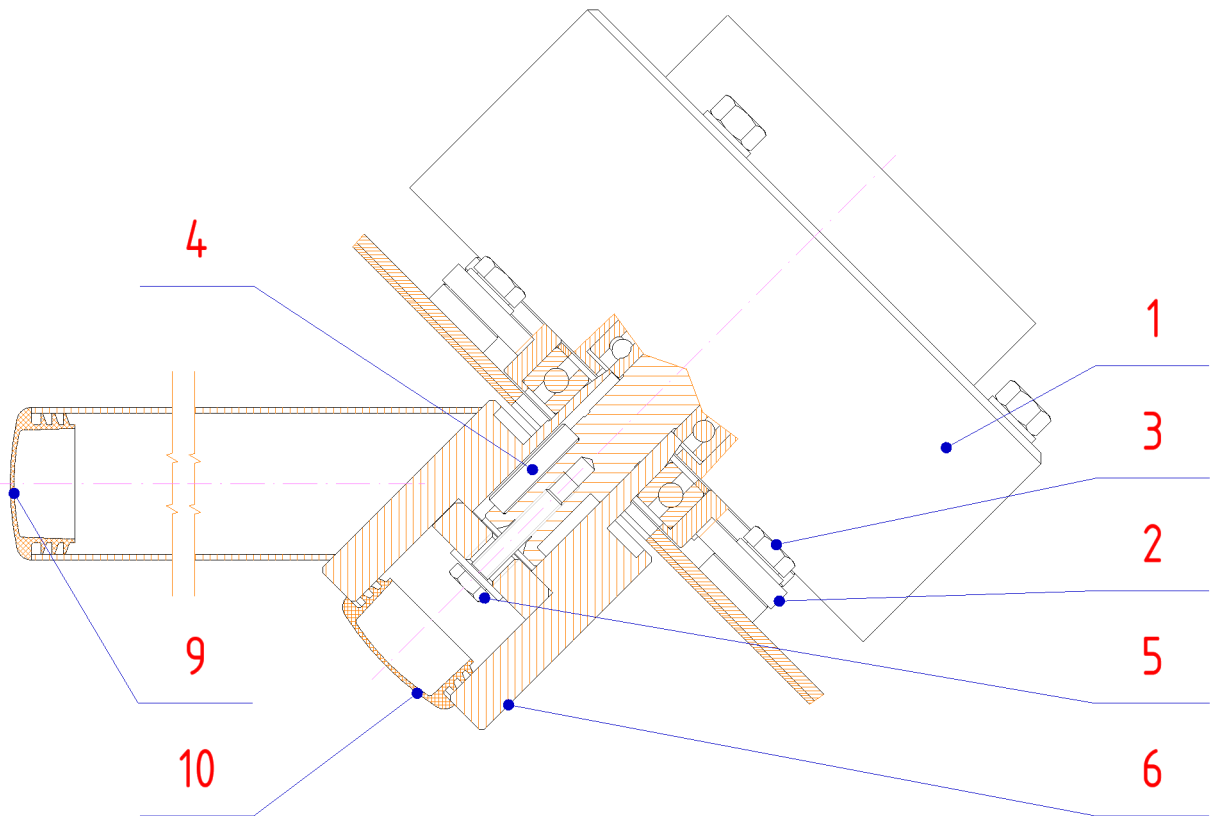


3.3. DESCRIPTION OF THE ROTARY GATE WITH MOTOR DRIVE UNIT

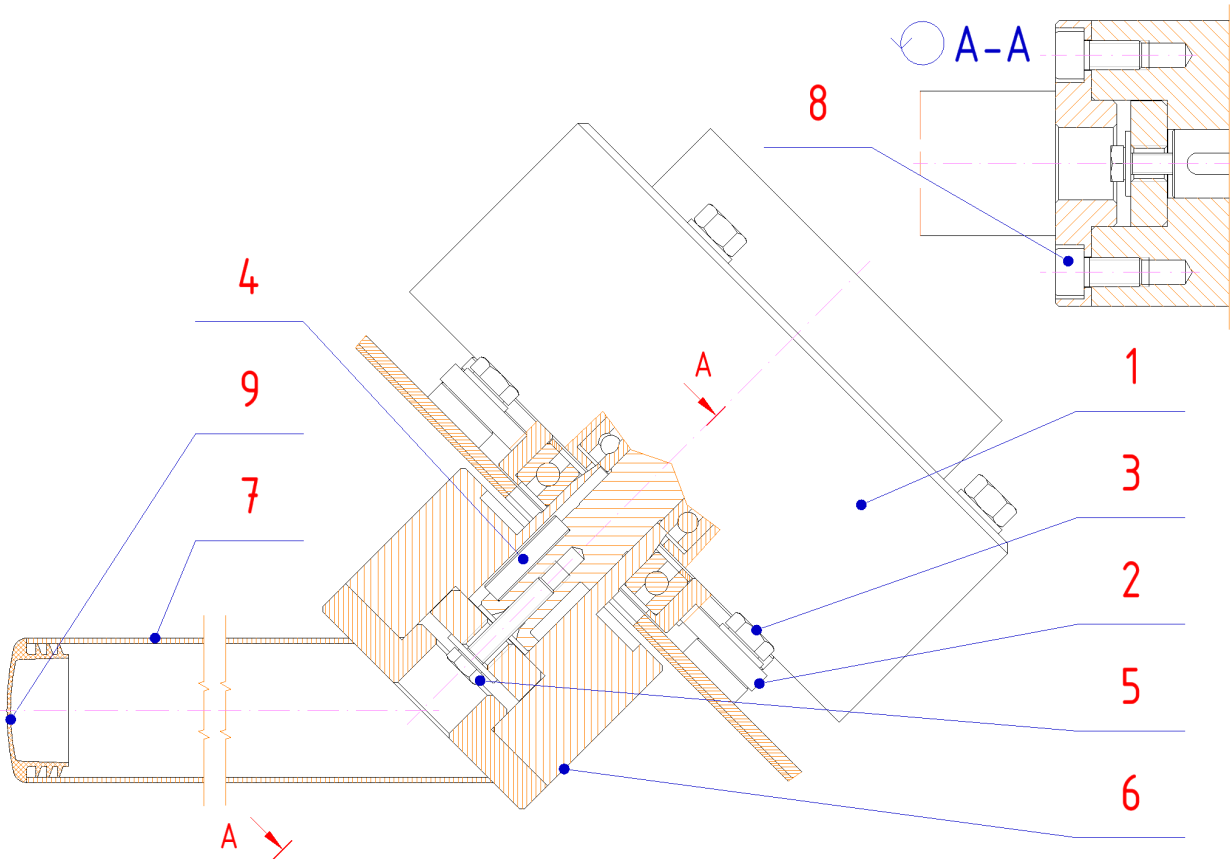
CAPTION TO THE FIGURES:

1. MDD 168 drive unit with integrated control electronics
2. Mounting plate of the drive
3. M8x16 bolt with a washer for attaching the drive into the turnstile cabinet
4. 6x6x28 key on the drive shaft
5. M6x30 bolt with a washer for attaching the head of the rotary gate onto the drive shaft
6. Head of the rotary gate
7. Bar arm of the rotary gate
8. M8x16 bolt for attaching the bar arm on the head of the rotary gate
9. Plastic cover on the bar arm of the rotary gate
10. Plastic cover on the head of the rotary gate

3.3.1. Rotary gate - Standard



3.3.2. Rotary gate - Gate with a straight bar arm



3.3.3. Assembling the rotary gate

- Slide the head of the rotary gate (pos.6) onto the drive shaft (pos.1) and push it all the way to the stop position at the inner drive bearing.
- Secure the head of the rotary gate with the M6x30 bolt with a washer (pos.5). There is a layer of adhesive applied on the bolt by the manufacturer. You will identify the correct bolt by a visible red layer of the adhesive.
- In case of a standard head of the rotary gate, install the plastic cover (pos.10) on the bolt hole.
- In case of a GATE with the straight bar arm, screw the bar arm of the rotary gate (pos.7) to the head using two M8x16 bolts (pos.8).



ALWAYS USE A BOLT WITH ADHESIVE APPLIED BY MANUFACTURER TO ATTACH THE HEAD OF THE ROTARY GATE. REPLACE THE BOLT WITH ADHESIVE FOR A NEW ONE WITH EACH DISASSEMBLY OF THE ROTARY GATE.



Before mounting the head of the rotary gate (pos.6) on the drive shaft (pos.1), thoroughly clean the shaft and grease it with Vaseline.

3.3.4. Dismantling the rotary gate

- In case of a standard head, first remove the plastic cover (pos.10) covering the bolt hole.
- In case of a GATE with the straight bar arm, first remove the two M8x16 bolts (pos.8) and remove the bar arm of the rotary gate (pos.7) from the head (pos.6).
- Remove the M6x30 bolt with the washer (pos.5).
- Screw the M10 high strength bolt (pos.11) with minimal length of 30mm, into the bolt hole (pos.5).
- By slowly tightening the bolt (pos.11) while tapping the head of this bolt we remove the head from the rotary gate (pos.6) from the drive shaft (pos.1).

3.4. DESCRIPTION OF THE INSTALLATION

3.4.1. Necessary tools for installation



All fastening materials used in the turnstile are metric.

- Turnstile Tester
- NOTEBOOK with current version of the TCONF and TDIAG application
- USB/485 converter with connection cable
- Manuals for accessories installed in the turnstile

- drill hammer
- ACU screwdriver with adjustable torque
- set of drill bits for concrete with diameter of 8 to 12mm (for minimum drill depth of 100mm)

- set of Allen Keys from 2.5 to 6mm
- cross-point screwdriver PH1, PH2, PZ2
- slot screwdriver 2.5 and 3.5mm
- set of spanners 5.5 to 19mm
- ratchet with set of nuts from 5.5 to 19mm, TX T30 and TX T45

- Lineman's pliers
- tongue-and-groove pliers
- pincers
- cable stripping pliers
- electrical wire stripping pliers
- crimping pliers
- knife

- pencil (not a chalk or brick)
- tape measure and steel tape measure
- ruler (long straight batten or wiring lath)
- 2 cords of needed length to set installation axes
- water level
- try square
- extension cable for electrical tools
- multimeter
- tweezers

- broom and dustpan
- brush for cleaning of dusty parts
- duster and detergent for glass and stainless-steel (*according to the turnstile manual*)

- chemical anchors or different anchoring material
- quick-setting concrete
- hollow pin connectors of sizes (0.25; 0.5; 0.75; 1; 1.5)
- cable ties
- insulating tape
- set of spare bolts, nuts, and washers M3 to M10

3.4.2. Recommended tools for installation

- handheld angle grinder
- set of drills for iron with diameter 2 to 10mm
- step drill bit size 6 to 30mm for metal sheet
- screwing tap size M3 to M8
- TX key T30
- round and square files
- hammer 500g
- Loctite 243 (to fix screws)
- silicone sealant
- mounting foam
- vaseline

3.4.3. List of instruction manuals for accessories, that aren't part of this manual

- **TCONF** (Configuration SW for setting the parameters and diagnostics of the turnstile)
– **see manual:** *Instructions for the TCONF application*

3.4.4. General description of the installation

The area of installation must be free from clutter and perfectly even before you start installing. Base for anchoring has to be solid enough so that stability of the turnstile is ensured. In case of large unevenness of the ground, use special bolsters under the turnstile legs. If the anchorage is to be performed on interlocking pavers, a special anchoring frame is used. This frame must be anchored in the foundation concrete surface before laying the interlocking pavers. These bolsters and the anchoring frame are made with regard to the actual state of the ground after its precise measuring.



When measuring, marking and drilling, it is essential to work with precision of 2mm. Especially in the initial phase of assembly, a cooperation of at least 2 workers is essential for observing the accuracy.

1. Determine axis (axes) of the turnstile system and other components (e.g. barriers).
2. Line up particular turnstiles or other components of the system in required distances on the axis. Depending on undulation of the floor, underlay the turnstile in order to make it stand in a perfectly vertical position.
3. After the lining up, mark centers of the holes in accordance with anchoring dimensions in the chapter *Anchoring Dimensions* and drill holes in accordance with the used anchoring material:
 - **Chemical anchors M8x100** (recommended by the manufacturer) - drill at least 12mm x 100mm. Carefully clean the hole - get rid of dust.
 - **Bolted anchors M8x100** ("drivers") - drill 8mm x 100mm. Clean the hole and check its sufficient depth.
 - **Other anchoring material** (such as Turbo bolts) - proceed in compliance with the instructions of manufacturer of the anchoring material.

The holes for the anchoring material must be drilled at the right angle to the floor and the procedure based on used anchoring technology must be strictly adhered.

4. Lead the power supply and control cables through the feet of the turnstile to the terminal board in the turnstile cabinet.
5. Anchor the turnstile to the floor by M8 anchoring bolts.
6. Check the verticality of the turnstile.
7. Perform the electrical connection in compliance with the chapter *Electrical connection of the turnstile*.
8. The BAR-ONE-Tripod turnstile is delivered with dismounted rotary gate. Clean and grease the motor drive unit shaft. Slide the head of the rotary gate onto the motor drive unit shaft and secure it by tightening the M6x30 bolt over its washer. It is necessary to use a bolt with beforehand applied adhesive provided by the turnstile manufacturer (see the chapter *Description of the Rotary Gate with Motor Drive Unit*).
9. Put the turnstile into operation according to the chapter *Putting the turnstile into operation*.
10. Install all the removed covers.
11. At the end of the installation, completely clean the turnstile and the external stainless-steel surfaces with specified agent.

4. ELECTRICAL CONNECTION OF THE TURNSTILE



The electrical installation of the turnstile must always be performed in accordance with approved project documentation!

4.1. CONNECTING THE POWER SUPPLY



IT IS ALWAYS NECESSARY TO CONNECT THE POWER SUPPLY CABLES WITH DISCONNECTED POWER SUPPLY. IN CASE OF USING THE BACKUP POWER SUPPLY EVEN THE BACKUP POWER SUPPLY MUST BE DISCONNECTED.

The supply voltage must meet all the requirements listed in the *Turnstile power supply* chapter.



Connection to the mains power supply may only be performed by an authorized person with the appropriate qualifications.

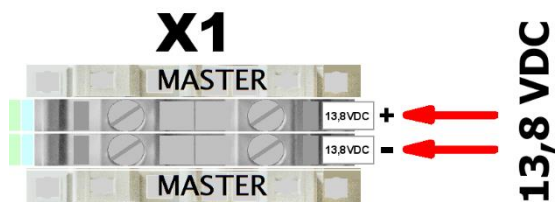
The turnstile is made in three variants of power supply - 13.8VDC, 24VAC, 230VAC.



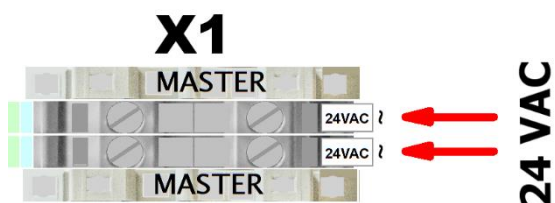
BEFORE CONNECTING THE POWER SUPPLY CABLE, IT IS NECESSARY TO CHECK IF THE SUPPLY VOLTAGE VALUE CORRESPONDS WITH THE VALUE OF THE NOMINAL VOLTAGE ON THE PRODUCTION LABEL AND ADHERE TO THE LISTED POLARITY.

IF YOU USE INCORRECT VALUE OR POLARITY, YOU MAY DAMAGE OR DESTROY THE ELECTRONIC INSTRUMENTS OF THE TURNSTILE AND PUT PEOPLE IN DANGER.

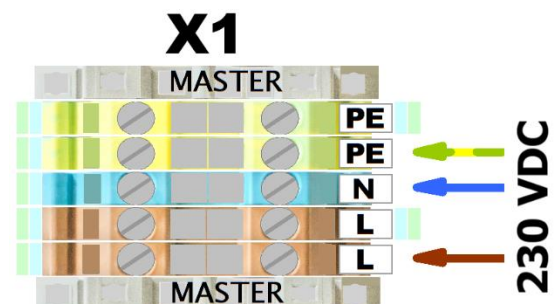
Connect the supply voltage to the X1 terminal according to following figures



Connection of supply voltage in case of using the 13.8VDC power supply.



Connection of supply voltage in case of using the 24VAC transformer.

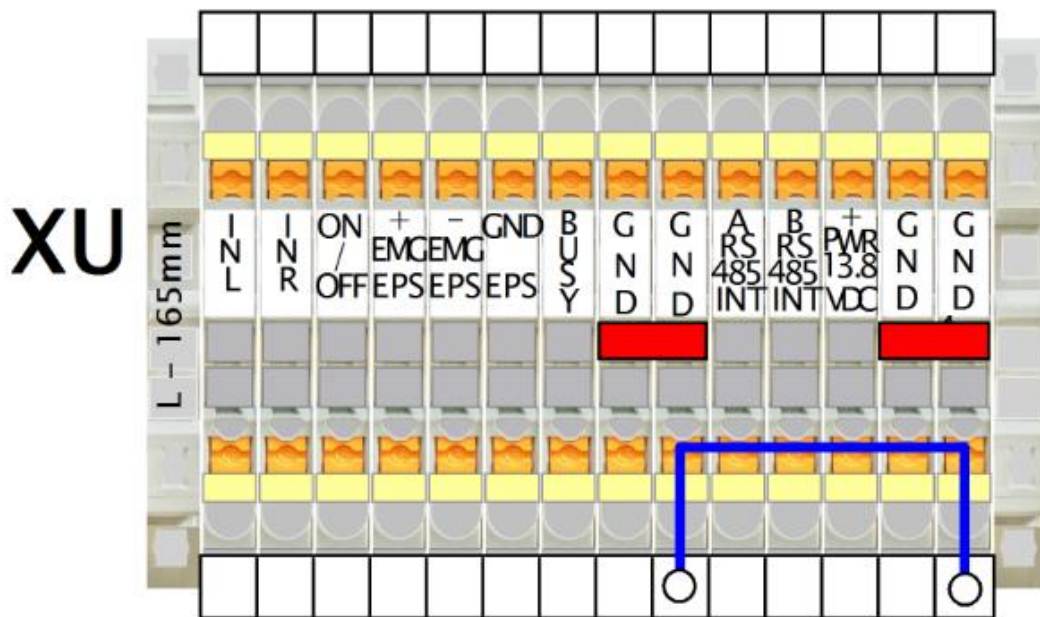


Connection of supply voltage in case of using the 230VAC mains supply.

4.2. CONNECTING THE SUPERIOR CONTROL SYSTEM OF THE TURNSTILE

- All the input and output control signals are leading to the **XU** user terminal in the turnstile.

User terminal XU:



- When performing the connection, follow the *Description of the turnstile connection* chapter.

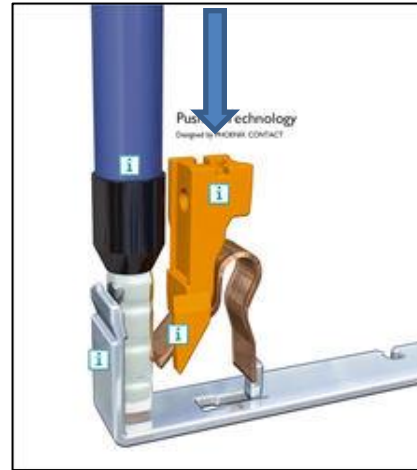
4.3. DESCRIPTION OF CONNECTION OF TERMINAL BOXES AND CRIMP CONNECTORS



- The wires must be connected so that their insulation is inserted in the terminal recess.
- When inserting the wires without the hollow pin connectors, make sure that all strands of the wire are inserted into the terminal.
- Always check the correct wire connection by pulling.

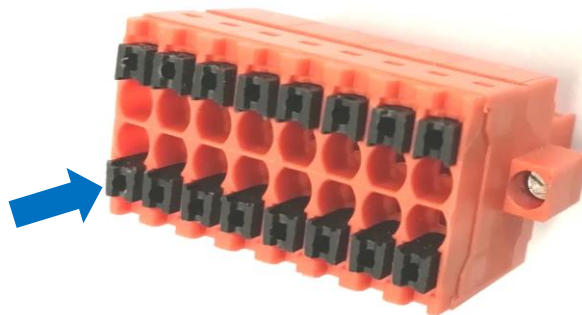
Serial Phoenix terminal box with flexible push-in clamps:

- Usage: Terminals - X1, X2, XU.
- The clamp enables direct insertion of rigid wires and wires with hollow pin connectors without additional tools.
- When connecting the stranded wires without the hollow pin connector or disconnecting the wires, you can open the clamp by pressing the orange button with any tool as shown on the figure.



Weidmüller connector with flexible push-in clamps:

- Usage: MDD168 drive.
- The clamp enables direct insertion of rigid wires and wires with hollow pin connectors without additional tools.
- When connecting the stranded wires without the hollow pin connector or disconnecting the wires, you can open the clamp by pressing the button with any tool according to the arrow on the figure.



5. PUTTING THE TURNSTILE INTO OPERATION



After the turnstile has been put into operation, it is recommended to check the mechanical part of the turnstile after one month to see if any parts have become loose. Adjust and tighten loose parts.

5.1. CHECKING THE TURNSTILE BEFORE PUTTING IT INTO OPERATION

- Check that all wires are connected to the appropriate terminals according to the wiring diagram.
- Check that all screw terminals are properly tightened.
- With adequate pulling of the wires check the connection with a spring push-in connector.

5.2. INITIALIZATION OF THE TURNSTILE



Turnstile can only be put into operation by a COMINFO service department employee or worker, who possess the certificate of installation schooling from the COMINFO Company.

When putting the turnstile into operation, the gate will turn into its home position after connection of power supply. If the gate does not turn into the home position, follow the steps in the *Troubleshooting* chapter.

5.3. CHECKING THE ELECTRONICAL COMPONENTS AFTER INITIALIZATION

The electronic components are equipped with optical signalization of operating states. If everything is in order, electronical components must signal following state:

- SM12 power supply
 - green power LED is on
- Supercapacitors (SUPERCAP)
 - green power LED is on

If the signaling is different, proceed according to the chapter *Troubleshooting* and relevant electronic manual.



Your turnstile may not be equipped with above mentioned features, based on the type of your turnstile and its optional accessories

5.4. TESTING ALL THE TURNSTILE FUNCTIONS



Before connecting the superior system, perform a check of all turnstile functions.

The check is performed by connecting the signals to the user terminal XU according to chapter *Description of controlling the turnstile by status signals*.

5.5. ADJUSTING THE TURNSTILE BEHAVIOR TO THE CUSTOMER'S REQUIREMENTS

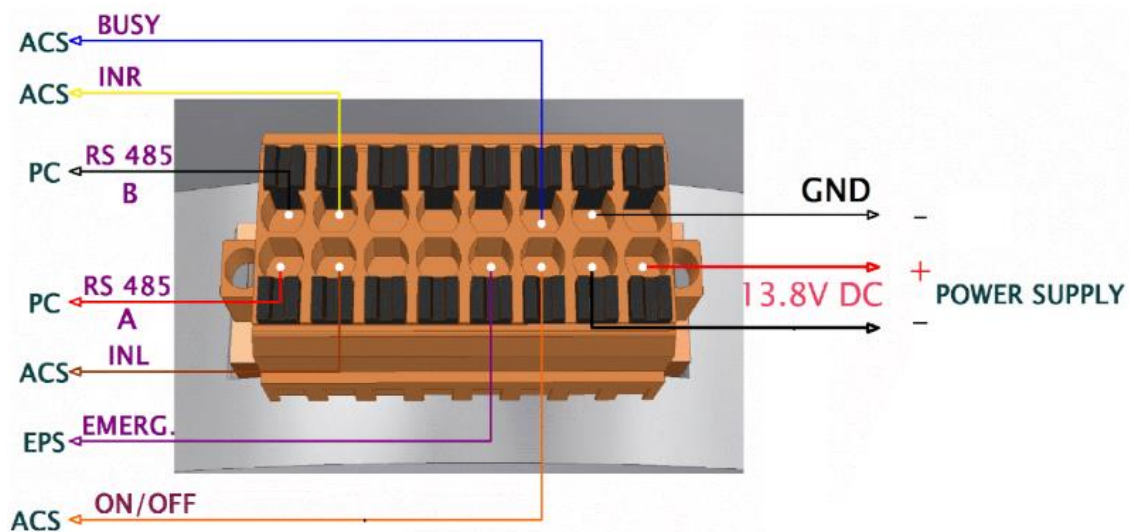


- The turnstiles type BAR-ONE-BASIC do not allow any adjustments of the turnstile behavior.
- When installing additional rubber protection of the gate, it is necessary to change the parameters of the drive unit due to increased weight of the rotary gate.

6. DESCRIPTION OF THE TURNSTILE CONNECTION

6.1. DESCRIPTION OF CONNECTION OF THE MDD168 DRIVE CONTROL ELECTRONICS

- The BASIC version of the BAR ONE turnstile is not controlled by the MLU5 electronics.
- All of the turnstile functions including passages are controlled only by the MDD168 drive electronics.
- Power supply and all the signals are lead from the drive connector to the user terminal XU.
- The connector connections are shown on the following figure.



Description of inputs

- ON/OFF input - connector for the ON/OFF switch
- INL input - for controlling the direction of the L passage
- INR input - for controlling the direction of the R passage
- EMERG input - for controlling the EPS (Fire alarm system)
- RS 485 AB input - for connection of PC

Description of outputs

- BUSY output - signal for the superior system of the turnstile in operation

Power supply

- 13.8VDC /GND - power supply exclusively from the SM12 power supply manufactured by COMINFO



No circuits shall be connected to other terminals.

6.2. POTENTIAL OF CONTROL SIGNALS

6.2.1. Potential of input control signals

All the input control signals (except the EMGI signal) are activated / deactivated by connecting to the GND potential (-13.8 VDC) of the MDD168 drive electronics power supply.



The input control signals must have no external potential. If the superior system uses its potential, it is necessary to separate the potentials by a relay.

The GND potential is not and must not be connected to the machine frame or PE protective circuit.

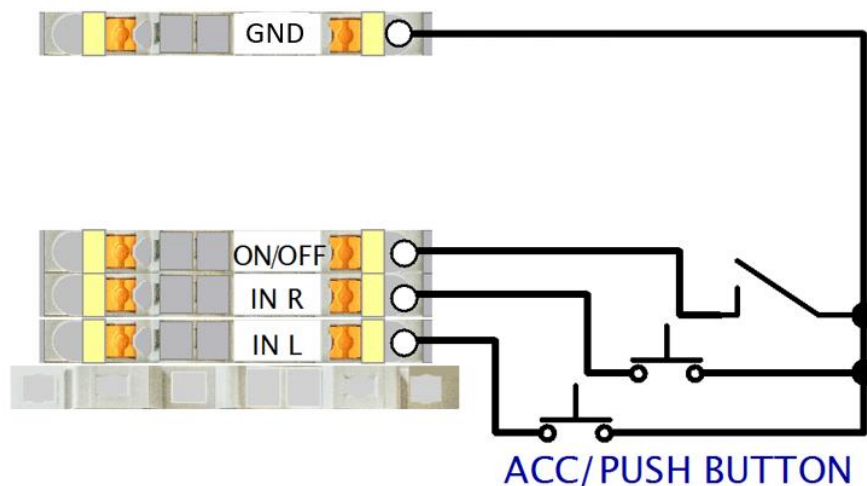
6.2.2. Potential of the output control signal

The BASIC version of the BAR ONE turnstile disposes by only one BUSY output signal.

It is a transistor output with permissible current load of 500mA which switches the GND potential.

When using the signal for the superior system, it is necessary to use a relay.

6.3. CONNECTING A SIMPLE CONTROLLER WITH EXTERNAL BUTTONS WITHOUT A SUPERIOR SYSTEM



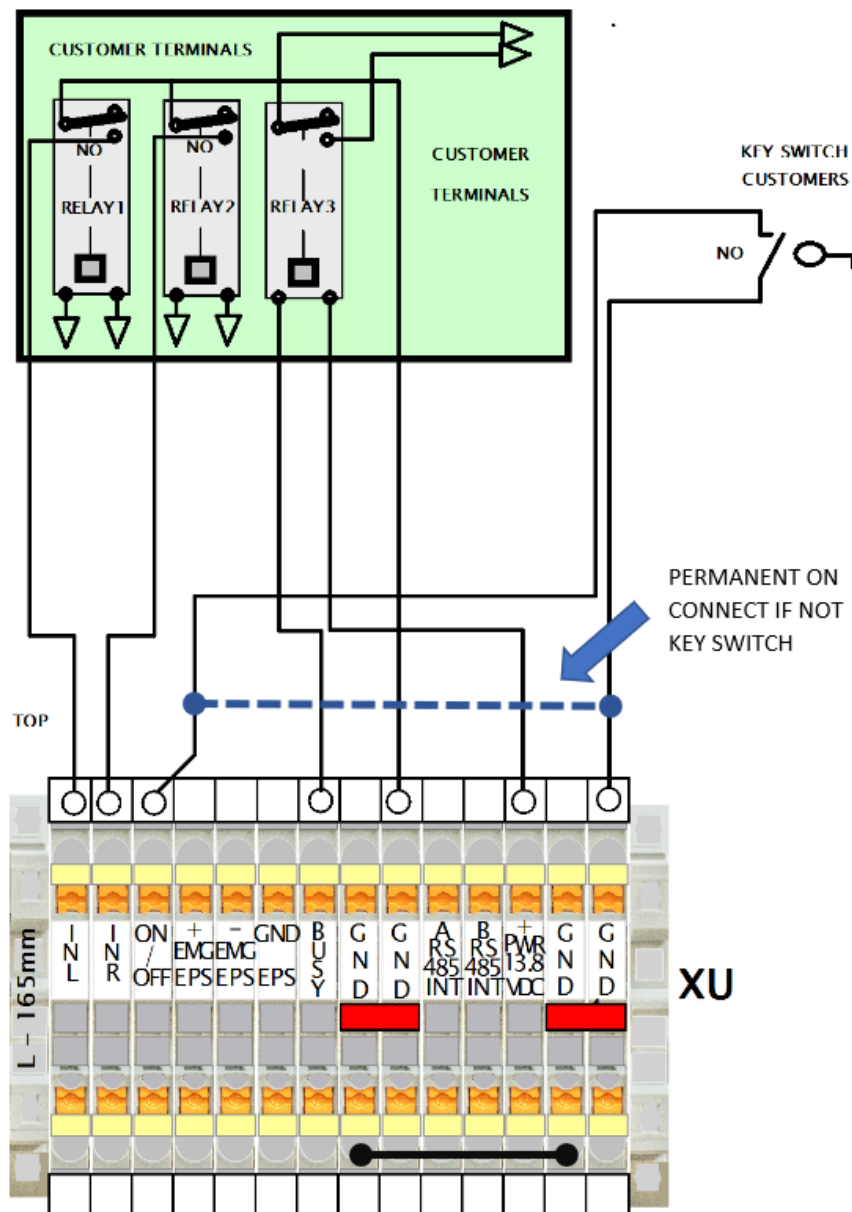
- The control signals are connected to the **XU** terminal.
- When controlling by the signals on the INL and INR inputs, the ON/OFF input must be activated.
- If the turnstile shutdown function will not be used, the ON/OFF input shall be permanently interconnected with the GND terminal.
- If you require the turnstile to be permanently open in one direction, the IN or INR input shall be permanently interconnected with the GND terminal.
- If only a temporary permanent release is required, rotary knobs are used in addition to the buttons.

6.4. CONNECTION FOR CONTROLLING WITH SUPERIOR SYSTEM



The superior system must not be powered by the turnstile power supply SM12 (the turnstile and superior system have different potential).

- Input control signals with own potential must be connected through a relay.
- To control input signals through a relay you must use the GND terminal.
- If the turnstile shutdown function with KEY SWITCH controller will be used, remove the connecting wire between GND and ON/OFF.
- The output signal BUSY must be connected to the superior system through a 12VDC relay.
- The relay coil of the BUSY signal is connected to terminals +PWR13.8VDC and BUSY.



6.5. CONNECTION FOR CONTROLLING EMERGENCY (FIRE, EPS)

It concerns a connection of the superior signal FIRE (EPS) of the fire alarm system, which processes signals from safety devices (fire detectors, etc.)

6.5.1. Connecting the EMGI module



The EMERGENCY function is connected using the EMGI module.

The module enables connection of all generally used signals of the FIRE(EPS) systems:

- FIRE (EPS) signal - NC type contact, potential-free
- FIRE (EPS) signal - NO type contact, potential-free
- FIRE (EPS) signal - NC type contact, 24VDC potential
- FIRE (EPS) signal - NO type contact, 24VDC potential

Module adjustment:

- The potential-free or powered signal is set with the jumper on the EMGI module.
 - Potential-free - jumper in position CONTACT (factory setting),
 - Powered - jumper in position VOLTAGE,
- The contact type is selected by reconnecting the input nr.2 of the MLU5 electronics to the respective terminal on the EMGI module,
 - The NC type contact is selected by reconnecting to the terminal nr.6 on the EMGI module,
 - The NO type contact is selected by reconnecting to the terminal nr.7 on the EMGI module (factory setting),

Connecting the FIRE (EPS) signal:

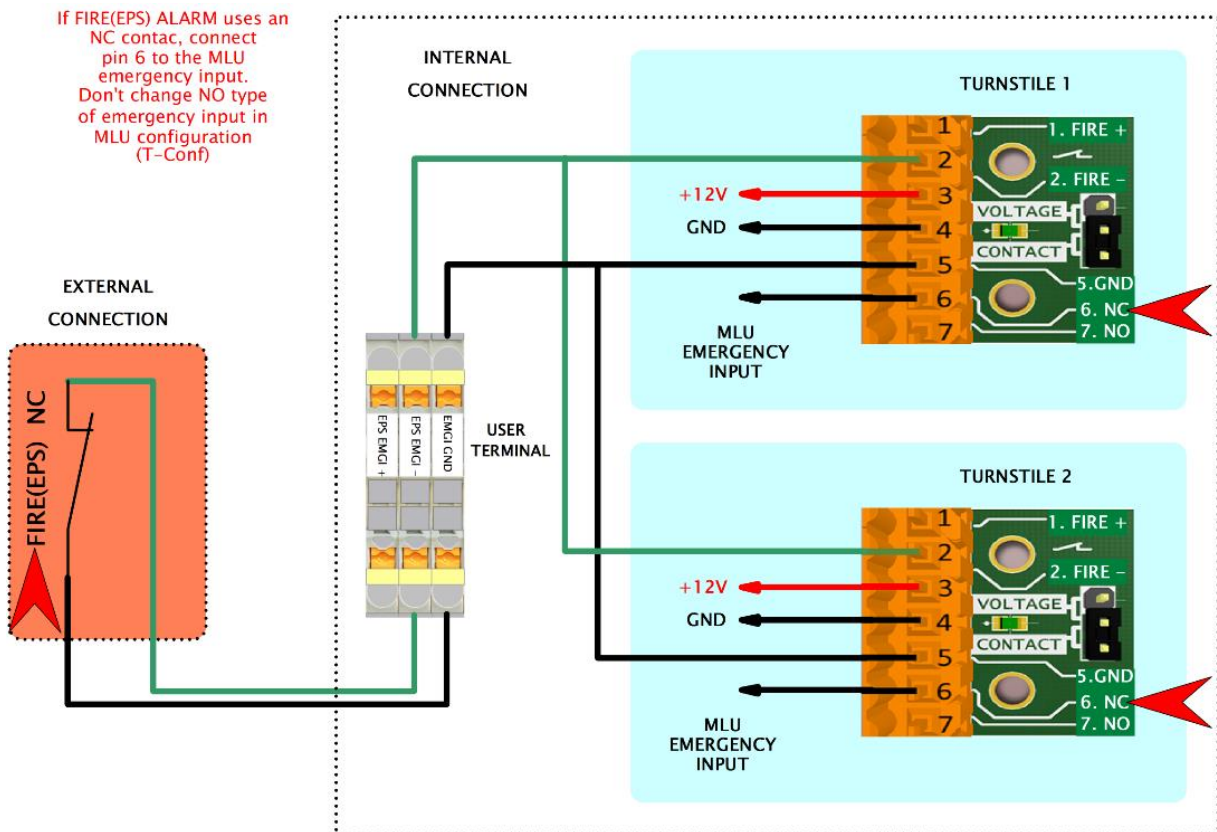
- The FIRE (EPS) signal is connected to the user terminal XU.
 - The potential-free signal is connected to the EMGI GND and EPS EMGI – terminals
 - The powered signal is connected to the EPS EMGI + and EPS EMGI – terminals



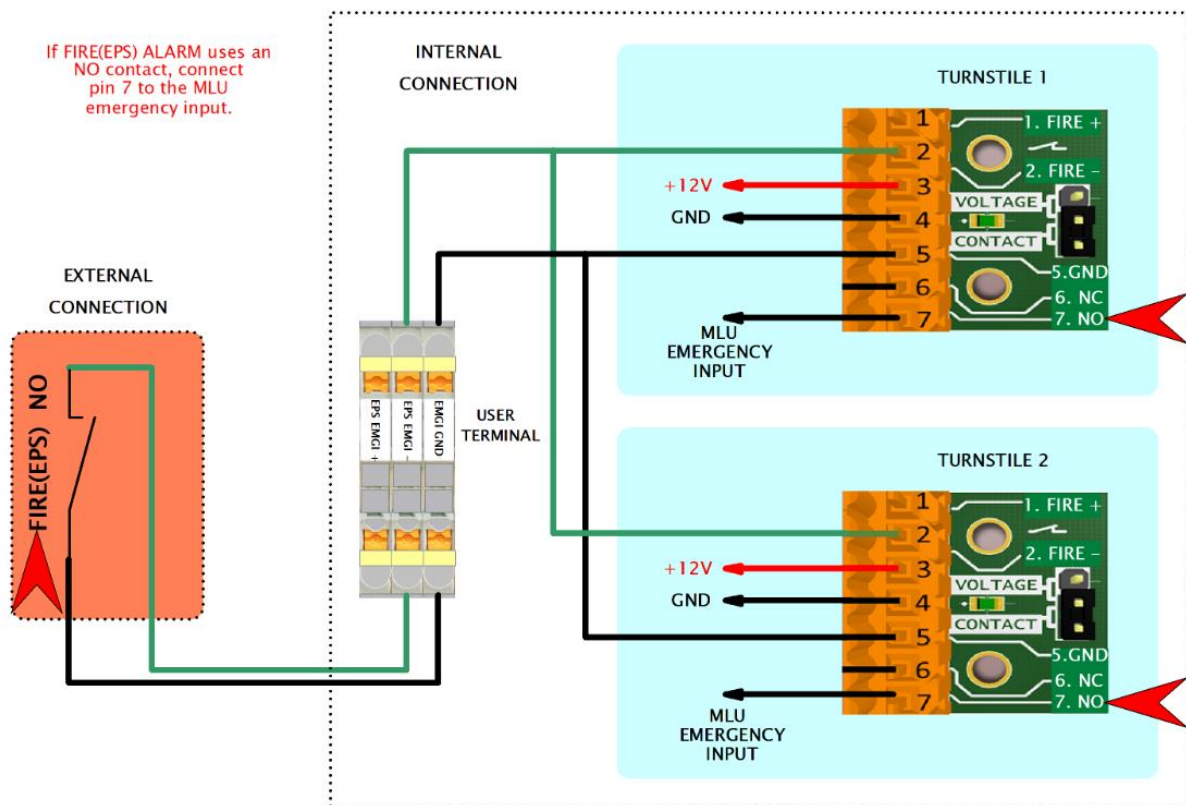
When connecting the powered signal, it is important to adhere to correct polarity.

All wiring options and settings of the EMGI module are described in the following diagrams:

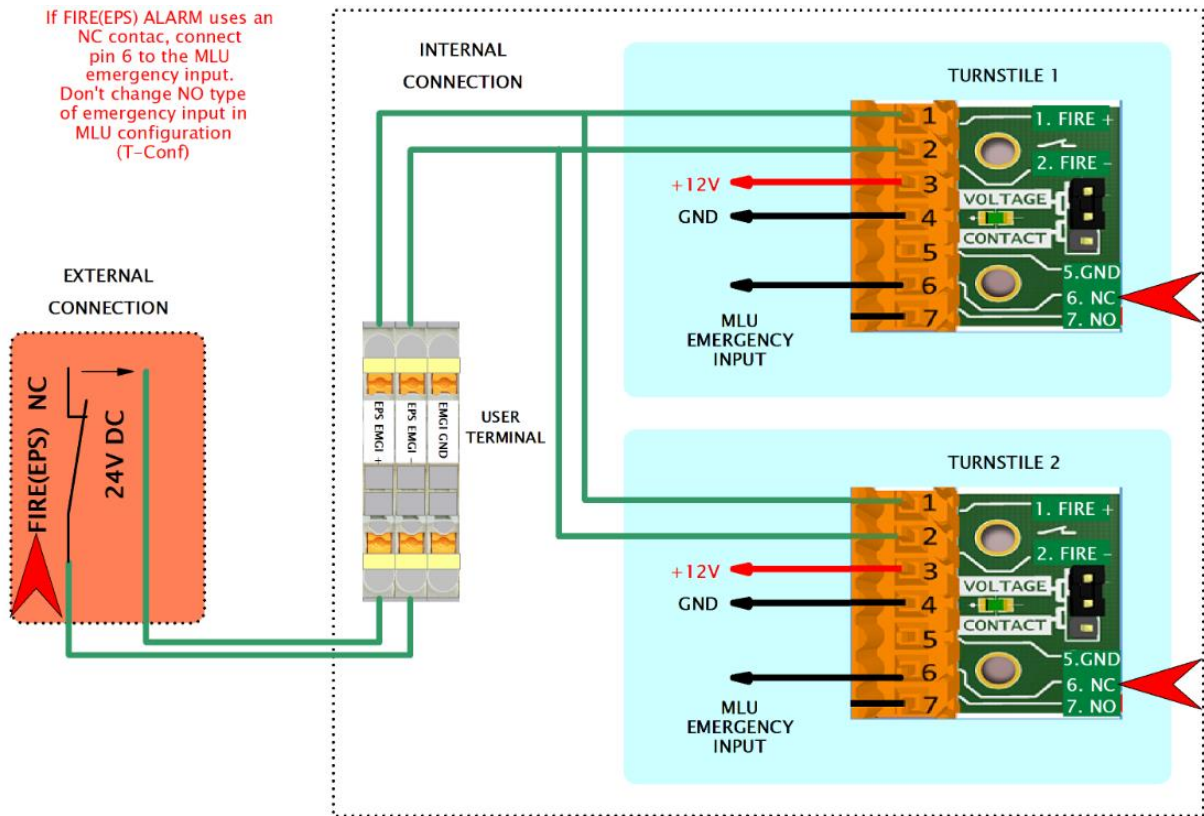
EPS - NC type contact, potential-free



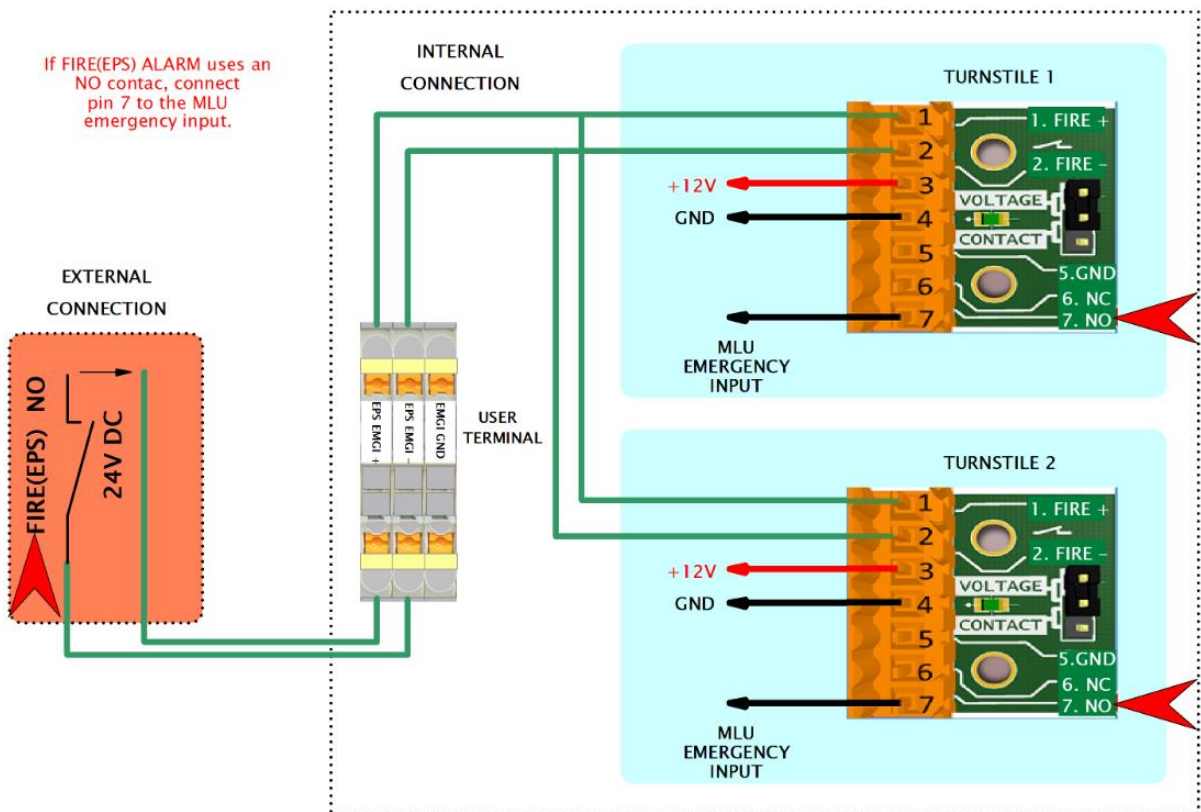
EPS - NO type contact, potential-free



EPS - NC type contact, 24VDC



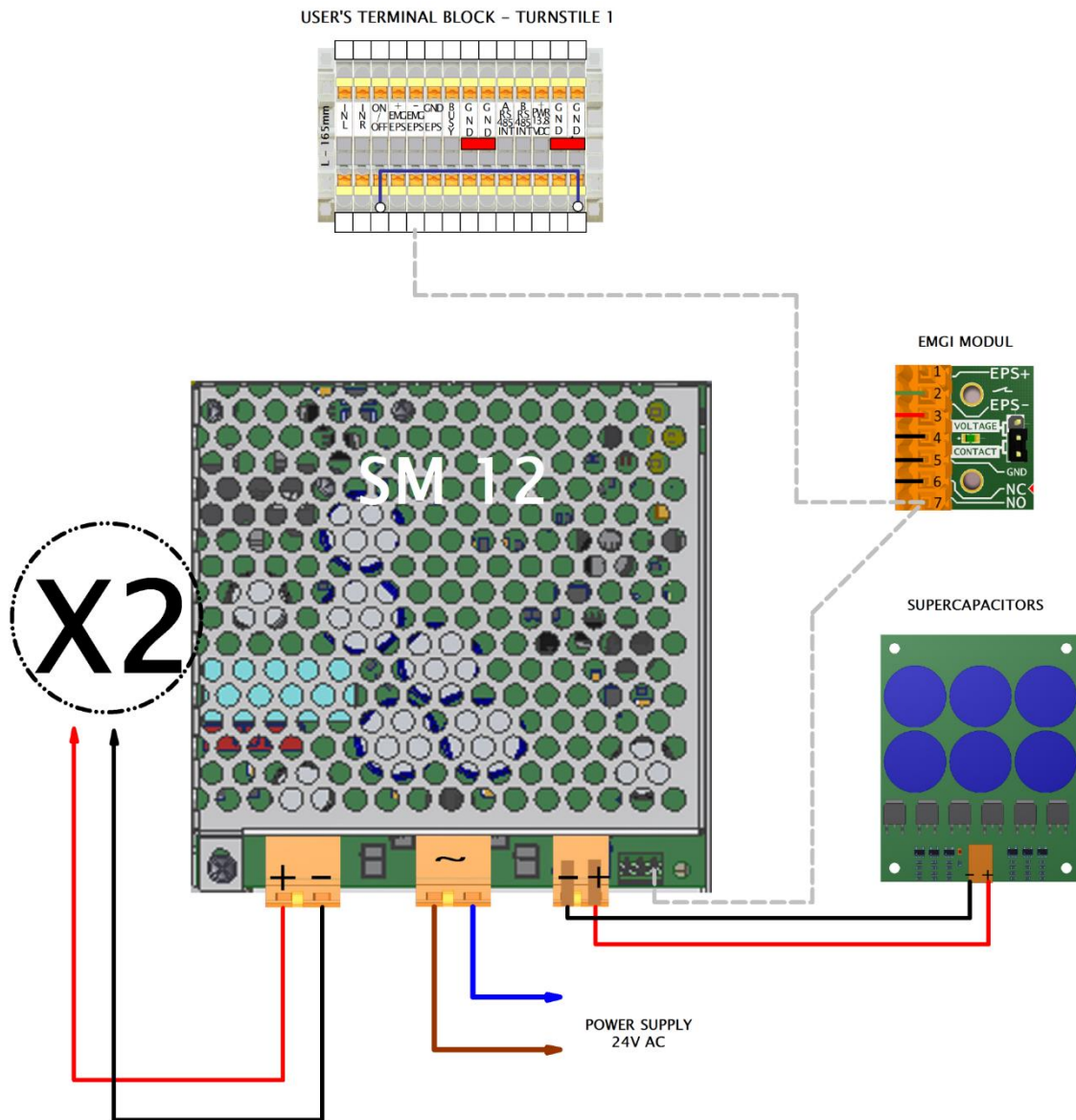
EPS - NO type contact, 24VDC



6.5.2. Connection for activation of the EMERGENCY in case of loss of power voltage

CONNECTION WITH A COMINFO SM12 BACKUP POWER SUPPLY:

- For this function the turnstile has to be equipped with supercapacitors.
- The SM12 backup power supply has an output that is activated when switching to the backup power supply.
- The output O1 of the SM12 backup power supply is connected to the EMGI module terminal nr.7, according to the following figure.



CONNECTION WITH BACKUP POWER SUPPLIES BY A THIRD-PARTY MANUFACTURERS:

- Connection with third-party power supplies is only possible after consultation with the COMINFO Technical Support.

6.6. CONNECTION OF THE RS485 COMMUNICATION LINE

- The BAR ONE BASIC turnstiles are equipped with only one communication line RS 485 DATA INT.
- The line is used only to connect PC when uploading firmware to the MDD168 drive unit and to set the turnstile home position after replacing the drive unit.

6.6.1. Connecting the computer

- Connect the computer to the user terminal XU, to the terminals A RS485 INT and B RS485INT.
- The computer is connected via the RS485-USB converter.



To connect via RS485-USB converter or RS485 Ethernet, it is necessary to use the converter supplied by the COMINFO company. Correct functioning is not guaranteed if different converter is used.



7. BASIC PRINCIPLE OF THE TURNSTILE CONTROL



The BASIC versions of BAR ONE turnstiles have only limited basic functions.

- The turnstile is not equipped with the MLU5 control electronics.
- All the turnstile functions are controlled only through the MDD 168 drive electronics.
- The electronics of the MDD168 drive is not configurable - adjustable to the customer's requirements.
- It is only possible to control the turnstile by status signals.
- It is not possible to control the turnstile using the RS485 communication line.



The BASIC versions of BAR ONE turnstiles do not support the following devices and functions.

- **Unsupported control devices:**
 - Touch Panel
 - Easy Touch
 - T-MON Software
- **Unsupported optical signalization devices:**
 - Access Light
 - Lane Light -Direction
 - Digital Lane Light – Direction
 - Wav player
- **Unsupported acoustic signalization devices:**
 - Buzzer of the BUSY acoustic signalization – release of the turnstile
 - Buzzer of the acoustic alarm of an unauthorized passage attempt
 - Wav player
- **Unsupported functions:**
 - Attempt for an unauthorized passage
 - Confirmation of person passing through
 - Signalization of error states
 - Malfunction diagnostics
 - Antipassback
- **Unsupported equipment:**
 - Sensors for climbing over and crawling under
 - Superior systems REA by COMINFO

8. DESCRIPTION OF CONTROLLING THE TURNSTILE BY STATUS SIGNALS

8.1. INPUT CONTROL SIGNALS

8.1.1. Description of the input control signals function

- **INL input** - the input activates single or permanent passage by the turnstile in the INL direction.
- **INR input** - the input activates single or permanent passage by the turnstile in the INR direction.
- **ON/OFF input** - input must be activated when controlling the signals connected to INL, INR inputs.
- **EMGI inputs** - inputs for controlling the EMERGENCY function by the EPS system.



By default, the **ON/OFF** input is permanently activated by a wire connected to the **GND**. If it is necessary to control the **ON/OFF** function by the superior system by using status signals, it is necessary to cancel this connection.

8.1.2. Lengths of input control signals

Name of the Input Signal	Single Passage	Permanently released passage
INL	>100ms <2000ms) ¹	>2000ms
INR	>100ms <2000ms) ¹	>2000ms
ON/OFF	FOR THE DURATION OF THE INPUT ACTIVATION	
PANIC/EMERGENCY	FOR THE DURATION OF THE INPUT ACTIVATION	

)¹ - Recommended length of the input signal for a single passage is 1000ms

8.2. OUTPUT CONTROL SIGNALS

8.2.1. Description of the output control signal function



The **BASIC** version of the **BAR ONE** turnstile disposes by only one output signal.

- **BUSY** - signal for the superior system informing about released or ongoing passage

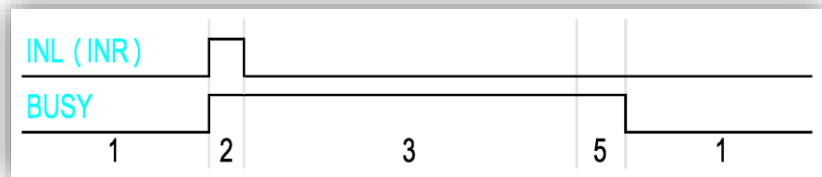
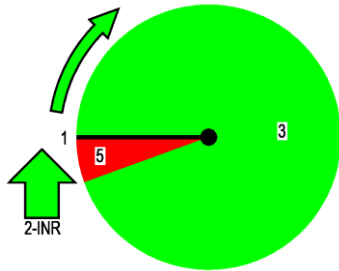
The **BUSY** signal is a transistor output which switches the **GND** potential with permissible current load of 500mA.

8.2.2. Length of the output control signal:

Name of the Output Signal	Signal Duration
BUSY	FOR THE DURATION OF PASSAGE

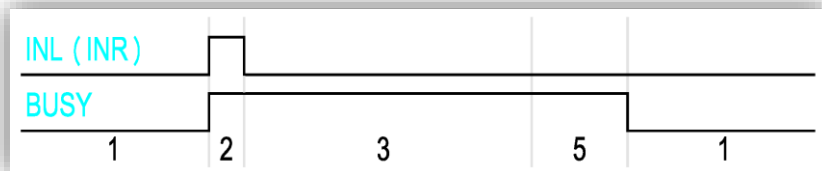
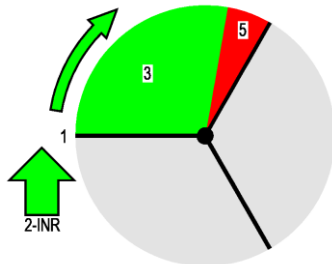
8.3. PASSAGE SIGNALS TIMING DIAGRAMS

8.3.1. Timing diagram - BAR-ONE-Unipod



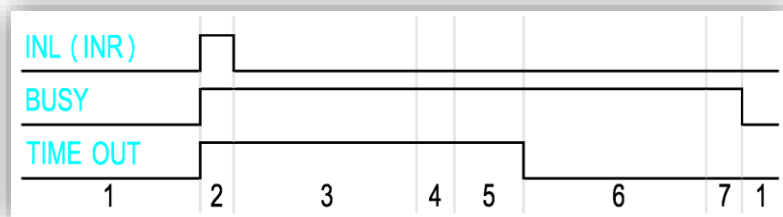
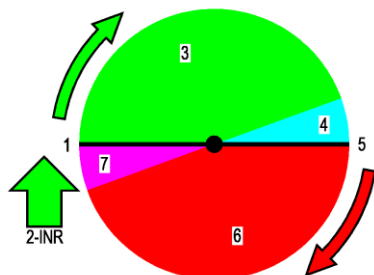
1. Home position – device is waiting for passage permission (INL, INR input activation)
2. Input activation - passage permitted
3. Phase of the passage - person in the corridor
5. Phase of finishing to the home position (complete 360° rotation)

8.3.2. Timing diagram - BAR-ONE-Tripod



1. Home position – device is waiting for passage permission (INL, INR input activation)
2. Input activation - passage permitted
3. Phase of the passage - person in the corridor
5. Phase of finishing to the home position (complete 120° rotation)

8.3.3. Timing diagram - BAR-ONE-Gate



1. Home position – device is waiting for passage permission (INL, INR input activation)
2. Input activation - passage permitted
3. Opening of the turnstile phase
4. Turnstile slowly finishing to open position phase
5. Turnstile in open position (180° rotation) - the device is waiting for the Time-out finish
6. Closing of the turnstile phase
7. Phase of finishing to the home position (complete 360° rotation)

9. DESCRIPTION OF REMOTE CONTROLLING OF THE TURNSTILE

- The BAR ONE BASIC turnstiles can be controlled only by status signals.
- The turnstiles are not intended for remote controlling by the COMINFO products.
- The turnstile is intended for an easy controlling from a supervising station such as reception.

10. TURNSTILE POWER SUPPLY



Internal power supply of the turnstiles is not intended for external devices (third party devices), unless it is specified in the project documentation and this device is installed directly by the manufacturer.

10.1. CONNECTION OF EXTERNAL 13.8VDC POWER SUPPLY

- The manufacturer does not recommend to power the turnstile by an external 13.8V power supply due to voltage drop.
- Using 13.8V is only acceptable for protection against electric shock in areas that require it.
- When powering the turnstile by an external 13.8V power supply, it must meet following conditions:



THE POWER SUPPLY UNIT MUST COMPLY WITH THE REQUIREMENTS OF THE SELV POWER NETWORK.

THE POWER SUPPLY MUST BE DIMENSIONED ACCORDING TO THE CHAPTER POWER INPUT OF THE TURNSTILE.

THE POWER SUPPLY MUST HAVE OVERLOAD PROTECTION, BY LIMITING THE CURRENT (NOT BY SHUTTING DOWN THE LOAD)

- The cross-section of the power supply cables, depending on their length, must be chosen so the voltage will not drop below 13V during maximal power consumption of the turnstile, while the power supply is powered from mains.



WE RECOMMEND TO CONSULT THE MAUFACTURER COMINFO WHEN USING THE 13.8V EXTERNAL POWER SUPPLY

10.2. CONNECTION OF THE EXTERNAL POWER SUPPLY 24VAC/50-60Hz

- The turnstile may be delivered in a version for 24VAC external power supply (transformer 230VAC/24VAC) placed outside of the turnstile.



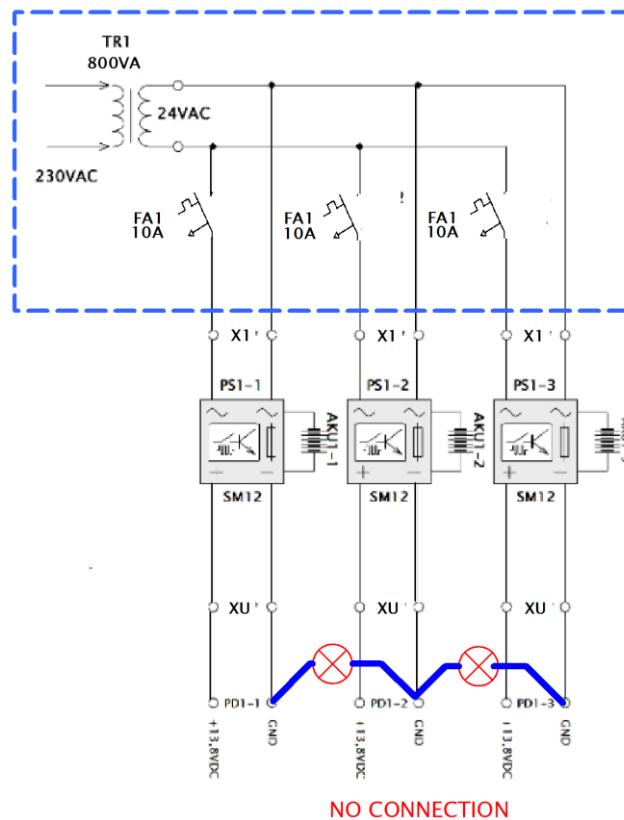
THE TRANSFORMER MUST COMPLY WITH THE REQUIREMENTS OF THE SELV POWER NETWORK

THE TRANSFORMER MUST BE DIMENSIONED ACCORDING TO THE CHAPTER POWER INPUT OF THE TURNSTILE.

EACH TURNSTILE MUST HAVE ITS SEPARATE CIRCUIT BREAKER, DESCRIBED IN THE FOLLOWING CHAPTERS

- 24VAC from the external power supply is connected to the main turnstile terminal X1.
- Connection of the power supply circuit breaker elements and connection of the turnstile control must unconditionally meet the conditions described in the following chapters.

10.2.1. Connection with single-pole protection.



In case of a failure, unipolar disconnection from the SM12 power supply takes place.

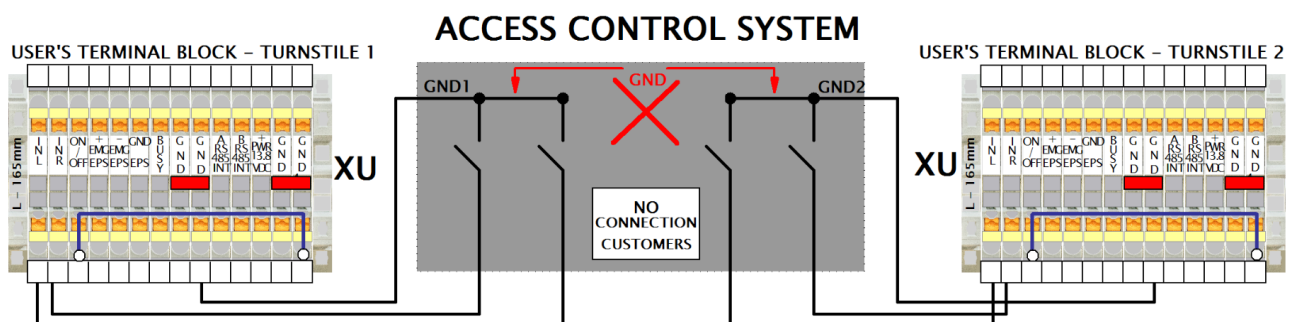
In case of single-pole protection, power sources may not be set under the same GND potential.

When a single-pole is shut down, the turnstile is still powered from power supplies of other turnstiles through common GND potential.

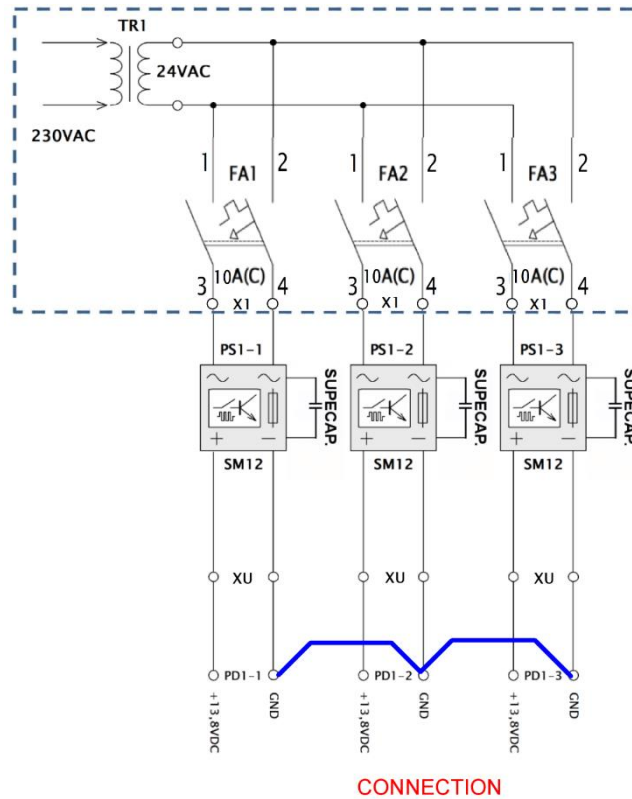
The failure of one turnstile can cause the failure of all turnstiles that are connected to a common GND potential.

- Single-pole protection may be used only when powering a single turnstile.
- When powering multiple turnstiles from one transformer, common GND potential must not be used for control.
- The superior system must control turnstile by means of a relay with independent contacts in a way so that each turnstile is controlled by a GND system from its own SM12 power supply.

Example of connection of superior system without common GND potential:



10.2.2. Connection with double-pole protection.



In case of a failure, both poles of SM12 power supply will disconnect and the turnstile will be completely disconnected from the common supply transformer.

In case of double-pole protection, power sources can be set under the same potential

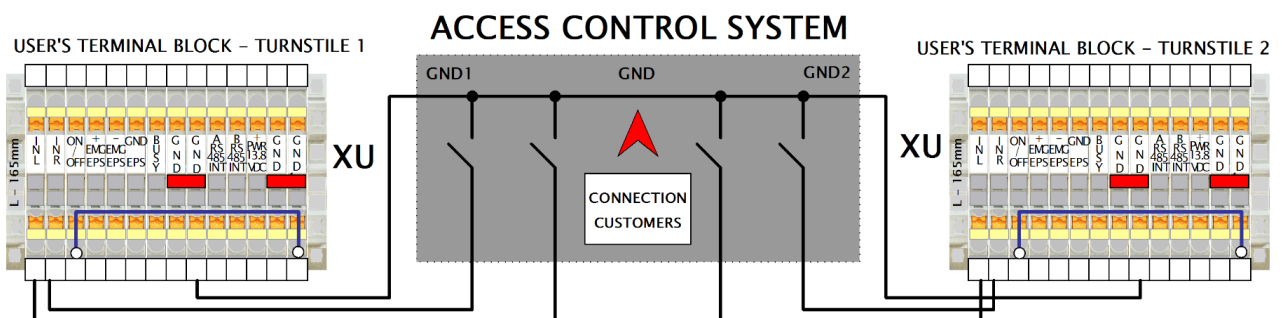
- It is necessary to use double-pole protection when powering multiple turnstiles from one transformer while controlling with common GND potential.



IN CASE OF DOUBLE-POLE PROTECTION YOU CANNOT USE TWO SINGLE-MODULE CIRCUIT BREAKERS

- Two interconnected double-module circuit breakers must be used, which will ensure that when one of them is shut down, the other will be shut down as well.

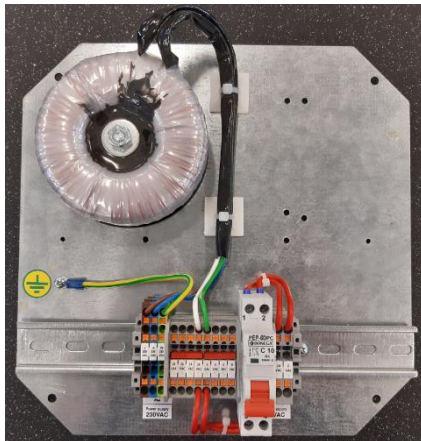
Example of connection of superior system with common GND potential:



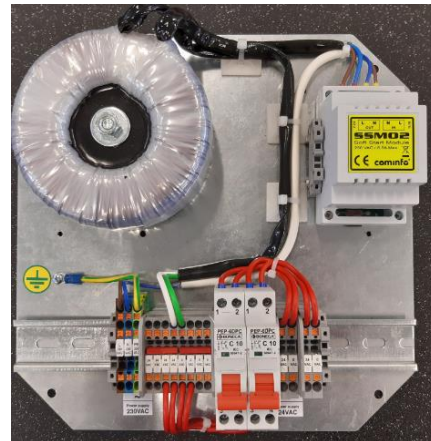
10.2.3. External 230VAC/24VAC power supplies provided by the manufacturer COMINFO

- COMINFO provides custom-made 230VAC/24VAC power supplies TRAFOCASE.
- The power supplies are installed in an IP67 plastic box and are designed for installation into a turnstile or a set of turnstiles.
- They contain a high-quality 230VAC/24VAC toroidal transformer of the required power.
- When you are powering two and more turnstiles, the power supplies are equipped with a SOFT START MODULE that ensures problem-free connection to the mains by limiting the current surge on initiation.
- The power supplies are equipped by a single-module double-pole DPC type circuit breakers and a connection terminal.
- Following figures show the baseplates of standard TRAFOCASE power supplies.

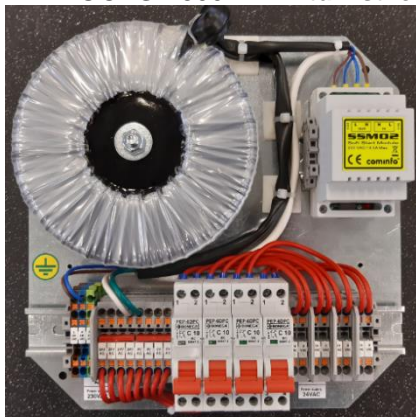
TRAFOCASE 200VA - 1 turnstile



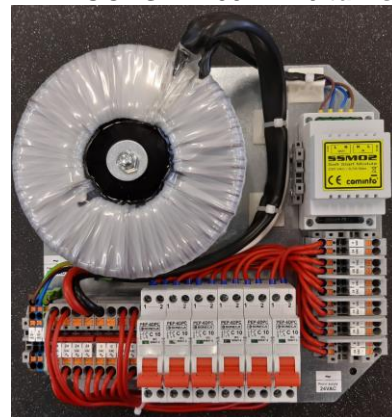
TRAFOCASE 400VA - 2 turnstiles



TRAFOCASE 800VA - 4 turnstiles



TRAFOCASE 1200VA - 6 turnstiles



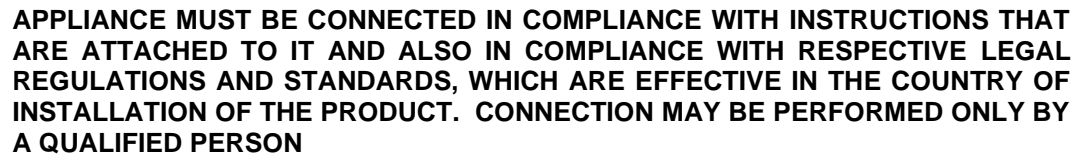
When powering multiple turnstiles by one power supply, the manufacturer recommends to use exclusively the TRAFOCASE power supplies by COMINFO.

When using TRAFOCASE, the manufacturer guarantees trouble-free operation not only in terms of the protection system, but also in terms of circuit breaker selectivity, dimensioning of supply cables and transformer.

Incorrectly designed power supplies including protection and dimensioning are the most frequent cause of problems during the installation of the turnstiles and putting them into full operation mode.

The subsequent cost of troubleshooting and removing malfunctions is several times more expensive than using high-quality and properly designed TRAFOCASE units.

0.3.



- CZ: ČSN 33 2000 – 4 – 41 ed.2, ČSN 33 2000-7-706 ed.2, ČSN EN 62305-1 až 4, ČSN 34 0350, ČSN 33 2180
- D: DIN VDE 0100-410 Abschnitt 413
- EU: IEC 60364-4-41



10.4. POWER INPUT OF THE TURNSTILE

Table of maximum power input values during the operation of BAR ONE BASIC turnstile

Process	POWER INPUT [VA]	Note
Maximum consumption during a passage through the turnstile	207	For one passage (one drive unit)
Idle state of a Unipod and Gate turnstile versions	18	Locked in home position
Idle state of a Tripod turnstile version	1.5	Unlocked in home position

11. COMPLETE WIRING DIAGRAM

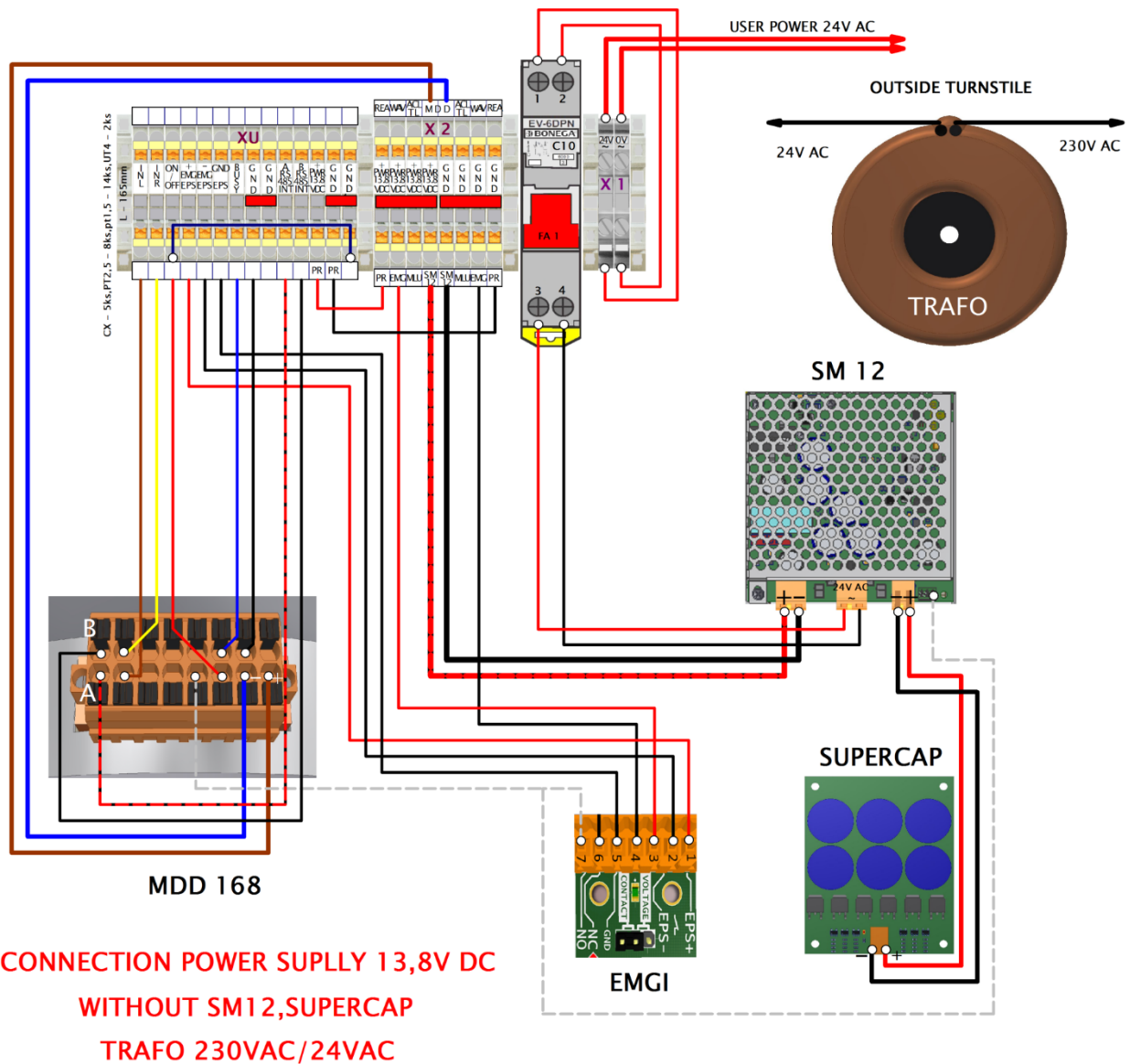


You can get detailed cable diagram after logging-in on our website www.extranet.cominfo.cz.

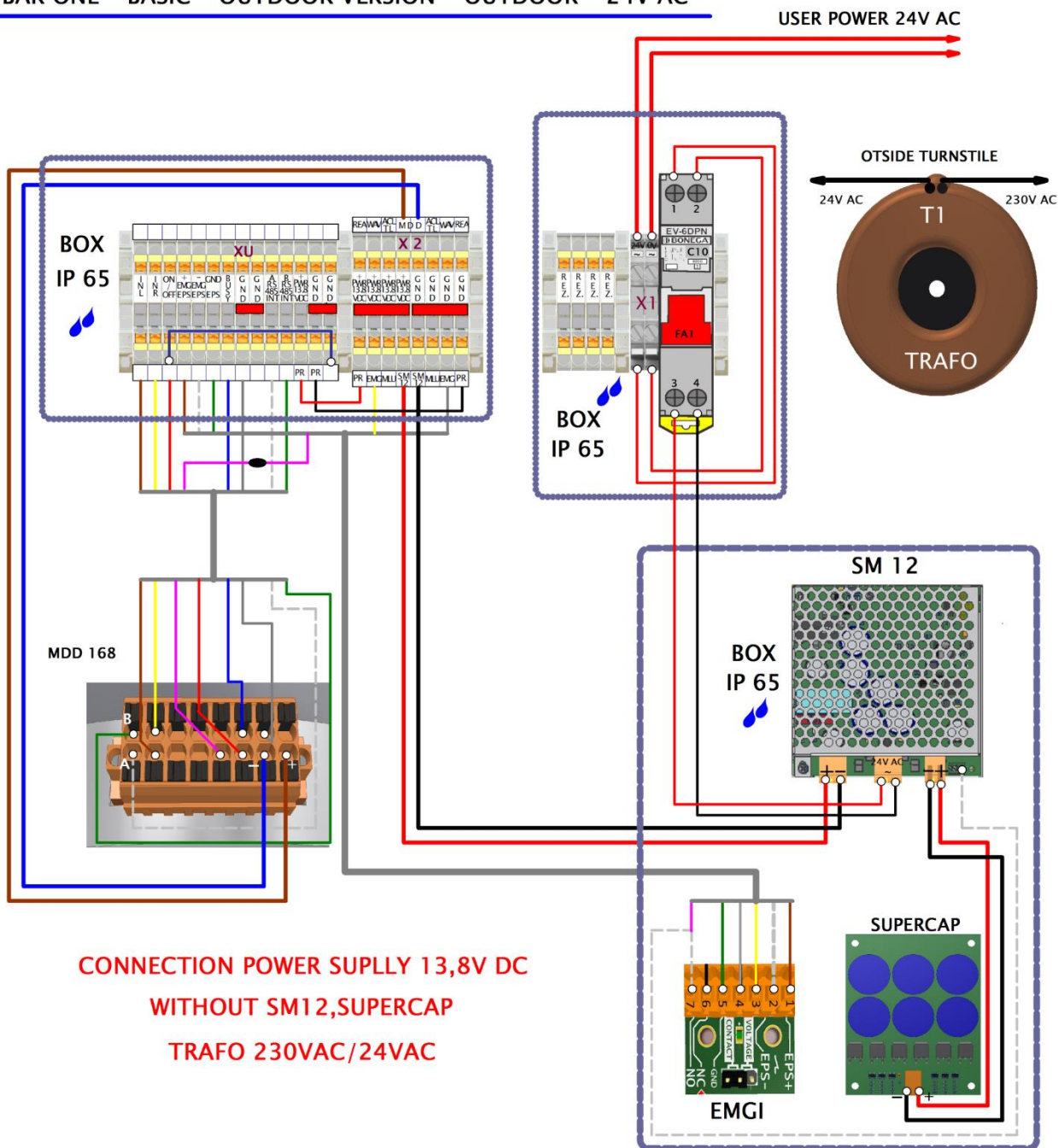
11.1. CAPTIONS TO THE DIAGRAMS

EMGI	- Electronics for the EMERGENCY signal evaluation (Emergency Input)
MDD168	- Connector for the MDD 168 drive unit with integrated control electronics
T1	- 230V/24V – 200VA toroidal transformer located inside the turnstile
TRAFO	- 24VAC external power transformer
X1	- 13.8 VDC, 24VAC or 230VAC main power terminal
X2	- Internal connection terminal
XU	- User connection terminal
PE	- Turnstile earthing terminal
FA1	- A double-pole DPC circuit breaker with 24VAC power supply
	- A single-pole circuit breaker with 230VAC power supply
SM12	- SM12 (24VAC/13.8VDC) power supply
SUPERCAP	- Supercapacitors for SM12
IP65 BOX	- Plastic boxes of required protection level for the outdoor version of the turnstile

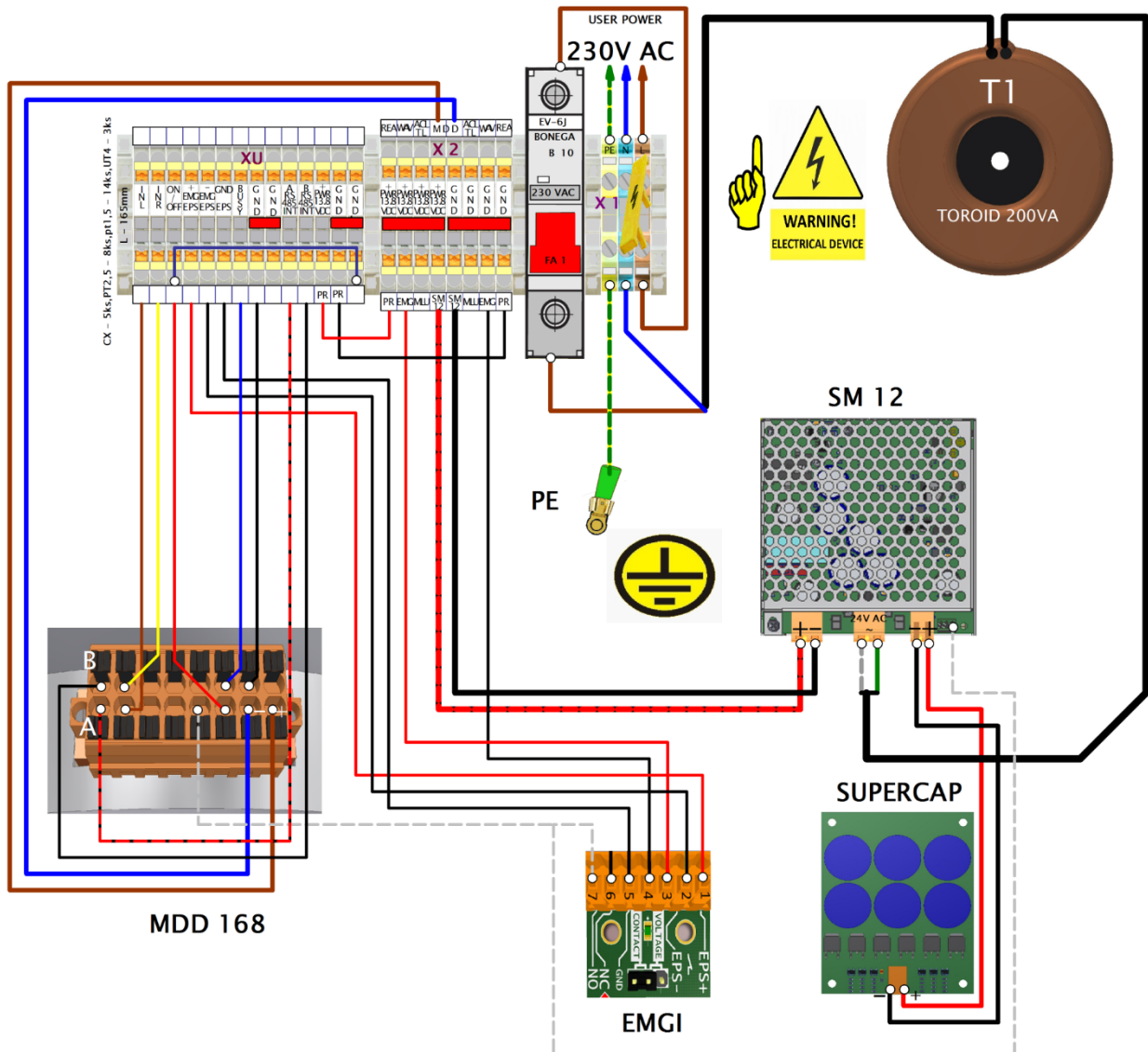
11.2. 24VAC POWER SUPPLY – INDOOR



BAR ONE – BASIC – OUTDOOR VERSION – OUTDOOR – 24V AC



11.4. 230VAC POWER SUPPLY – INDOOR



BAR ONE – BASIC – OUTDOOR VERSION – OUTDOOR – 230V AC



12. TROUBLESHOOTING



Malfunction occurrences and possible causes are described in the *Troubleshooting* section of the operating instructions.

The BASIC version of the turnstile does not have any malfunction diagnostics.

If the turnstile is equipped with SM2 backup power supply and SUPERCAPACITORS, it is only possible to check if the supply voltage is connected through the green LEDs.

12.1. CHECKING THE MDD168 MOTOR DRIVE UNIT

12.1.1. Checking the free rotation of the drive

- Always perform the check with the supply voltage of the turnstile turned off.
- The gate must be very easily and freely rotatable without any sounds of seizing.
- Seizing might occur after extreme stress caused during an attempt for unauthorized passage, or vandalism.
- After extreme stress on the gate, the permanent magnets might shift and cause jamming, or brake may get damaged.
- If you notice even the slightest jamming, it is necessary to send the drive back to the manufacturer COMINFO for a repair.

12.1.2. Checking the electromagnetic brake

- The brake is an internal part of the MDD168 motor drive.
- The brake is controlled by the MDD168 electronics.
- The winding of the brake cannot be measured or the brake cannot be tested other way than in the regular operational state of the turnstile.
- Perform the check with turned on power supply in operational state of the turnstile.
- The Tripod turnstile has its brake released in home position.
 - The brake must lock when the gate is manually turned.
- The Unipod and Gate turnstiles have locked brakes in home position.
 - the gate must not turn when pushed
 - after unblocking by control signal, the brake must release and enable passage
 - when you turn the gate in the opposite direction by hand, the brake must lock

12.1.3. Setting the home position of the rotary gate

- In its home position, the bar arm of the rotary gate must be perpendicular to the turnstile cabinet.
- The home position must be checked or adjusted during the installation of the turnstile.
- It is always necessary to adjust the home position when replacing the drive.
- Setting the gate home position is done through the TCONF application in the drive configuration.
- Connect the computer through the converter on the XU terminal to the internal communication line DATA INT
- After the application starts-up, the drive electronics shows up as *MDD/Motor driver* with an address 193 as show on the following figure.



- By clicking the *Config* button, the MDD168 drive configuration shows up, it includes a parameter for activation of the *Manual basic position setting* mode and *Basic position* numeric parameter.

Parametr name	Choice values
Initialization	Initialized
F1	(0 - 0xFFFFFFFF)
F2	(0 - 0xFFFFFFFF)
F3	(0 - 0xFFFFFFFF)
HardFault	(0 - 0xFFFFFFFF)
Kpr	0 - 0xFFFF
Maximal speed	0 - 0xFFFF
Speed curve	Curve (20x101x100)
Manual basic position setting	Basic position is set
Basic position encoder value	Change basic position
Angle SIN diff	Basic position is set
Basic position correction	-2000 - 2000

- In the *Manual basic position setting* parameter field click the arrow to reveal the change selection.

Choice values	Value
Initialized	Initialized
(0 - 0xFFFFFFFF)	29810
(0 - 0xFFFFFFFF)	28571
(0 - 0xFFFFFFFF)	27349
(0 - 0xFFFFFFFF)	0
0 - 0xFFFF	12
0 - 0xFFFF	800
Curve (20x101x100)	10, 110, 221, 16, 1001, 144, 1001, 152, 951, 162, 841, 173, 641, 189, 151, 194, 51, 198, 21, 1101, 011...
Basic position is set	Basic position is set
Change basic position	3510
Basic position is set	22378
-2000 - 2000	0

- Change the *Basic position is set* value to *Change basic position*.
(the window with the value is backlit red until the end of the process of setting the home position)

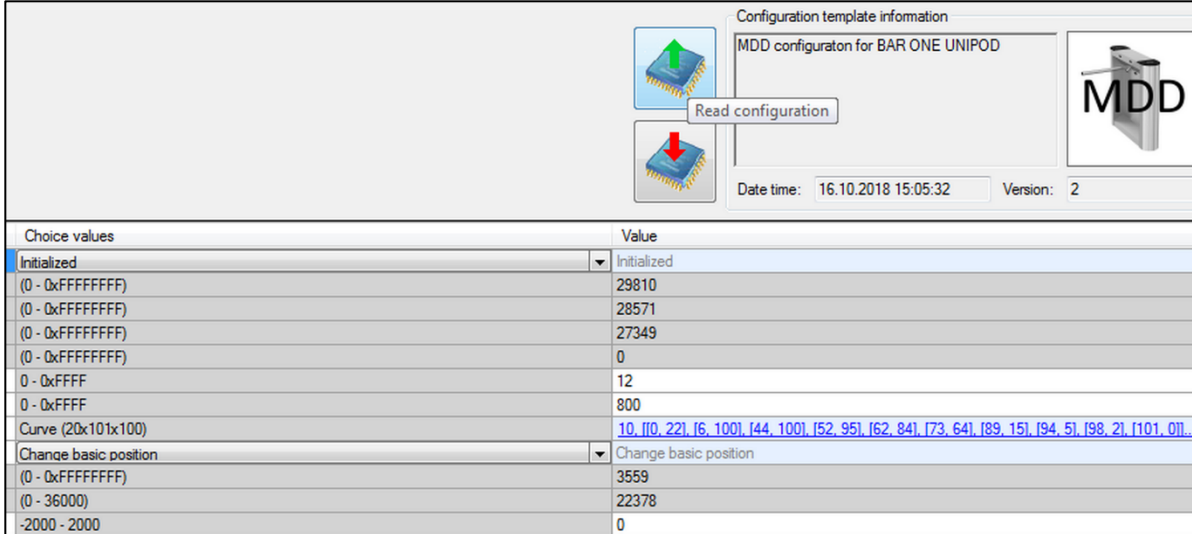
Choice values	Value
Initialized	Initialized
(0 - 0xFFFFFFFF)	29810
(0 - 0xFFFFFFFF)	28571
(0 - 0xFFFFFFFF)	27349
(0 - 0xFFFFFFFF)	0
0 - 0xFFFF	12
0 - 0xFFFF	800
Curve (20x101x100)	10, 110, 221, 16, 1001, 144, 1001, 152, 951, 162, 841, 173, 641, 189, 151, 194, 51, 198, 21, 1101, 011...
Change basic position	Change basic position
(0 - 0xFFFFFFFF)	3510
(0 - 36000)	22378
-2000 - 2000	0

- By clicking the button with red arrow-*Write configuration* activate the *Manual basic position setting* mode.

Choice values	Value
Initialized	Initialized
(0 - 0xFFFFFFFF)	29810
(0 - 0xFFFFFFFF)	28571
(0 - 0xFFFFFFFF)	27349
(0 - 0xFFFFFFFF)	0
0 - 0xFFFF	12
0 - 0xFFFF	800
Curve (20x101x100)	10, 110, 221, 16, 1001, 144, 1001, 152, 951, 162, 841, 173, 641, 189, 151, 194, 51, 198, 21, 1101, 011...
Change basic position	Change basic position
(0 - 0xFFFFFFFF)	3510
(0 - 36000)	22378
-2000 - 2000	0

- In case of the Unipod and Gate turnstiles, the brake will release and the gate lowers to the bottom position. In case of manual setting, we turn the gate to the desired home position, where we have to hold it.
- In case of Tripod turnstiles, the gate is freely rotatable when in mode of manual setting of the home position. In case of manual setting, we just slightly turn the gate to the desired home position.

- By clicking the button with green arrow-*Read basic position configuration* you will load new numeric values of the home position (value 3461 was changed to 3538).



Configuration template information
MDD configurator for BAR ONE UNIPOD

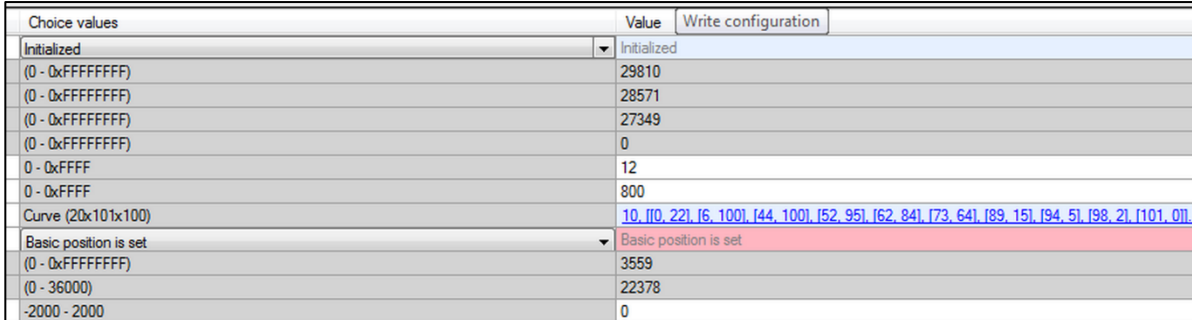
Date time: 16.10.2018 15:05:32 Version: 2

Choice values	Value
Initialized	Initialized
(0 - 0xFFFFFFFF)	29810
(0 - 0xFFFFFFFF)	28571
(0 - 0xFFFFFFFF)	27349
(0 - 0xFFFFFFFF)	0
0 - 0xFFFF	12
0 - 0xFFFF	800
Curve (20x101x100)	10, 110, 221, 16, 1001, 144, 1001, 152, 951, 162, 841, 173, 641, 189, 151, 194, 51, 198, 21, 1101, 011
Change basic position	Change basic position
(0 - 0xFFFFFFFF)	3559
(0 - 36000)	22378
-2000 - 2000	0



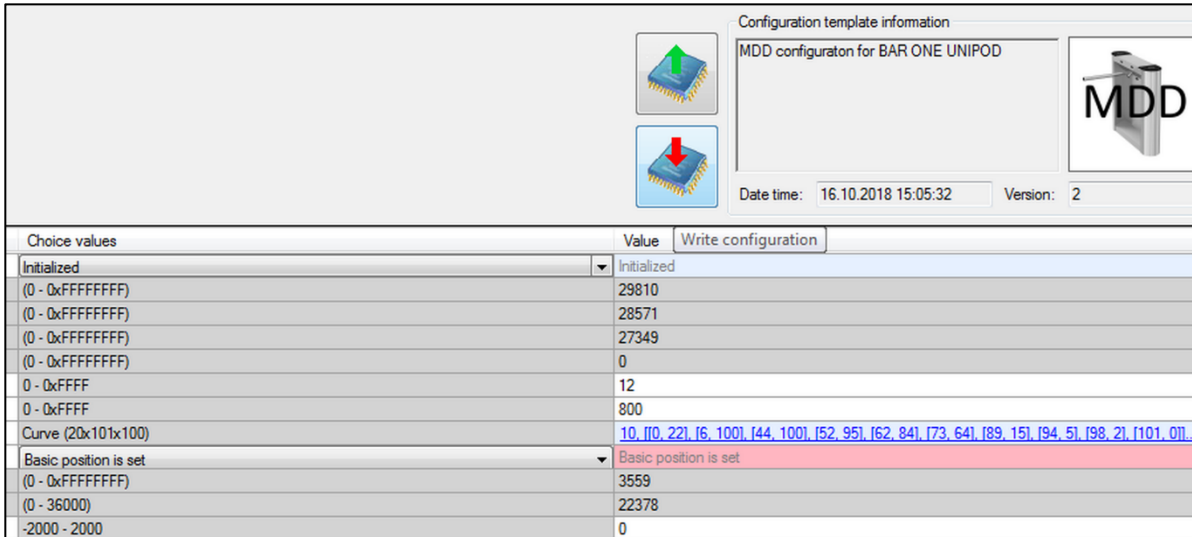
Setting of the new home position is not finished and saved by loading the numeric value!

- Change the *Change basic position* value to *Basic position is set*.



Choice values	Value	Write configuration
Initialized	Initialized	
(0 - 0xFFFFFFFF)	29810	
(0 - 0xFFFFFFFF)	28571	
(0 - 0xFFFFFFFF)	27349	
(0 - 0xFFFFFFFF)	0	
0 - 0xFFFF	12	
0 - 0xFFFF	800	
Curve (20x101x100)	10, 110, 221, 16, 1001, 144, 1001, 152, 951, 162, 841, 173, 641, 189, 151, 194, 51, 198, 21, 1101, 011	
Basic position is set	Basic position is set	
(0 - 0xFFFFFFFF)	3559	
(0 - 36000)	22378	
-2000 - 2000	0	

- By clicking the button with red arrow-*Write configuration*, save the parameters of new home position that were set and end the *Manual basic position setting mode*.



Configuration template information
MDD configurator for BAR ONE UNIPOD

Date time: 16.10.2018 15:05:32 Version: 2

Choice values	Value	Write configuration
Initialized	Initialized	
(0 - 0xFFFFFFFF)	29810	
(0 - 0xFFFFFFFF)	28571	
(0 - 0xFFFFFFFF)	27349	
(0 - 0xFFFFFFFF)	0	
0 - 0xFFFF	12	
0 - 0xFFFF	800	
Curve (20x101x100)	10, 110, 221, 16, 1001, 144, 1001, 152, 951, 162, 841, 173, 641, 189, 151, 194, 51, 198, 21, 1101, 011	
Basic position is set	Basic position is set	
(0 - 0xFFFFFFFF)	3559	
(0 - 36000)	22378	
-2000 - 2000	0	

12.2. CHANGING THE FIRMWARE OF THE MDD168 DRIVE ELECTRONICS

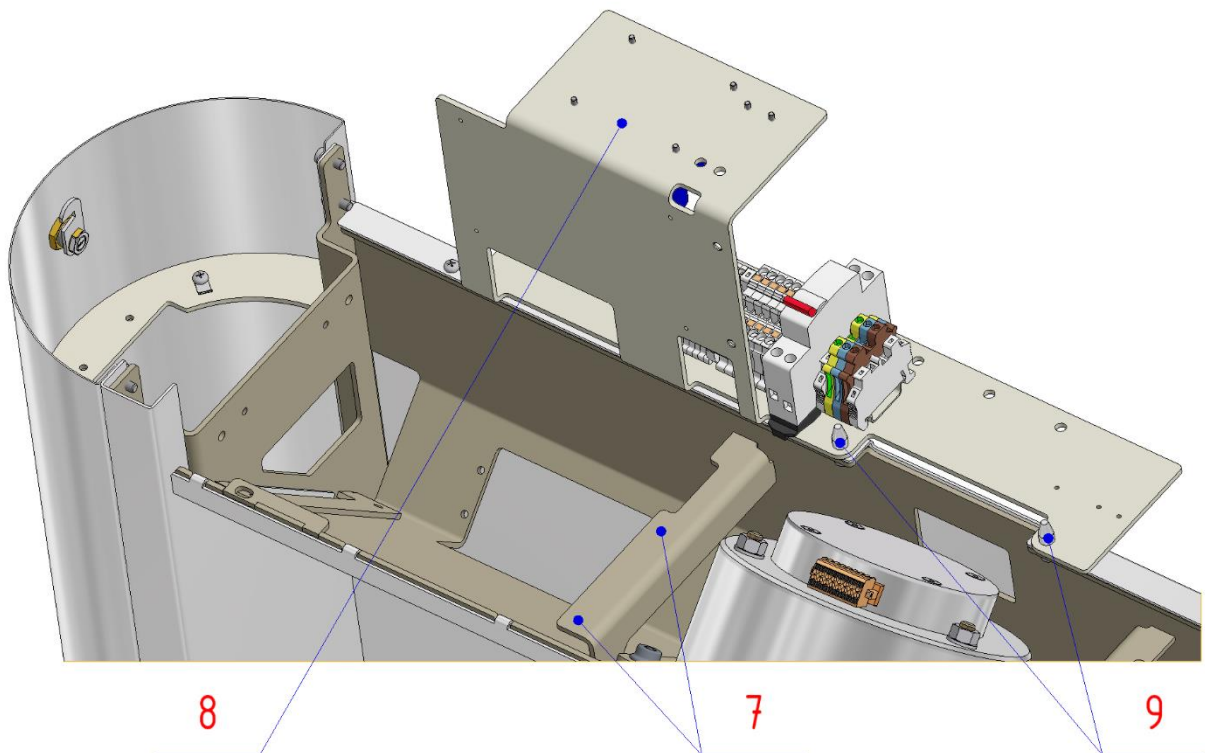


Firmware may only be changed after consulting the manufacturer.

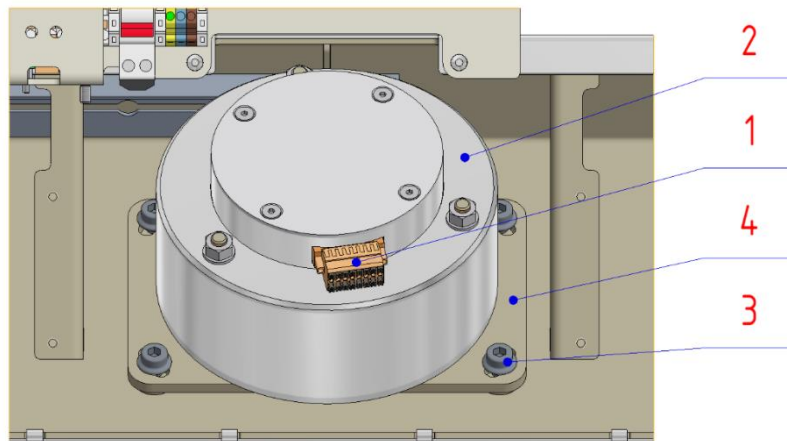
- Connect the computer to the internal communication line according to the chapter *Connection of the RS485 communication line*.
- Firmware can be changed using the TCONF application.
- **The Unipod, Tripod and Gate types of turnstiles have different drive electronics firmware.**
(the MDD drive cannot be used in different type of turnstile without changing the firmware).

12.3. REPLACING THE MDD168 MOTOR DRIVE UNIT

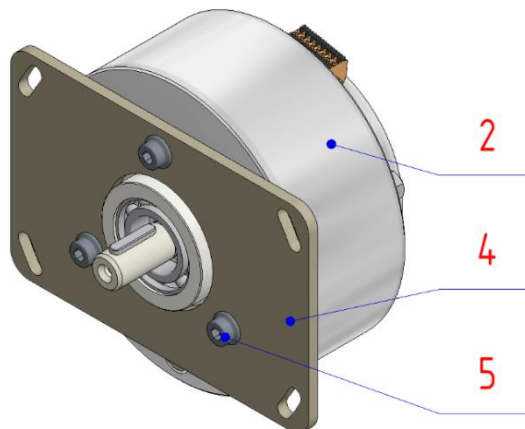
- New drive unit must have the appropriate firmware of the Unipod, Tripod and Gate version of the turnstile.
- Remove the top cover according to the chapter *How to access the anchoring holes and motor drive unit with control electronics*.
- Dismount the rotary gate according to the chapter *Dismantling the rotary gate*.
- In case of an INDOOR version, remove the two M5x12 bolts (Pos.7) and place the plate (Pos.8) with terminals on the auxiliary pins (Pos.9).



- Disconnect the connector (Pos.1) on the MDD168 drive (Pos.2).



- Remove the four RIPP M8x16 bolts with a washer (Pos.3).
- Now you can remove the drive (Pos.2) with the flange (Pos.4) from the turnstile.
- Remove the three RIPP M8x16 bolts (Pos.5) and replace the MDD168 drive (Pos.2).



- After replacing the drive unit, it is necessary to adjust the home position according to the chapter *Setting the home position of the rotary gate*.
- The grooves in the flange (Pos.4) serve for final mechanical adjustment of the home position.

12.4. PROTOCOL OF THE PRESCRIBED INSPECTION IN CASE OF TURNSTILE MALFUNCTION

The following table describes individual operations, which must be provably performed by the service technician of your dealer. By performing these operations and completing them by the required information, the manufacturer gains important information for the malfunction analysis. This protocol along with the confirmation of completion of the prescribed operations supplemented by the required information must be sent to the manufacturer as soon as possible including the claim report form and video recording of the malfunction.

Operation No.	Service technician operation	Operation description	Confirmation of operation completion
1	Fill in the claim report form and send it to the manufacturer	The claim report form is part of the Installation Instructions. Fill in the serial numbers and describe the malfunction in detail.	<input type="checkbox"/>
2	Send information regarding the turnstile power supply	<ul style="list-style-type: none"> - external power supply voltage - length and cross-section of the input cabling - type of power supply - number of powered turnstiles - method of protection/control in case of 24VAC power supply, according to chapter <i>Turnstile power supply</i> 	<input type="checkbox"/>
3	Send a video recording of the malfunction manifestation	In the AVI format	<input type="checkbox"/>
4	Check correct connection	Perform inspection of the inner connection and connection of control input and output signals of the superior system according to the Installation Instructions.	<input type="checkbox"/>
5	Check the control signal length	Length of control signal ms	<input type="checkbox"/>
6	Check the wiring	Check all the connectors by pulling the wires plus tightening of screw clamps.	<input type="checkbox"/>
7	Checking the free rotation of the drive	Perform inspection according the chapter <i>Checking the motor drive unit</i>	<input type="checkbox"/>
8	Checking the electromagnetic brake	Perform inspection according the chapter <i>Checking the motor drive unit</i>	<input type="checkbox"/>
9	Check the supply voltage in an idle state of the turnstile	Supply voltage V	<input type="checkbox"/>
10	Check the voltage drop during passage	Stop the gate during passage and measure the voltage drop. Supply voltage drop V	<input type="checkbox"/>
11	Checking the function	Disconnect the superior system and verify the turnstile functions by connecting the GND signals to individual control inputs.	<input type="checkbox"/>
12	Upload current firmware After consulting the manufacturer	Uploaded firmware (for example MPB4v4.BAU.B1.1076)	<input type="checkbox"/>



For quick removal of your turnstile's malfunction, it is necessary to fill out the ***Claim Report Form*** when contacting the Service Department of the COMINFO Company. The report should indicate serial number of the turnstile in compliance with the production label, and a description of the malfunction. Along with the completed form, send a video which clearly shows the occurring malfunction and LED signalization of the electronics state. You can find the ***Claim Report Form*** at the end of this manual.

Cominfo, a.s.
Nábřeží 695
760 01 Zlín – Prštné
Czech Republic

Hotline: +420 603 151 334
e-mail: cominfo@cominfo.cz

EXAMPLE - CLAIM REPORT FORM

Product label information:

Name – type:

BAR-ONE-BASIC- Unipod

Serial number:

0	6	0	2	1	2	3	4	5	6
---	---	---	---	---	---	---	---	---	---

Your request:

1. *Turnstile sometimes does not reach the home position and must be turned manually.*
2. *Two BAR type turnstiles are connected to a 24V/200VA transformer.
With single-pole protection without control on the common GND potential.
Turnstile is supplied by 10m cable with 2.5mm cross-section.*
3. *The attached video shows the passage with manual turning of the gate.*
4. *Connection check OK*
5. *Control signal from the superior system 500ms*
6. *Wiring OK*
7. *Without voltage the turnstile gate freely rotates without signs of jamming.*
8. *The electromagnetic brake is locked in the home position and releases during passage.*
9. *In idle state, the supply voltage on terminal X1 was measured 24V*
10. *During the passage after the gate stops the voltage dropped to 23V*
11. *The malfunction irregularly occurs even with direct control by the GND signal connected to the control inputs.*
12. *Recommended firmware MPB4v4.1076 uploaded. The malfunction remains*

Customer:

Company Ltd

Address:

11 Business Park, London SW12 9RT, United Kingdom

Contact person:

Jack Smith

Telephone:

4420 7777 7777

E-mail:

jack@company.com

Date:


2.12.2021

Product label information:

--

[illegible]

Your request:



--

--
