

WAIST HEIGHT TURNSTILE

INSTALLATION AND MAINTENANCE HANDBOOK

WARRANTY CERTIFICATE

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1. GENERAL INFORMATION

MANUFACTURER:

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1.1 Preface

Thank you for choosing the products of **Özak** and your confidence in our company.

Your system has been designed and manufactured to meet the most demanding requirements of professional access control applications. All components of your system have been selected with utmost care and thoroughly tested to ensure optimal performance and reliability.

To safely operate your product with maximum performance and service life please follow the instructions written in this manual carefully, and keep it for future reference. In case of any operational questions or unexpected issues please refer to the explanations contained in this document.

To obtain technical support or replacement parts please contact Özak Technical Service Department by E-mail or telephone.

Özak Technical Service Department:

Telephone : +90 262 373 48 48 **Ext:** 1301-1304

E-mail : support@ozak-t.com

Özak reserves the right to change the contents of this document without prior notice!

1.2 General Information on Turnstiles

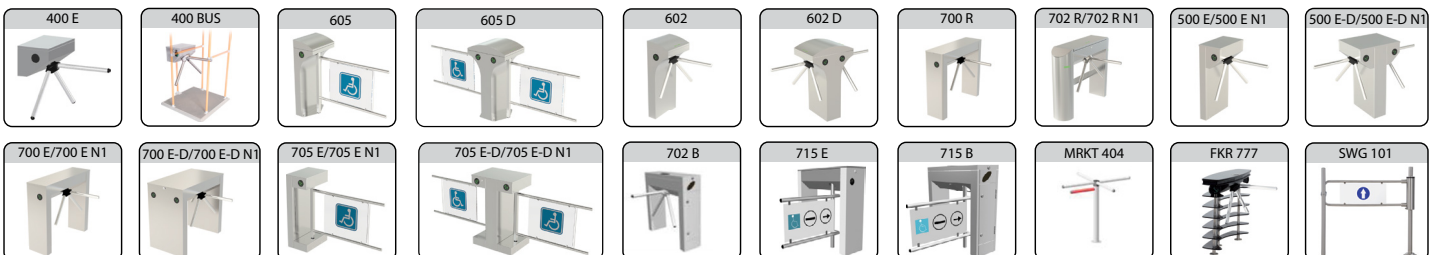
Turnstiles are devices that enable passage control and prevent uncontrolled or unauthorized passages in stadiums, sports halls, leisure facilities, business centers, public transportation areas, museums, banks, industrial facilities and all premises where collective entrance and exit control are required.

As passage controlling units, turnstiles have the ability to work with any type of access control system such as barcode, magnetic card, proximity card readers, tokens, buttons etc. With the exception of disabled wide-access panel models, only "one person at a time" philosophy is adopted for all turnstile products. The turnstiles are designed for bi-directional operation while allowing simple mode selection by a dip switch for restricted or one way free passage.

The turnstiles are made of stainless steel or electrostatic powder coated DKP sheet metal. In double-sided models, two separate passage systems are integrated into a single structure. As the turnstiles are anchored on a wide surface area, the overall structure is firmly balanced and robust. Due to their structural characteristics, turnstiles are not affected by rain, water, or similar outdoor conditions. All mechanical components are galvanized for protection against corrosion.

Our turnstiles are certified with "TSEK product quality" (A Turkish certification of quality) and CE Declaration of Conformity.

1.3 Waist Height Turnstile Models

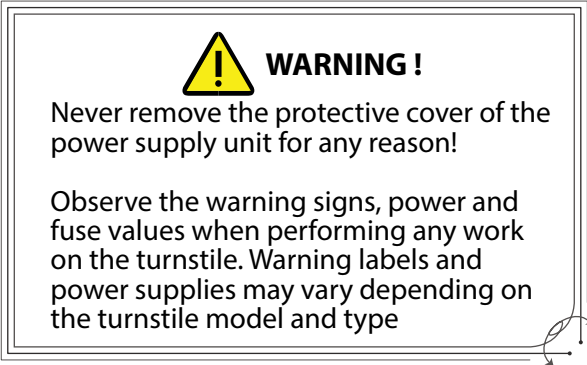
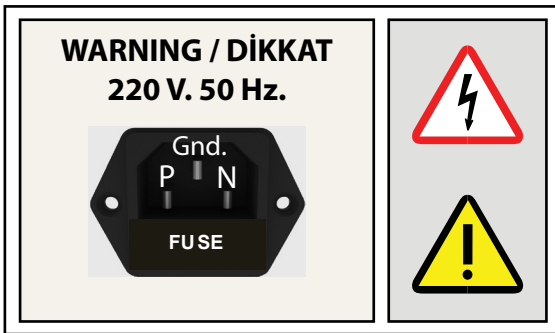


2. SAFETY AND OPERATION

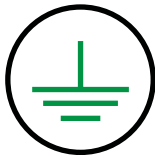
2.1 Safety Warnings and Symbols

For Safety and proper operation of the turnstile, all installation and repair work must be performed by qualified technical personnel only!

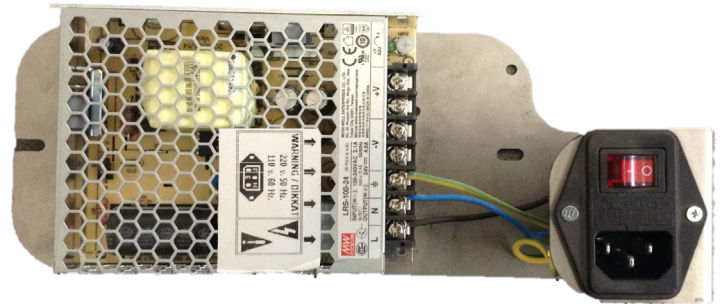
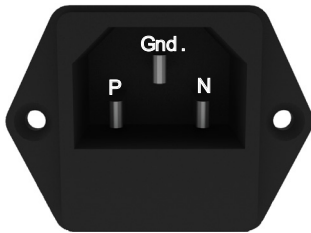
HIGH VOLTAGE WARNING LABEL



GROUNDING SYMBOL




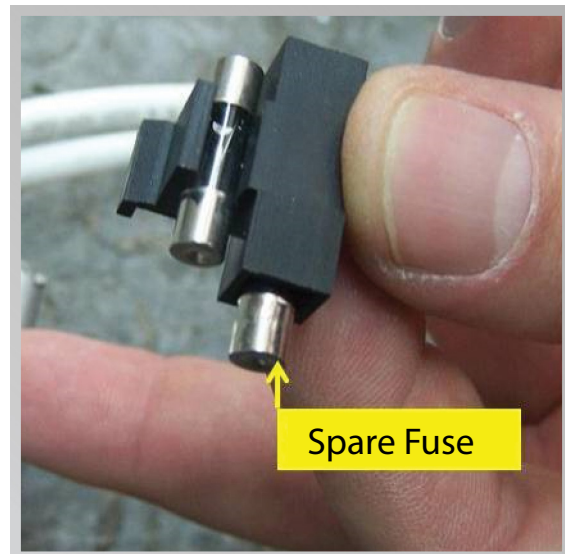
POWER CONNECTOR FRONT VIEW



24 V DC POWER SUPPLY

2.2 Power Supply Fuse

 Use only the same type and rating of fuse as selected by the manufacturer!



The fuse and a spare are located inside AC power socket

2.3 Safety Related Instructions

1. Users must not dismantle the turnstiles. Maintenance can only be performed by competent and authorized personnel. Maintenance work attempted by non-qualified individuals may create danger to users and the turnstile.
2. Turnstile must not be installed at places where there is a risk of explosion caused by electrical arcs or a probable gas leakage.
3. Turnstile must be kept away from flammable environments.
4. Turnstile should not be installed at places where there is vibration.
5. Turnstile must not be kept in excessively moist environments.
6. Turnstile must not be exposed to heat.
7. Turnstiles must not be subjected to abusive treatment such as impact or excessive shaking.
8. Turnstile must be kept away from high level magnetic fields.
9. Operating voltage/ power range must be observed in all installations. .
10. The power must be stable, properly grounded, insulated.
11. Turnstiles can only be operated under the environmental conditions and temperatures specified by the manufacturer.
12. Children must not be allowed to play with the turnstiles.
13. All connections must be confirmed to be correct before supplying power to the turnstile.
14. Only materials and equipment recommended by the manufacturer must be used for the turnstile when making connections into the input and output terminals.
15. All parts and accessories used in the turnstiles must be approved by the manufacturer.
16. In case of any electrical arching or faults caused by such condition, power must be disconnected and authorized servicer or manufacturer must be contacted as soon as possible.
17. The power must be cut off before cleaning or maintenance.
18. Only clean, soft and moist fabrics (no abrasive materials) should be used for cleaning the turnstile surfaces.
19. Damaged turnstiles must not be operated, and the authorized dealer or the manufacturer's technical support center should be contacted as soon as possible for repair.

2.4 Operating Conditions

1. More than one person must not attempt to pass at the same time.
2. Turnstile must not be forced, kicked, abused or tampered with to gain passage without authorization.
3. Turnstiles must not be washed for cleaning purposes (applying water with a hose or pouring water from a bucket. etc). Wiping off with non abrasive materials such as a damp cloth is sufficient in most cases.
4. Chemicals and abrasives must not be used in any case for cleaning. The manufacturer is not responsible for damages resulting from use of such materials.

3. HANDLING AND INSTALLATION

3.1 Handling

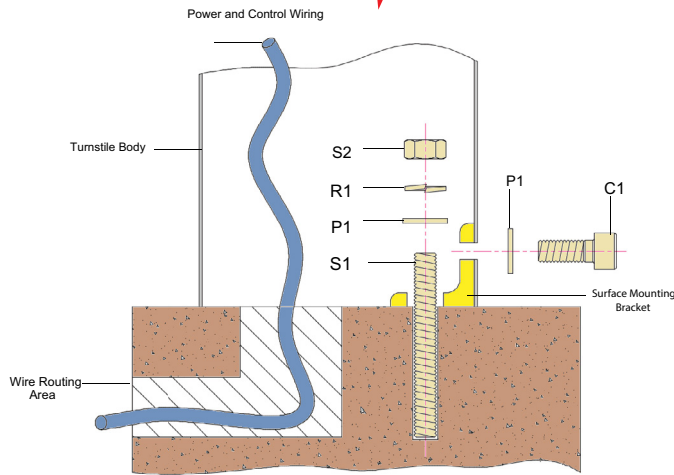
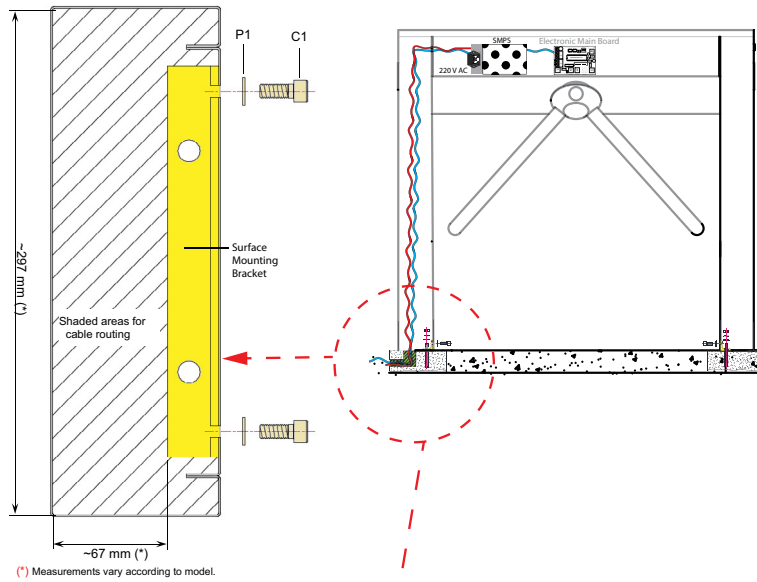
1. Please pay special attention to carry the turnstiles as originally packed by the manufacturer.
2. Follow the handling and carrying instructions written on the package.
3. Do not place a heavy load on the turnstile package.
4. Do not place the packed turnstile on a wet ground.
5. Do not leave the packed turnstile under rain.
6. During handling, use an appropriate lift/crane with sufficient lifting capacity.
7. Before starting installation ensure that there is no shipping damage or missing parts and hardware inside the package.

3.2 Installation

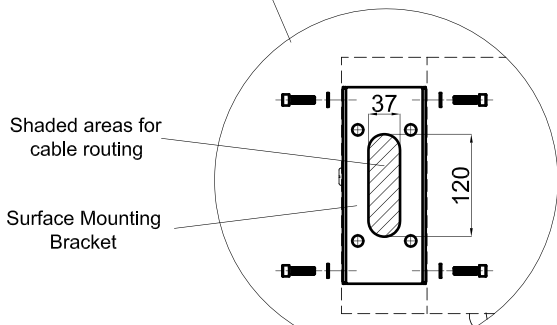
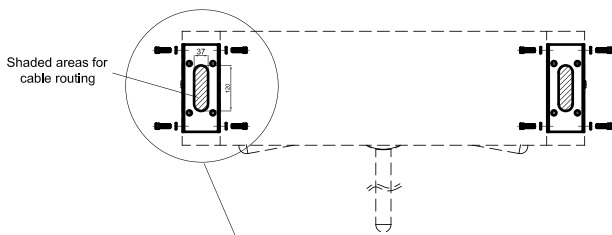
1. The installation place should be selected according to user's requirements. This selection should not prevent the smooth operation of the turnstiles.
2. Ensure that the installation surface is flat, even and of proper strength. Flatten any uneven/ rough areas if necessary.
3. Mark the holes and drill with a size 10 drill bit. Clean the debris inside the holes by pressurized air.
4. Fill the holes with chemical plaster and fix anchoring bolts (size 8) in place by rotating. Chemical plaster dries in about 25 minutes.
5. Place turnstile on anchoring bolts and tighten the nuts to secure in place.
6. Connect power and control cables.

**** A model specific mounting plan is supplied with the turnstile.**

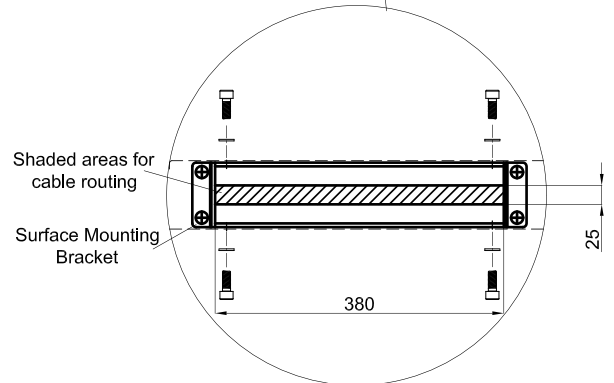
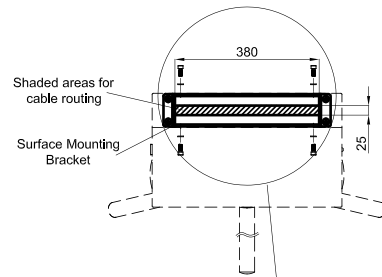
3.2.1 Installation Illustrations For Different Surface Mounting Bracket Versions



Version 1



Version 2

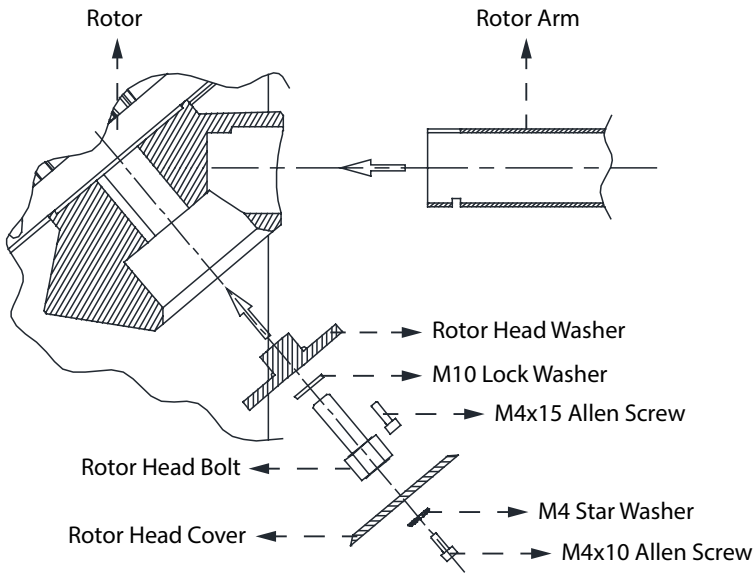


Version 3

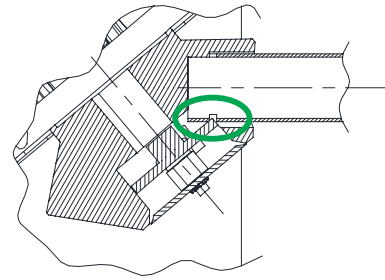
3.3 Arm Mounting (Fixed Arm Models)



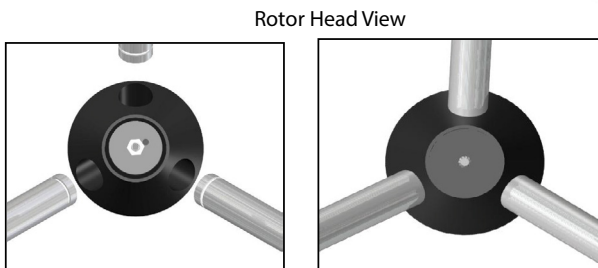
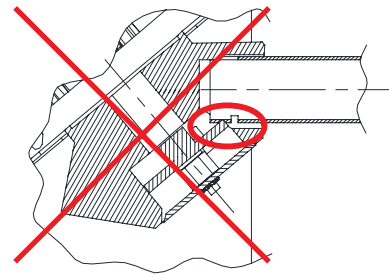
Arm must be mounted correctly to prevent loosening and dropping during use!



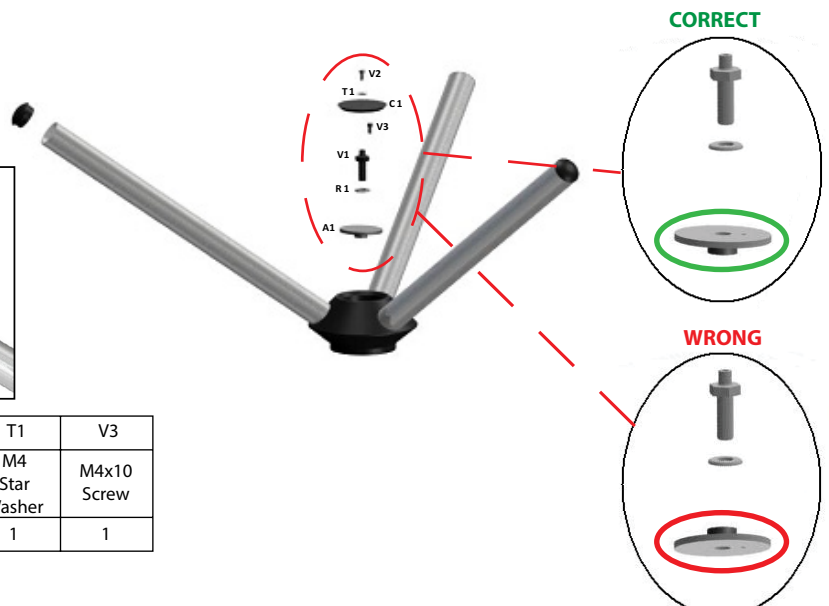
CORRECT INSTALLATION



WRONG INSTALLATION



A1	R1	V1	V2	C1	T1	V3
Rotor Head Fixing Washer	M10 Lock Washer	M10x30 Bolt	M4x15 Screw	LID	M4 Star Washer	M4x10 Screw
1	1	1	1	1	1	1



3.4 Arm Mounting (Drop Arm Models)



1. Seat the arm on the rotor



2. Place Allen screws (2 pcs)



3. Tighten screws with 5 mm. keys

3.5. Wing Mounting (Wide Access/ DDA models)



1. Insert panel in place.



2. Tighten top fixing screw



3. Tighten bottom fixing screw

4. TURNSTILE SYSTEM SPECIFICATIONS

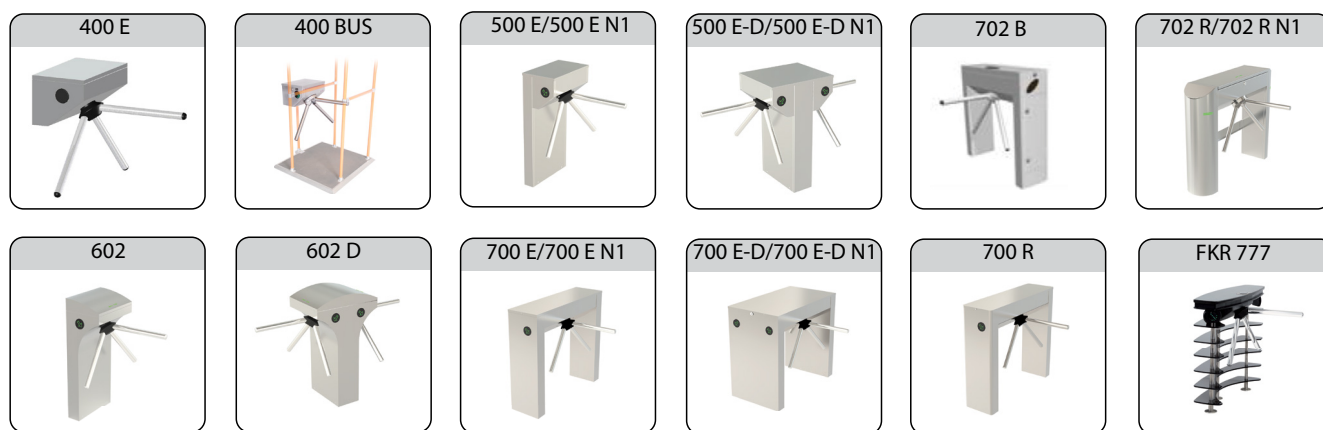
4.1 Waist Height Turnstile System Specifications Table

WAIST HEIGHT MODELS	MECHANISM		OPERATIONAL FEATURES			MATERIALS			
	MANUEL	MOTORIZED	MOVEMENT	LOCK CONTROL	STOPPING	MAIN ROTOR	ARM / WING	LOCKS	
400 E	X		Manuel Push (opt. Motor)	Solenoid	Hydraulic Damper	Polyamide + Steel	Chrome/*	3 Arms	
400 BUS	X								
602 / 602 D	X								
500 E / 500 E-D	X								
500 E N1 / 500 E-D N1	X								
702 B	X								
700 E / 700 E-D	X								
700 E N1 / 700 E-D N1	X								
700 R	X								
FKR 777	X		Motor		Motor	Polyamide + Steel	Chrome/*	1 Wing	
605 / 605 D		X							
705 E / 705 E-D		X							
705 E N1 / 705 E-D N1		X							
715 E		X							
715 B		X							
SWG 101	X		Push	----	Spring	Steel	Acrylic / Other**	Steel	
MRKT 404	X			Locked Ball Bearing	----				
702 R / 702 R N1		X	Motor	Solenoid	Motor	Polyamide		3 Arms	Polyamide

* Al.: Aluminium

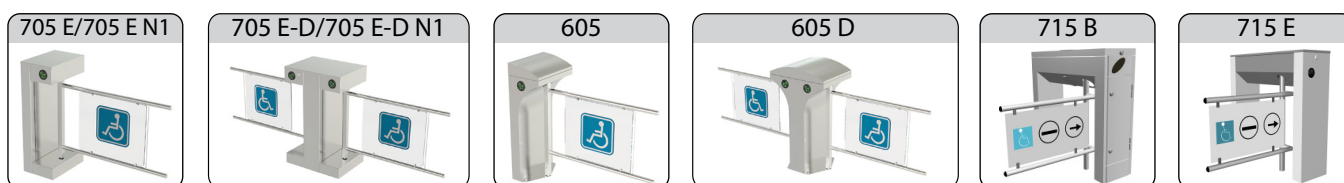
** Optional Materials : Acrylic, Painted Steel, Stainless Steel, Wood.

4.2 System Specifications – Tripod Models



1. System is designed for bi-directional operation. In standard models, when power is cut off, arms freewheel to allow free passage in both directions; optionally the arms can be set up to lock (fail-lock) when power is cut off.
2. Mechanical parts of the turnstiles are made of stainless steel and galvanized metal. Main lock, balancing systems and lock offsets of the rotating equipment are made of injection molded polyamide.
3. Once passage is permitted and arms rotate 30 degrees, arms will not return, and until the completion of the movement another passage is not allowed by the system.
4. After each complete passage the manual system returns to standby position smoothly and quietly by means of a hydraulic shock absorber. Motor driven versions complete rotation by a gentle push following authorization.
5. Signalization is provided with direction indicators placed on both sides of the upper body of the turnstile (While green arrow indicates active passage direction, red bar shows the blocked passage direction). In addition to the visual signalization with green/ red indicators, an audio buzzer signal is provided during passage.
6. Solenoids used within the system are driven by PWM for reliability, optimal energy efficiency and less heat. They do not warm up to more than 10 degrees of the ambient temperature.
7. Electronic board controlling the system is designed as “coated inside the hole.” Therefore, it is not affected by vibration.
8. The micro-processor based electronic control system used in the turnstiles can be programmed for various functions and operating modes by a simple dip switch selection.
9. All inputs and outputs are isolated by opto-coupler and relay components for increased reliability.
10. Turnstiles can be activated or blocked with the signals received from data collection systems (full closed). For dropping arm applications, an arm control unit, battery charger and a rechargeable battery are included as standard feature.
11. The power supply is supported by “switching-mode” technology for better voltage regulation and energy efficiency.
12. Turnstile only allows passages of authorized people. If a person does not pass within a pre-set time limit following authorization contact (selectable for 6, 12, 18 or infinite seconds), the system automatically locks and returns to standby.
13. After passage, the system provides dry contact relay output for each direction. An optional counter can be used.
14. Electronic control unit of the turnstile is protected against water for outdoor installations.
15. Turnstiles can work in synchronization with door-type metal detectors; for security purposes, even passage of a person with authorization can be blocked automatically upon receiving contact from a metal detector. The system can be returned to normal operation by the operator.
16. In cases of emergency the turnstile can be switched into “**emergency mode**” with a normally closed manual button or relay from fire alarm system. In emergency mode arms rotate freely in both directions allowing free passage.
17. Turnstile passage directions can be arranged in different combinations. (For example: one direction blocked, other direction controlled or free; both directions controlled, or one direction free and other controlled)
18. Turnstiles allow passage of only one person at a time for each authorization contact into the control board.
19. Card readers or similar access control systems can be integrated into the turnstiles separately or jointly for controlling both sides depending on the needs and specific requirements.
20. Once a passage is completed, an entrance or exit direction data (dry contact) is provided to the data collection terminal.

4.3 System Specifications- Wide Access/ DDA Models-Turnstiles For Reduced Mobility



1. Microprocessor controlled, bi-directional wide access system (Only 715-B ve 715-E models are uni-directional)
2. PWM DC motor driven system for quiet and efficient operation.
3. Panel unlocks and opens 90° automatically in either direction when a contact is received on Input A or Input B terminals. The panel stops and tries to continue its movement once more if it meets an obstacle during its movement. If the obstacle is still present an alarm is activated and the panel is released. The system self-resets within 8 seconds.
4. Timing can be re-set manually or by an optional photocell unit for immediate closing of the panel following a passage.
5. **Emergency Mode:** The panel opens automatically in either direction as determined by the dip switch setting when emergency mode is activated by opening a normally closed switch or fire alarm relay contact. Unit returns to normal operation when emg-gnd contact is re-established.

4.4 Indicators

The system features status indicators on both sides for user guidance.




RED CROSS: System is closed



GREEN ARROW: Passage allowed.

 Buzzer is heard when a passage is authorized.

In addition to the side indicators, an optional top passage indicator is available which provides further guidance by a blinking green arrow during passage. In alarm mode the indicators alternately blink in red and green and buzzer is heard. 

4.5 Equipment and Accessories

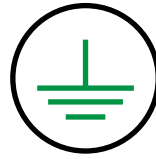
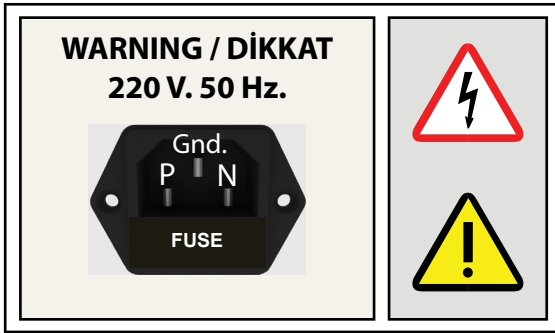
MODEL	Standard Features		Optional Features / Accessories															
	Indicators		Photocell	Coin System	Card Reader System	Remote Control	Dropping Arm	Heater Positive	Intercom Unit	Alarm Unit					Counter	Passage Limiter		
	Pass	Guidance								Pressure	Earth Quake	Under Arm Passage	Climb Over Pasagge	Weight				
Waist Height (Tripods)	400 E	O	✓	O	O	O	O	-	O	O	-	O	O	O	-	O	O	
	400 BUS	O	✓	O	O	O	O	-	O	O	-	O	O	O	-	O	O	
	602 / 602 D	O	✓	O	O	O	O	O	O	O	O	O	O	O	O	O	O	
	500 E / 500 E-D	O	✓	O	O	O	O	O	O	O	O	O	O	O	O	O	O	
	500 E N1 / 500 E-D N1	O	✓	O	O	O	O	O	O	O	O	O	O	O	O	O	O	
	702 B	✓	✓	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
	702 R / 702 R N1	✓	✓	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
	700 E / 700 E-D	O	✓	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
	700 E N1 / 700 E-D N1	O	✓	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
	700 R	O	✓	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
FKR 777	✓	✓	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	
Turnstiles for Reduced Mobility	605 / 605 D	O	✓	O	O	O	O	-	O	O	O	O	-	O	O	O	O	
	705 E / 705 E-D	O	✓	O	O	O	O	-	O	O	O	O	-	O	O	O	O	
	705 E N1 / 705 E-D N1	O	✓	O	O	O	O	-	O	O	O	O	-	O	O	O	O	
	715 E	O	✓	O	O	O	O	-	O	O	O	O	-	O	O	O	O	
	715 B	O	✓	O	O	O	O	-	O	O	O	O	-	O	O	O	O	
Free Passage	SWG 101	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	MRKT 404	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

✓ - Standard
O - Optional

5. SET UP AND OPERATION

5.1 Power and Grounding Connections

TURNSTILE POWER WARNING LABEL



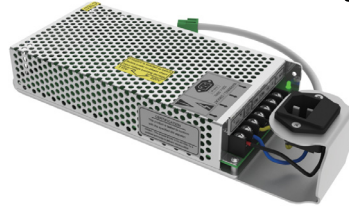
Grounding (Gnd.)



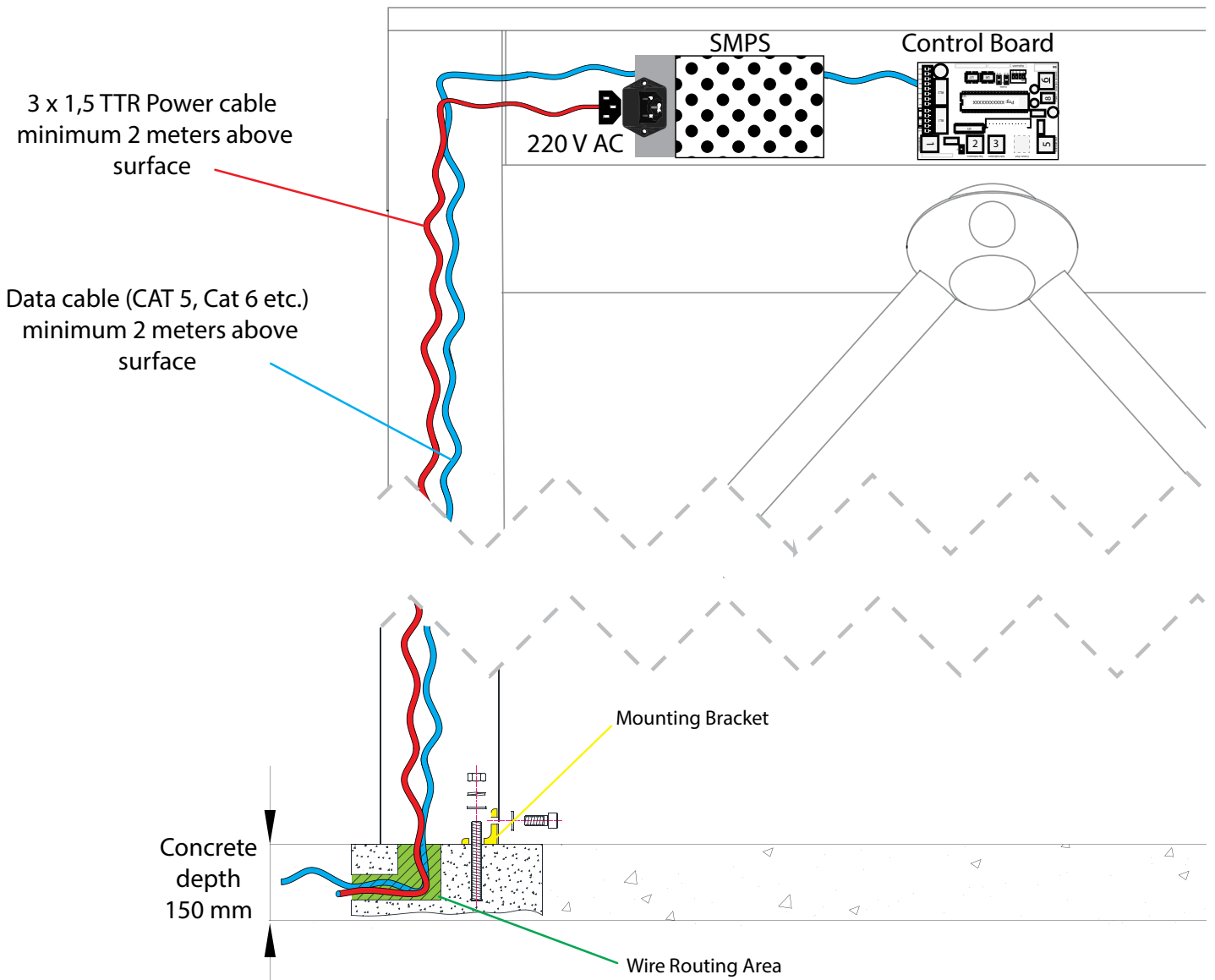
Proper grounding must be ensured to prevent shock hazard!



Power and grounding connections must be made by a qualified electrician in accordance with the relevant local regulations using appropriate materials!

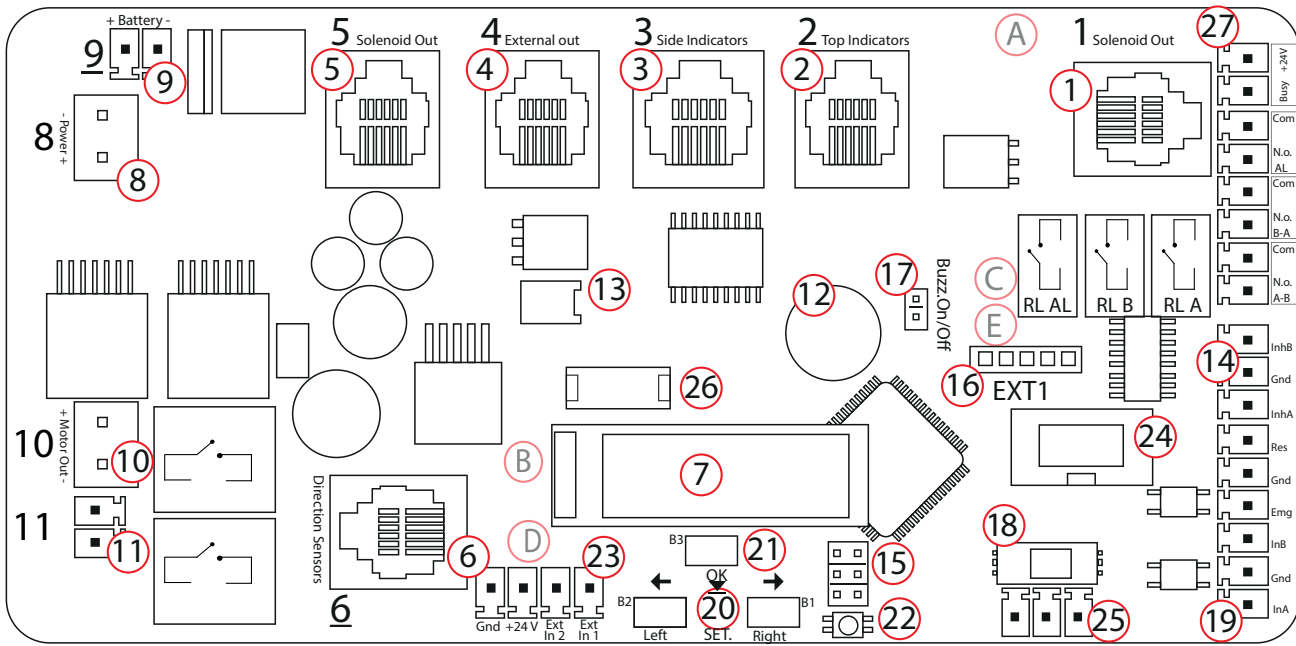


Never remove the protective cover of the power supply unit for any reason! In case of a power supply failure, the power supply unit must be replaced with an original unit obtained from **Ozak**.



5.3 Control Board Connections

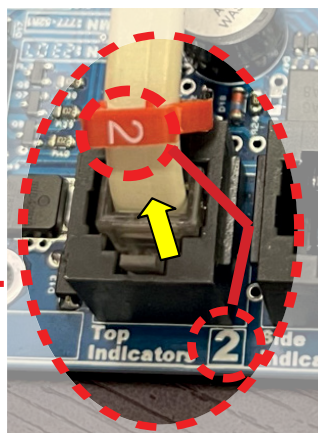
TRN 2301 S/E



- | | | |
|---------------------------|---|------------------------------------|
| 1. Solenoid A-B | 13. Ekstra I/O Connector | 23. Alarm Photocell Inputs |
| 2. Top Indicator | 14. Inhibit Terminal | 24. CAME Key Connector |
| 3. Side Indicator Outputs | 15. ISP Connection | 25. RSE Modbus Connector |
| 4. External Out | 16. Extra Comms. Modul Connection (RS 485 / 232 / TCP IP) | 26. Ekstra Bus Connector |
| 5. Solenoid B-A | 17. Buzzer On/Off | 27. Passage Feedback Relay Outputs |
| 6. Direction Sensor Input | 18. RSE Connector | |
| 7. OLED Display | 19. Control Inputs | A. Board Serial Number |
| 8. Power Input | 20. Direction Buttons | B. Stock Code |
| 9. Battery Socket | 21. Enter Button | C. Production Number |
| 10. Motor Output Socket | 22. Reset Button | D. Board Model |
| 11. Drop Arm Socket | | E. PCB Manufacturer Number |
| 12. Buzzer | | |



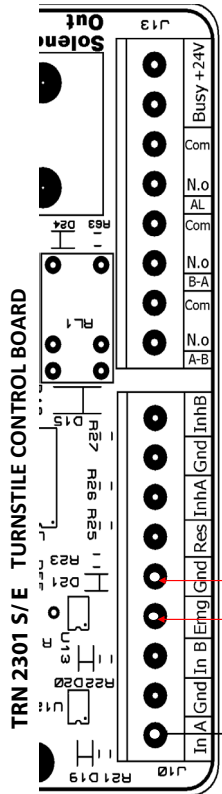
Match socket and cable numbers when replacing boards and other parts !



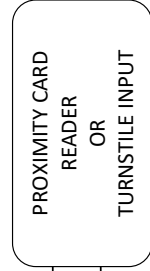
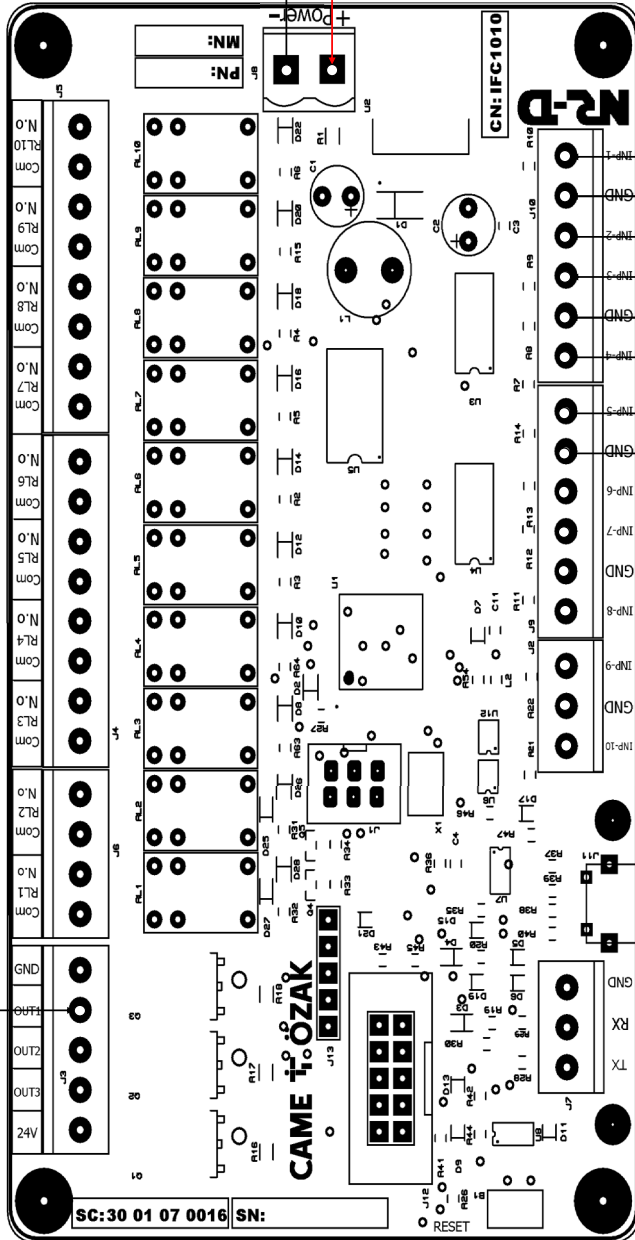
Wiring Diagram For AVIR 800 Only

Operation Sequence

1. Check reader input (Normally Open)
Note: If reader is not used, place jumper between In1 and Gnd
2. Check thermal scanner (NC contact opens for 2 sec. if temp. reading is within set range)
Note: If thermal Scanner is not used, leave terminal In2 open
3. Check Left and Right hand sensors (Normally Closed-Open contact when hand inside)
4. Release turnstile for one passage (relay contact to IN A--Gnd terminals of turnstile control board)
Note: System is inoperable when liquid level sensor output closes--Low level warning light ON.



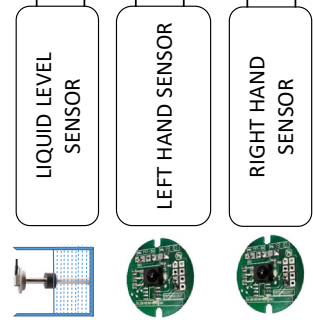
IFC1010 INTERFACE BOARD



Insert jumper into IN 1 and GND if reader is not used



2 sec. open if temp. ok

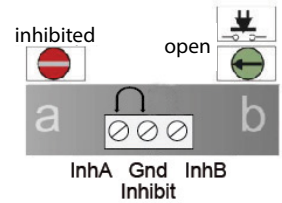
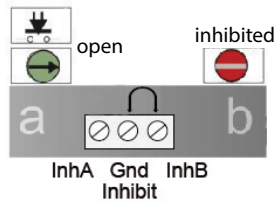
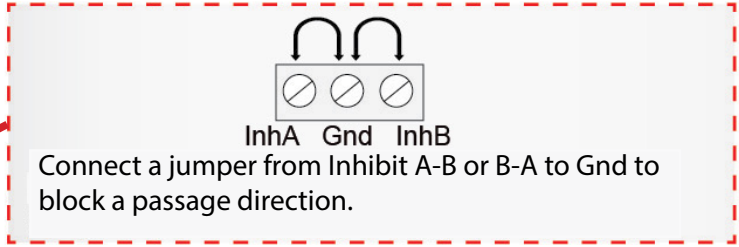
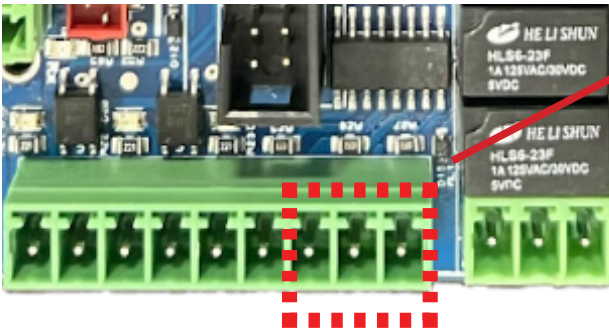


5.4 Control Board Settings

5.4.1 Blocking Passage Direction
















































TRN 2301 S/E

To block entry into A or B direction, short enable pins (J4,J5). Turnstile will not allow passage in the blocked direction and indicator for that direction will turn red to show blocked access. This feature can be used with a metal detector to automatically block access for security purposes or setting the turnstile for one way traffic operation.

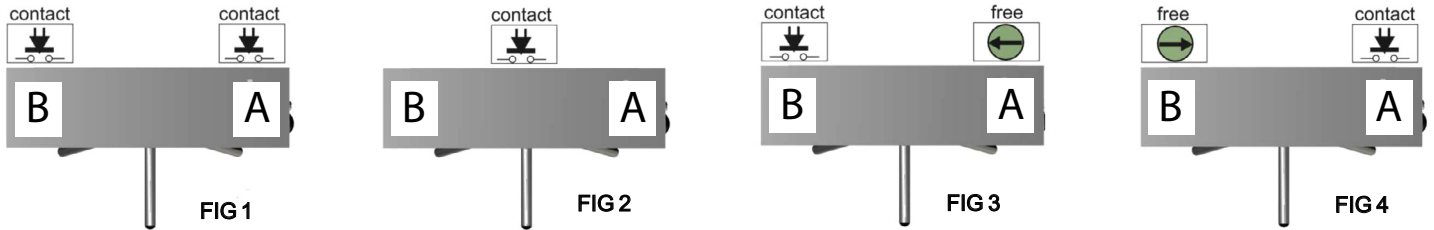


5.4.2 Dip Switch Settings

- **Tripod Turnstiles:** Time out and mode settings of the turnstile are selected by the dip switch located on the control board as explained below.

Display	Function
  	
ON     1 2 3 4	Stand-by Screen
LEFT BUTTON    RIGHT BUTTON  OK / ENTER BUTTON - Press To Set DIP Switch State	
ON     TIME SEL. 6 Sec 1 2 3 4	Timeout Select
ON     TIME SEL. 12 Sec 1 2 3 4	
ON     TIME SEL. 18 Sec 1 2 3 4	
ON     TIME SEL. Infinite 1 2 3 4	
LEFT BUTTON    RIGHT BUTTON 	
ON     PRG.SEL. A - B Locked 1 2 3 4	Program Selection
ON     PRG.SEL. A - B Single In. 1 2 3 4	
ON     PRG.SEL. B >> A Free 1 2 3 4	
ON     PRG.SEL. B << A Free 1 2 3 4	

Check the settings menu pages 25-26-27-28-29













- FIG 1.** Bi-directional controlled passage: A card reader or button is used for each direction
FIG 2. Bi-directional passage by a single control device: A single reader or button connected into In A allows passage in both directions
FIG 3. A direction free, B direction controlled passage: Example: Controlled entry –free exit into a building.
FIG 4. B direction free, A direction controlled passage

- **Wide Access/ DDA Models:** Switch number 2: Sets 'stay open' duration to 2 seconds. Default is 6 seconds.
 Switch number 3: Sets emergency opening direction
 Switch number 4: Allows open/ timeout reset - close commands by a single contact into In A or B. Panel closes without waiting for timeout period when input contact is repeated.
All other settings are as explained in table above

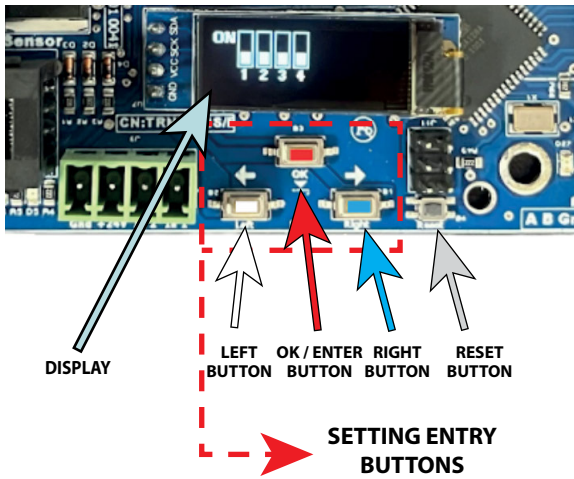
Note: Turnstile settings of the TRN 2301 S/E main board can be made via the OLED Display

Please follow the instructions below to save the settings changed.

Do Not Save and Continue		Save and Continue
LEFT BUTTON  RIGHT BUTTON  Use the Left and Right buttons to select.	SAVE ? Yes > No Press Enter Button to Continue ON     1 2 3 4 If you want to cancel the changes made, press the reset button.	SAVE ? > Yes No Press Enter Button to Continue << DATA SAVED >> ON     1 2 3 4
The system enters the save menu if no action is taken for 14 seconds after data change.		
Use the Left and Right buttons to select.		

5.4.3 Magnetic Encoder Arm Stop Settings

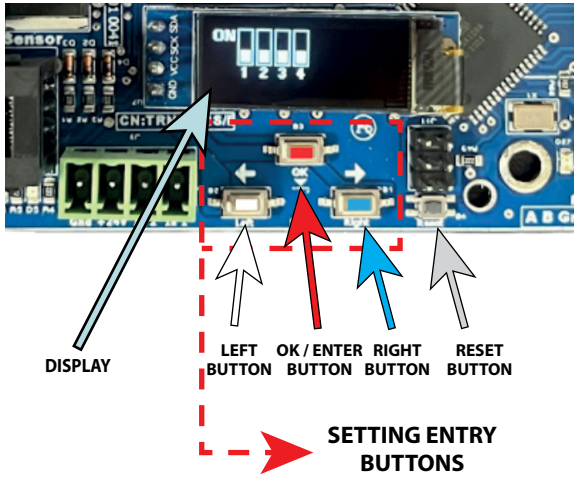
TRN2301 Control Board/ 3 and 4 Arm Turnstile Rotor Arms Centre Position Settings



Press **RIGHT** button to show DIP switch state.
 Press **LEFT** button to show analog parameter settings
 Press **OK / ENTER** button to enter or change settings.
 Press **RESET** button to restart the system.

Display	Service Mode	
ON <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4	⇒	Press Reset Button
CAME ÖZAK TP03xx	⇒	Hold The Enter Button for 2 Seconds Before The Warning Sound Ends
>> SERVICE MODE << [Push Enter Bt. for] [2 sec. for auto config]	⇒	Hold Enter Button for 2 Seconds
> Check Mag Type > Check Mot. Status [Push enter to set]	⇒	Press Enter Button
CAUTION ! After Selecting , Push Enter Bt. For 2 Sec.	⇒	Press Enter Button
ON <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4	⇒	> Check Solenoid Type > Check Motor Status > Return To Stand-by Screen > Hold Enter Button for 2 Seconds
SAVE ? Yes > No	⇒	If changes have been made, press Left or Right button to "Yes" and press Enter to save / →
<< DATA SAVED >>	⇒	WAIT
POSITION SETTINGS Auto For Motorized Manual By Hand	⇒	WAIT
		Motorized
POSITION SETTINGS P(1) P(2) P(3) P(4)	⇒	Do Not Touch The Arms Until End of The Process Middle
POSITION SETTINGS P(1) P(2) P(3) P(4)	⇒	Do Not Touch The Arms Until End of The Process Middle
POSITION SETTINGS P(1) P(2) P(3) P(4)	⇒	Do Not Touch The Arms Until End of The Process Middle
POSITION SETTINGS P(1) P(2) P(3) P(4)	⇒	Do Not Touch The Arms Until End of The Process Middle
PROCESS COMPLETED Push Reset Button To Restart The System	⇒	Press Reset Button to Restart The Turnstile
		Non - Motorized
		Set The Position by Hand and Press Enter Button Middle
		Set The Position by Hand and Press Enter Button Middle
		Set The Position by Hand and Press Enter Button Middle
		Set The Position by Hand and Press Enter Button Middle
		Press Reset Button to Restart The Turnstile Middle

TRN2301 Control Board / GLA, DDA Gates Wing Position Settings

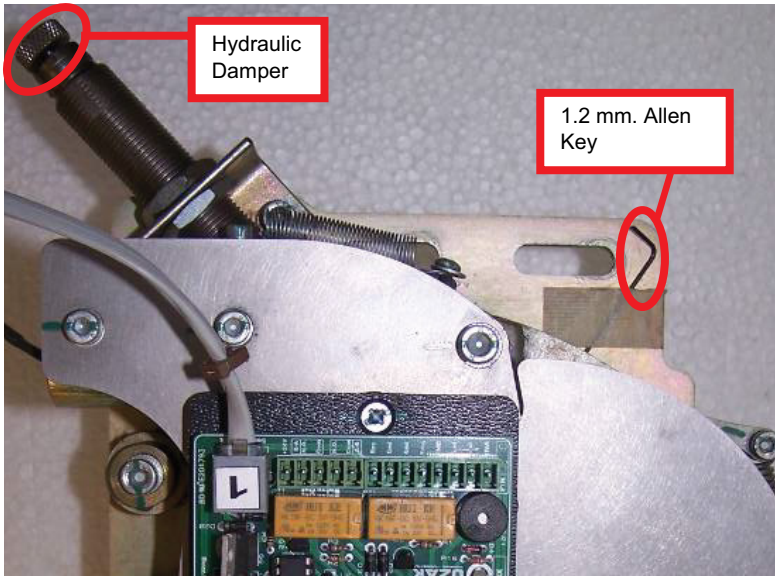


Press **RIGHT** button to show DIP switch state.
 Press **LEFT** button to show analog parameter settings
 Press **OK / ENTER** button to enter or change settings.
 Press **RESET** button to restart the system.

Display	Service Mode	
ON 1 2 3 4	⇒	Press Reset Button
CAME ÖZAK GV03xx	⇒	Hold The Enter Button for 2 Seconds Before The Warning Sound Ends
>> SERVICE MODE << [Push Enter Bt. for] [2 sec. for auto config]	⇒	Hold Enter Button for 2 Seconds
Check Mag Type [Push enter to set]	⇒	Check Mag Type and Press Enter Button
CAUTION ! After Selecting , Push Enter Bt. For 2 Sec.	⇒	Press Enter Button
ON 1 2 3 4	⇒	> Check Solenoid Type > Return To Stand-by Screen > Hold Enter Button for 2 Seconds
SAVE ? Yes > No	⇒	If changes have been made, press Left or Right button to "Yes" and press Enter to save
<< DATA SAVED >>	⇒	WAIT
POSITION SETTINGS Move to Panel Pos. Enter Bt. For 2 Sec.	⇒	WAIT
----- v	⇒	Set The Position by Hand and Hold Enter for 2 Seconds 0° Middle
<----- QK	⇒	Set The Position by Hand and Hold Enter for 2 Seconds 90° Right
<----- QK OK > Left Right	⇒	Set The Position by Hand and Hold Enter for 2 Seconds -90° Left
< OK Left QK OK Right >	⇒	Press Reset Button to Restart The Turnstile

i SOLENOID = MAGNET
SOL = MAG

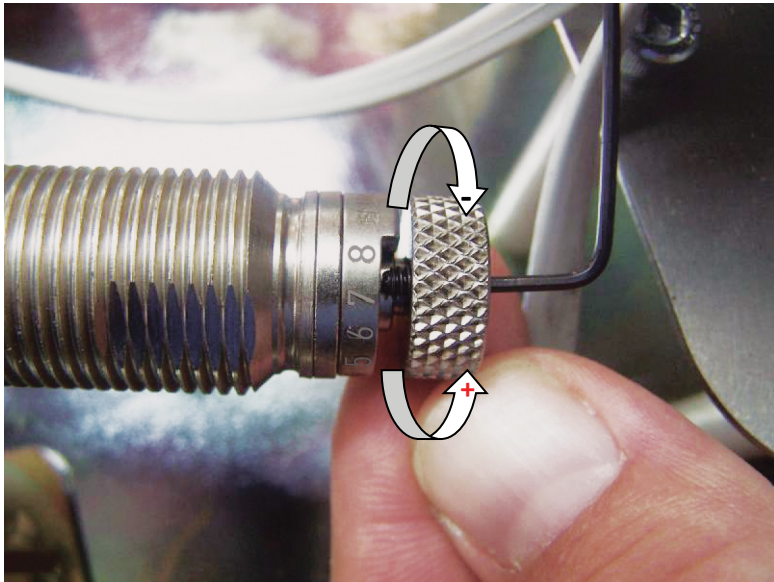
5.5 Hydraulic Damper Settings (Manual Models)



Damper Adjustment:

Due to large variations in ambient temperature or wear, the hydraulic damper adjustment may be required. Example; in very cold temperatures damping should be reduced if the rotor can not quickly return to rest position following rotation. In warm areas, if the rotor fails to stop smoothly at the rest position and oscillates then the damping should be increased.

Before adjusting the damper, loosen the dial stop screw with 1.2 mm. Allen key taped on the mechanism.

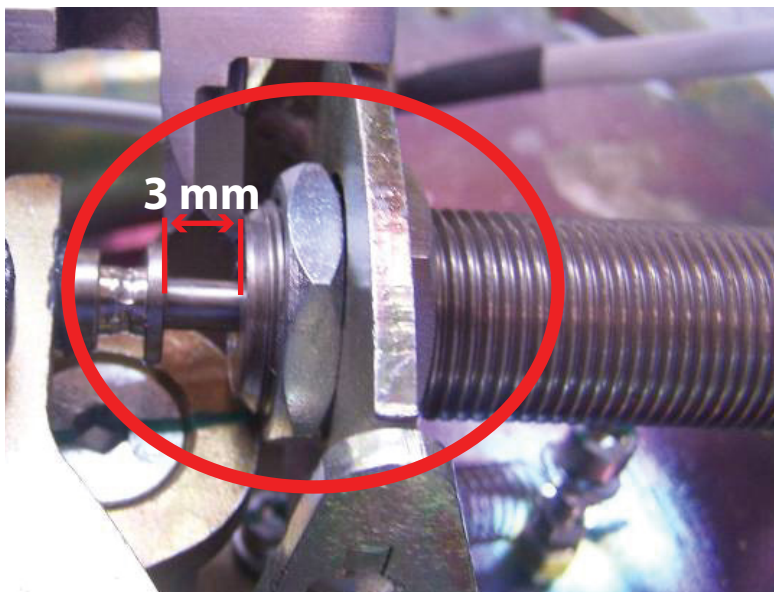


Note:

Damping factor is increased when dial is turned clockwise.

Once the adjustment is done, tighten the stop screw while holding the dial steady with the other hand.

Caution! Dial is very sensitive. It must be adjusted carefully in small increments.



Caution! To prevent damage due to bottoming out of the damper during operation, ensure that there is approximately 3 mm. clearance between the damper head and the body when the damper arm is fully pushed in. Use loctite on damper mounting nuts to prevent loosening by vibration if clearance adjustment is performed.

6. POST INSTALLATION CHECKLIST

No	Item to Check	✓	Remarks
1	Installation surface is flat, even and sufficiently strong		
2	All wiring is routed and connected properly		
3	All AC power lines are properly insulated and grounded ⚠		
4	Turnstile is positioned and mounted correctly and firmly		
5	All anchoring bolts are secured in place with chemical plaster.		
6	All anchoring hardware tightened properly (no loose nuts/bolts etc).		
7	All arms, covers, panels, readers etc. are mounted correctly		
8	No physical damage or irregularities (dents, scratches, broken items etc.)		
9	When powered up all indicators are normal, solenoids locked, buzzer initial beep is heard, rotor/panel on standby position)		Depends on dip SW settings (see 5.4)
10	Turnstile allows passage in A direction when contact is given on Input A and Gnd. Opposite side indicator turns red until rotation complete.		
11	Turnstile allows passage in B direction when contact is given on Input B and Gnd. Opposite side indicator turns red until rotation complete.		
12	Turnstile rotor (or panel) operates quietly, smoothly and returns to center (standby) position.		
13	When Emg contact is given continuously turnstile allows free passage in both directions while buzzer is heard.		(Fixed arm version freewheels, drop arm drops, panel version fully opens)
14	When power is cut off, turnstile allows free passage by pushing		Arm drops automatically in drop arm models
15	⚠ AC potential between turnstile ground and neutral is less than 0.5V. Good continuity (0 Ohm) between chassis and ground.		Unit is properly grounded.

7. SERVICE AND MAINTENANCE

7.1 Maintenance Instructions

7.1.1 Recommended User Maintenance

- Periodically wipe the turnstile exterior with a clean, damp and soft cloth to keep it free of dust.
- Inspect external mounting screws, panels, arms etc. once every three months or as required to ensure that there are no loose, worn out or damaged items. If there are loose or damaged items contact your authorized dealer or Ozak.
- Check that the turnstile is firmly anchored on the surface.(No loose or damaged anchoring).
- Check that all mechanical movement is smooth and quiet with no unusual noise, rattling etc.
- Inspect electrical cables and connections for any damage, water contamination, loose connections or wear. Contact your authorized dealer or the manufacturer if any problem is detected.
- Ozak uses only the finest quality certificated steel obtained from reputable suppliers for maximum corrosion resistance and strength. During our manufacturing process we take all the required steps to ensure that the finished products have excellent corrosion resistance. Depending on the environmental conditions, there may be staining issues on some turnstile surfaces in outdoor installations if regular cleaning and maintenance is not performed. On 304 and higher grade steel surfaces, these stains are not actual rust, but only accumulation of airborne particles sticking on the surfaces. These type of stains can be cleaned off and prevented by periodic maintenance recommended below.
- Cleaning the turnstile surfaces by wiping with a clean, dust and grit free absorbent cloth is effective in most cases. Harsh abrasives should never be used on polished metal surfaces. Commercially available appropriate metal polishing compounds can be used for removal of tougher stains. The recommended frequency of cleaning depends on the local environment as explained in table below.

Environment	Type 304	Type 316
Seafront	Frequently as required	Monthly
Coastal (Within 5 km of the coast)	Frequently as required	6-12 months
Industrial and urban	3-6 months	6-12 months
Suburban Rural	Annually or as required by experience	
Internal	As required to maintain appearance	



Do not wash the turnstile with pressurized water.

There are no user serviceable items inside the turnstile. Do not attempt to do repair work such as lubrication, part replacement, adjustment inside the unit. All such work must be performed by qualified technical personnel only!

7.1.2 Periodic Maintenance by Technical Service Personnel

400-500-600-700 SERIES TURNSTILES			
General	Cover and anchoring bolts	12 mth.	Check/ Tighten
	Cover, reader and indicator seals	12 mth.	Check
	Rotor head and mounting hardware	12 mth.	Check
Mechanism	Rotor shaft	12 mth.	Check + Lubricate
	Damper arm and bearing	12 mth.	Check
	Locking levers	12 mth.	Check
	Solenoids	12 mth.	Check
	Lock spring	12 mth.	Check
	Hydraulic damper	12 mth.	Check + Adjust
	Mechanical assembly fasteners	12 mth.	Check
	Bearings	12 mth.	Check
Electronics	Control board	12 mth.	Check + Remove dust
	Magnetic encoder	12 mth.	Check + Remove dust
	Wiring and connectors	12 mth.	Check
	Indicators and buzzer	12 mth.	Check
WIDE ACCESS/ DDA TURNSTILES			
General	Cover and anchoring bolts	12 mth.	Check
	Cover, reader and indicator seals	12 mth.	Check
	Motor	12 mth.	Check
Mechanism	Motor pulley and drive belt	12 mth.	Check
	Rotor shaft	12 mth.	Check + Lubricate
	Solenoids	12 mth.	Check
Electronics	Control board	12 mth.	Check + Remove dust
	Magnetic encoder	12 mth.	Check + Remove dust
	Wiring and connectors	12 mth.	Check
	Indicators and buzzer	12 mth.	Check

7.2 Trouble Shooting and Repair Guide (⚠ Refer all repair work to qualified technical service personnel!)

Description of Fault	Possible Cause	Recommended Action
No power. (indicators, buzzer, locks off)	<ol style="list-style-type: none"> 1. No AC power supplied to unit 2. Loose power cable 3. Blown fuse 4. Faulty power supply unit 	<ol style="list-style-type: none"> 1. Restore AC power 2. Connect power cable 3. Replace fuse (see 2.2) 4. Replace power supply unit
Rotor freewheels in both directions when power is on while buzzer sound is heard.	<ol style="list-style-type: none"> 1. Emergency input jumper or relay contact is open (if indicators are green). 2. Loose or faulty sensor in mechanism (if indicators are red with periodic beep). 3. Faulty control board. 	<ol style="list-style-type: none"> 1. Connect Emg. jumper or NC alarm relay on Emg-Gnd. 2. Tighten, repair sensor connection/ Replace sensor. 3. Replace control board.
Turnstile does not allow passage when input contact is given-buzzer heard	<ol style="list-style-type: none"> 1. Restricted lock lever movement (due to foreign object such as cable, gummed lubricant etc) 2. Sticky solenoid 3. Faulty control board 4. Misaligned/bent sensor in motorized units 	<ol style="list-style-type: none"> 1. Repair lever mechanism 2. Replace solenoid 3. Replace control board 4. Adjust sensor (motorized units)

Description of Fault	Possible Cause	Recommended Action
Rotor/arms do not return to center (standby) position following a passage	<ol style="list-style-type: none"> 1. Loose or broken clamp spring 2. Over damped hydraulic damper setting 	<ol style="list-style-type: none"> 1. Re-install / replace clamp spring 2. Adjust hydraulic damper (see 5.5)
Rotor bounces back and forth following a rotation, fails to settle in rest position smoothly	<ol style="list-style-type: none"> 1. Under damped hydraulic damper setting 2. Worn out / faulty hydraulic damper 	<ol style="list-style-type: none"> 1. Adjust hydraulic damper (see 5.5) 2. Replace and adjust hydraulic damper
Turnstile fails to lock/ free wheels following passage	<ol style="list-style-type: none"> 1. Dislocated, broken lock lever 2. Solenoid failure 3. Loose or faulty sensor 	<ol style="list-style-type: none"> 1. Repair/replace lock lever 2. Replace solenoid 3. Re-connect, replace sensor
Rotor gets stuck intermittently during rotation	<ol style="list-style-type: none"> 1. Loose or broken ratchet spring 	<ol style="list-style-type: none"> 1. Re-install/ replace spring
No response to input/reader device. No access	<ol style="list-style-type: none"> 1. Loose/incorrect reader connection 2. Reader fault 3. Faulty control board 	<ol style="list-style-type: none"> 1. Check/repair reader connections 2. Replace faulty reader/input device 3. Replace control board
No passage confirmation contact out of control board	<ol style="list-style-type: none"> 1. Loose connection at output terminal 2. Faulty control board 	<ol style="list-style-type: none"> 1. Repair connection 1. Replace control board
Turnstile freewheels in one direction	<ol style="list-style-type: none"> 1. Dip switch 3,4 might be set for free passage (see.5.4.2) 2. Loose solenoid connector 3. Loose lock lever spring 4. Stuck/ broken lock lever 	<ol style="list-style-type: none"> 1. Set dip switches 'off' 2. Re-insert connector 3. Repair/ replace lock lever
Arm fails to drop in emg mode or when power is cut off. (Drop arm equipped models)	<ol style="list-style-type: none"> 1. Depleted/ weak 12V battery 2. Loose battery connector 3. Loose drop arm driver board-motor connection 4. Jammed drop arm locking mechanism 	<ol style="list-style-type: none"> 1. Recharge/replace battery 2. Restore battery connection 3. Repair/tighten loose connection 4. Repair jammed mechanism
Arm fails to lock in place/ drops by itself (drop arm equipped models)	<ol style="list-style-type: none"> 1. Jammed arm locking mechanism 2. Loose/ deformed arm lock spring 3. Damaged/worn arm locks 	<ol style="list-style-type: none"> 1. Repair jammed mechanism 2. Repair/replace spring 3. Replace arm locks
Turnstile unlocks upon input but motor does not work (motorized models)	<ol style="list-style-type: none"> 1. Loose motor/motor driver board connection 2. Tripped motor driver protection circuit breaker (2xgreen leds lit) or blown fuse 3. Faulty motor driver board 4. Faulty motor 	<ol style="list-style-type: none"> 1. Repair/ tighten connection 2. Do a power off reset/ replace blown fuse 3. Replace motor driver board 4. Replace motor
Motorized rotor/ panel keeps moving/ fails to stop in middle position.	<ol style="list-style-type: none"> 1. Loose magnetic encoder connector 2. Misaligned, encoder arm stop positions 3. Faulty magnetic encoder 	<ol style="list-style-type: none"> 1. Repair/tighten magnetic encoder connector 2. Adjust/ clean magnetic encoder 3. Replace magnetic encoder
Motorized panel opens slowly and times out on return/ alarm activated	<ol style="list-style-type: none"> 1. Too low motor speed setting on motor driver board 2. Loose or oil contaminated drive belt 	<ol style="list-style-type: none"> 1. Increase motor speed (turn speed control ccw direction) on motor driver board 2. Clean/ tighten drive belt

8. LIST OF REPLACEMENT SPARE PARTS

	Part Description	Part Number	Standart	Motorized
1	Hydraulic Damper Bearing (698 ZZ)	10 00 10 0003	√	
2	Drop Arm Motor	10 01 34 0005		
3	Power Supply (SMPS) 100W/ 24V	10 01 35 0013		√
4	Power Supply (SMPS) 50W/ 24V	10 01 35 0017	√	
5	Battery (12V/1.2Ah)	10 01 38 0001		
6	Hydraulic Damper	10 02 00 0001	√	
7	Lock and Key Set	10 03 01 0001	√	√
8	Motor Belt 3PK500	10 04 19 0001		
9	Motor Belt 3PK515	10 04 19 0005		√
10	Arm Cap (Stainless Steel) TAP - 043	20 02 02 0468	√	√
11	Arm Caps (Ø42 Plastic) TAP-006	20 02 03 0027	√	√
12	Polyamide Rotor Head M19-5	20 02 03 0006	√	√
13	Polyamide Rotor Head Cap M 20-1	20 02 03 0007	√	√
14	Clamp Spring YAY 002	20 02 07 0007	√	√
15	Lock Lever M15-4	20 02 07 0008		
16	Lock Lever M15-1	20 02 07 0028	√	√
17	Side Indicator **		√	√
18	Turnstile Arm K 1-21	20 03 01 0007	√	√
19	Main Control Board 2301 S (Manual)	30 01 01 0041	√	
20	Main Control Board 2301 E (Motorized and Drop Armed)	30 01 01 0043		√
21	Main Control Board 2301 E (VIP - GLA)	30 01 01 0044		
22	Top Indicator Board TI061-SM	30 01 02 0035	√	√
23	Sensor MAS-12E-V1.00	30 01 05 0048	√	√
24	Solenoid (5V)	30 01 10 0005	√	√
25	Motor VIP (U) 505-605	30 01 16 0003		
26	Motor VIP (K) 705 E N1	30 01 16 0004		
27	Motor For Waist Height	30 01 16 0005		√
28	Reverse Motor For Waist Height	30 01 16 0010		√
29	Polyamide Drop Arm Assembly	45 00 00 0002		
30	Main Rotor Head Mounting Set	45 00 00 0003	√	√
31	Standart Mechanism V3 (Waist Height)	30 02 00 0026	√	
34	Motorized Mechanism V3 (Waist Height)	30 02 01 0012		√
32	Drop Arm Mechanism V3 (Waist Height)	30 02 00 0028		
33	Motorized Drop Armed Mechanism V3 (Waist Height)	30 02 01 0011		
35	VIP Mechanism V3 (505 - 605)	30 02 02 0010		
36	VIP Mechanism V3 (705)	30 02 02 0011		
37	VIP Mechanism V3 (VP 125)	30 02 02 0012		

**Units with magnetic encoder do not include direction sensor (ref 1)

 **Use only original Ozak replacement parts!**



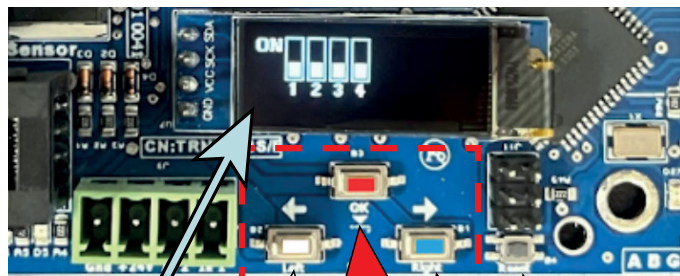
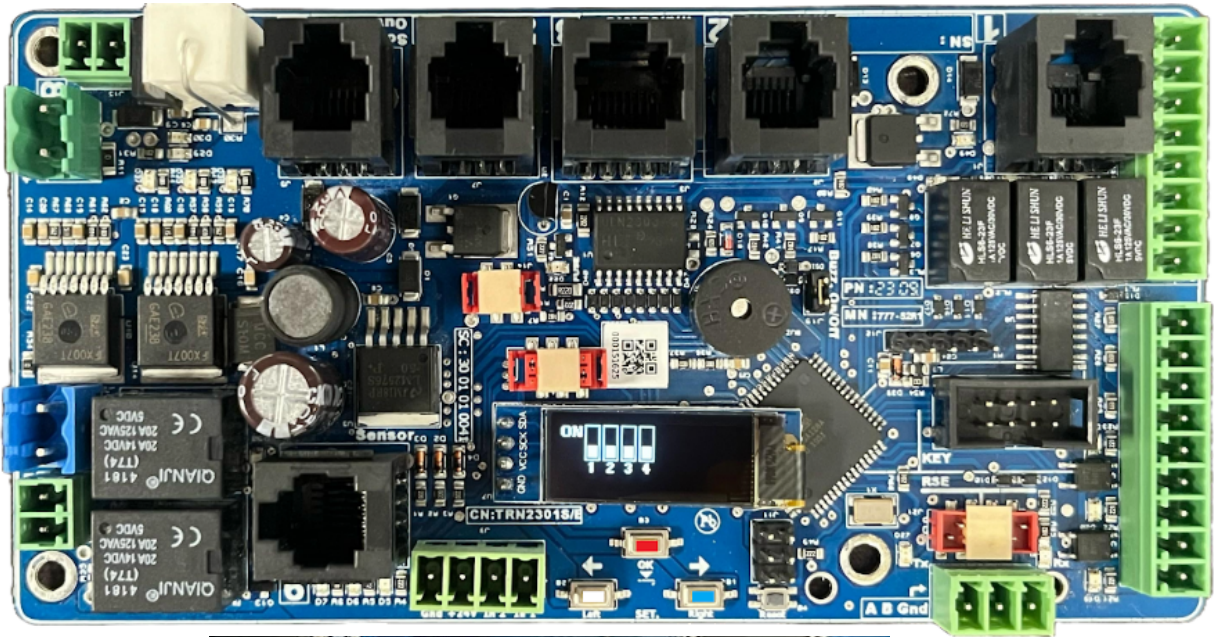
* Please provide model and serial number of the turnstile when ordering parts.

**Specify firmware code for microprocessor orders !

Parts may vary according to model and manufacturing date !

9. SERVICE MODE SETTINGS

9.1 WAIST HEIGHT TURNSTILE Service Mode Settings



DISPLAY

























































LEFT OK / ENTER RIGHT RESET
BUTTON BUTTON BUTTON BUTTON

SETTING ENTRY
BUTTONS

Press **RIGHT** button to show DIP switch state.
 Press **LEFT** button to show analog parameter settings
 Press **OK / ENTER** button to enter or change settings.
 Press **RESET** button to restart the system.

Do Not Save and Continue		Save and Continue	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Use the Left and Right buttons to select.	SAVE ? > Yes > No	SAVE ? > Yes > No	Use the Left and Right buttons to select.
	<input checked="" type="checkbox"/> Press Enter Button to Continue	<input checked="" type="checkbox"/> Press Enter Button to Continue	
	ON <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> 1 2 3 4	<< DATA SAVED >>	
	If you want to cancel the changes made, press the reset button.	ON <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> 1 2 3 4	
The system enters the save menu if no action is taken for 14 seconds after data change.			

9.1 WAIST HEIGHT TURNSTILE Service Mode Settings





























































Display	  OFF  ON	Function			
ON <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4	→	Stand-by Screen			
LEFT BUTTON    RIGHT BUTTON 	 OK / ENTER BUTTON - Press To Set DIP Switch State				
ON <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 TIME SEL. 6 Sec	ON <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 TIME SEL. 12 Sec	ON <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 TIME SEL. 18 Sec	ON <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 TIME SEL. Infinite	→	Timeout Select
LEFT BUTTON    RIGHT BUTTON 					
ON <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 PRG.SEL. A - B Locked	ON <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 PRG.SEL. A - B Single In.	ON <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 PRG.SEL. B >> A Free	ON <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 PRG.SEL. B << A Free	→	Program Selection
LEFT BUTTON    RIGHT BUTTON 					
ON <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7 <input type="checkbox"/> 8 MAG.SEL. A:Normal B:Normal	ON <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7 <input type="checkbox"/> 8 MAG.SEL. A:Reverse B:Normal	ON <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7 <input type="checkbox"/> 8 MAG.SEL. A:Normal B:Reverse	ON <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7 <input type="checkbox"/> 8 MAG.SEL. A:Reverse B:Reverse	→	Mag / Solenoid Working Mode
LEFT BUTTON    RIGHT BUTTON 					
ON <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7 <input type="checkbox"/> 8 IND.SEL. Normal	ON <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7 <input type="checkbox"/> 8 IND.SEL. Reverse			→	Side Indicator Working Mode
LEFT BUTTON    RIGHT BUTTON 					
ON <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7 <input type="checkbox"/> 8 IND.TYPE Standart	ON <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7 <input type="checkbox"/> 8 IND.TYPE Double Data			→	Side Indicator Type Select Single Data / Double Data
LEFT BUTTON    RIGHT BUTTON 					
ON <input type="checkbox"/> 9 <input type="checkbox"/> 10 <input type="checkbox"/> 11 <input type="checkbox"/> 12 INP.FREE Off	ON <input type="checkbox"/> 9 <input type="checkbox"/> 10 <input type="checkbox"/> 11 <input type="checkbox"/> 12 INP.FREE On			→	Free Pass by Input
LEFT BUTTON    RIGHT BUTTON 					
ON <input type="checkbox"/> 9 <input type="checkbox"/> 10 <input type="checkbox"/> 11 <input type="checkbox"/> 12 RLY.SEL. A:N.O. B:N.O.	ON <input type="checkbox"/> 9 <input type="checkbox"/> 10 <input type="checkbox"/> 11 <input type="checkbox"/> 12 RLY.SEL. A:N.O. B:N.C.	ON <input type="checkbox"/> 9 <input type="checkbox"/> 10 <input type="checkbox"/> 11 <input type="checkbox"/> 12 RLY.SEL. A:N.C. B:N.O.	ON <input type="checkbox"/> 9 <input type="checkbox"/> 10 <input type="checkbox"/> 11 <input type="checkbox"/> 12 RLY.SEL. A:N.C. B:N.C.	→	Relay Working Mode N.O. / N.C.
LEFT BUTTON    RIGHT BUTTON 					
ON <input type="checkbox"/> 9 <input type="checkbox"/> 10 <input type="checkbox"/> 11 <input type="checkbox"/> 12 EMG.SEL. N.C.	ON <input type="checkbox"/> 9 <input type="checkbox"/> 10 <input type="checkbox"/> 11 <input type="checkbox"/> 12 EMG.SEL. N.O.			→	Emergency Mode Select N.C. / N.O.
LEFT BUTTON    RIGHT BUTTON 					
ON <input type="checkbox"/> 13 <input type="checkbox"/> 14 <input type="checkbox"/> 15 <input type="checkbox"/> 16 FOT.AL.R. F1 & F2	ON <input type="checkbox"/> 13 <input type="checkbox"/> 14 <input type="checkbox"/> 15 <input type="checkbox"/> 16 FOT.AL.R. Not Used	ON <input type="checkbox"/> 13 <input type="checkbox"/> 14 <input type="checkbox"/> 15 <input type="checkbox"/> 16 FOT.AL.R. F1 or F2	ON <input type="checkbox"/> 13 <input type="checkbox"/> 14 <input type="checkbox"/> 15 <input type="checkbox"/> 16 FOT.AL.R. System Passive	→	Photocell Input for Alarm
LEFT BUTTON    RIGHT BUTTON 					
ON <input type="checkbox"/> 13 <input type="checkbox"/> 14 <input type="checkbox"/> 15 <input type="checkbox"/> 16 DROP.ARM System Passive	ON <input type="checkbox"/> 13 <input type="checkbox"/> 14 <input type="checkbox"/> 15 <input type="checkbox"/> 16 DROP.ARM Only Emg.	ON <input type="checkbox"/> 13 <input type="checkbox"/> 14 <input type="checkbox"/> 15 <input type="checkbox"/> 16 DROP.ARM Pwr.Fail Emg.	ON <input type="checkbox"/> 13 <input type="checkbox"/> 14 <input type="checkbox"/> 15 <input type="checkbox"/> 16 DROP.ARM Pwr.Fail Emg.	→	Drop Arm Mode Select
LEFT BUTTON    RIGHT BUTTON 					
ON <input type="checkbox"/> 17 <input type="checkbox"/> 18 <input type="checkbox"/> 19 <input type="checkbox"/> 20 MTR.CTRL Active	ON <input type="checkbox"/> 17 <input type="checkbox"/> 18 <input type="checkbox"/> 19 <input type="checkbox"/> 20 MTR.CTRL Passive			→	Motor Active / Passive
LEFT BUTTON    RIGHT BUTTON 					
ON <input type="checkbox"/> 17 <input type="checkbox"/> 18 <input type="checkbox"/> 19 <input type="checkbox"/> 20 RND.CTRL A:Off B:Off	ON <input type="checkbox"/> 17 <input type="checkbox"/> 18 <input type="checkbox"/> 19 <input type="checkbox"/> 20 RND.CTRL A:Off B:On	ON <input type="checkbox"/> 17 <input type="checkbox"/> 18 <input type="checkbox"/> 19 <input type="checkbox"/> 20 RND.CTRL A:On B:Off	ON <input type="checkbox"/> 17 <input type="checkbox"/> 18 <input type="checkbox"/> 19 <input type="checkbox"/> 20 RND.CTRL A:On B:On	→	Random Sorter On / Off
LEFT BUTTON    RIGHT BUTTON 					
ON <input type="checkbox"/> 21 <input type="checkbox"/> 22 <input type="checkbox"/> 23 <input type="checkbox"/> 24 EXT.RLY. Only F1 & F2	ON <input type="checkbox"/> 21 <input type="checkbox"/> 22 <input type="checkbox"/> 23 <input type="checkbox"/> 24 EXT.RLY. All Alarms	ON <input type="checkbox"/> 21 <input type="checkbox"/> 22 <input type="checkbox"/> 23 <input type="checkbox"/> 24 EXT.RLY. Only Busy Out	ON <input type="checkbox"/> 21 <input type="checkbox"/> 22 <input type="checkbox"/> 23 <input type="checkbox"/> 24 EXT.RLY. All Alarms	→	External Relay Mode Select

9.1 WAIST HEIGHT TURNSTILE Service Mode Settings

Display		Function
ON →		Stand-by Screen
LEFT BUTTON RIGHT BUTTON	OK / ENTER BUTTON - Press To Set Analog Parameter Settings	
< MOTOR SPEED > [Push enter to set]	>> MOTOR SPEED << Min : 5 % Max : 100 Set: 75	→ Motor Speed Adjust
LEFT BUTTON RIGHT BUTTON		
< TIME OUT > [Push enter to set]	>> TIME OUT << Min : 0 Sec. Max : 50 Set: 0	→ Special Timeout Selection
LEFT BUTTON RIGHT BUTTON		
< INPUT BUFFER > [Push enter to set]	>> INPUT BUFFER << Min : 0 Per. Max : 20 Set: 1	→ Input Buffer Count Selection
LEFT BUTTON RIGHT BUTTON		
< IDNUM SELECT > [Push enter to set]	>> IDNUM SELECT << Min : 1 Set: 1 Max : 99	→ ID Num Selection for Communication
LEFT BUTTON RIGHT BUTTON		
< RND.SORTER A > [Push enter to set]	>> RND.SORTER A << Min : 5 Per. Max : 250 Set: 250	→ Random Sorter Count Select
LEFT BUTTON RIGHT BUTTON		
< RND.SORTER B > [Push enter to set]	>> RND.SORTER B << Min : 5 Per. Max : 250 Set: 250	→ Random Sorter Count Select
LEFT BUTTON RIGHT BUTTON		
< RELAY TIME > [Push enter to set]	>> RELAY TIME << Min : 5 1/10s Max : 30 Set: 5	→ Direction Relay Out Time Selection
LEFT BUTTON RIGHT BUTTON		
< COUNTER A > [Push enter to set]	< COUNTER A > Push L/R 2 sec to res.	>> COUNTER A << 0000001 →
LEFT BUTTON RIGHT BUTTON		
< COUNTER B > [Push enter to set]	< COUNTER B > Push L/R 2 sec to res.	>> COUNTER B << 0000000 →
LEFT BUTTON RIGHT BUTTON		
< FIX COUNTER A > [Push enter to set]	< FIX COUNTER A > Non-resettable	>> FIX COUNTER A << 0000001 →
LEFT BUTTON RIGHT BUTTON		
< FIX COUNTER B > [Push enter to set]	< FIX COUNTER B > Non-resettable	>> FIX COUNTER B << 0000000 →
LEFT BUTTON RIGHT BUTTON		
< MAS12 STATUS > [Push enter to set]	>> MAS12 STATUS << Pos : 1 Mag.Field : 2127	→ Position Sensor Values for Checking
LEFT BUTTON RIGHT BUTTON		
< MT.BRK.SPEED > [Push enter to set]	>> MT.BRK.SPEED << Min : 50 Val. Max : 100 Set: 90	→ Motor Brake Speed
LEFT BUTTON RIGHT BUTTON		
< SYS.DIAGNOSTIC > [Push enter to set]	>> SYS.DIAGNOSTIC << Starting Diagnostic	Mag A Checking... Ok Mag B Checking... Ok Motor Checking... Ok Side Ind A Checking... Ok Side Ind B Checking... Ok Top Ind A Checking... Ok Top Ind B Checking... Ok → System Diagnostic
LEFT BUTTON RIGHT BUTTON		
< RESET MEMORY > [Push enter to set]	>> RESET MEMORY << CAUTION! This action will erase ALL DATA	>> RESET MEMORY << To cancel Press the OK button ... >> RESET MEMORY << To continue Hold the L/R buttons for 2 seconds → Memory Reset Input
	↓ If the L/R buttons are held for 2 seconds ↓	
PROCEED ? > Yes > No	PROCEED ? > Yes > No	Processing... % 0 ... TP03xx → Memory Reset Process

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9.2 VIP Service Mode Settings

Display	  OFF  ON	Function			
ON <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> 1 2 3 4	→	Stand-by Screen			
LEFT BUTTON     RIGHT BUTTON <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	 OK / ENTER BUTTON - Press To Set DIP Switch State				
ON <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> TIME SEL. 1 2 3 4 6 Sec.	ON <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> TIME SEL. 1 2 3 4 2 Sec.	ON <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> TIME SEL. 1 2 3 4 12 Sec.	ON <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> TIME SEL. 1 2 3 4 Infinite.	→	Timeout Select
LEFT BUTTON     RIGHT BUTTON					
ON <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> EMG.DIR. 1 2 3 4 A << B	ON <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> EMG.DIR. 1 2 3 4 A >> B			→	Emergency Direction
LEFT BUTTON     RIGHT BUTTON					
ON <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> CLOSE BT 1 2 3 4 Different Input	ON <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> CLOSE BT 1 2 3 4 Same Input			→	Panel Close Button Selection
LEFT BUTTON     RIGHT BUTTON					
ON <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> MAG.SEL. 5 6 7 8 A:Normal B:Normal	ON <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> MAG.SEL. 5 6 7 8 A:Reverse B:Normal	ON <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> MAG.SEL. 5 6 7 8 A:Normal B:Reverse	ON <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> MAG.SEL. 5 6 7 8 A:Reverse B:Reverse	→	Mag / Solenoid Working Mode
LEFT BUTTON     RIGHT BUTTON					
ON <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> IND.SEL. 5 6 7 8 Normal	ON <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> IND.SEL. 5 6 7 8 Reverse			→	Side Indicator Working Mode
LEFT BUTTON     RIGHT BUTTON					
ON <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> NO FUNCTION 5 6 7 8	ON <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> NO FUNCTION 5 6 7 8			→	No Function
LEFT BUTTON     RIGHT BUTTON					
ON <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> NO FUNCTION 9 10 11 12	ON <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> NO FUNCTION 9 10 11 12			→	No Function
LEFT BUTTON     RIGHT BUTTON					
ON <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> RLY.SEL. 9 10 11 12 A:N.O. B:N.O.	ON <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> RLY.SEL. 9 10 11 12 A:N.O. B:N.C.	ON <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> RLY.SEL. 9 10 11 12 A:N.C. B:N.O.	ON <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> RLY.SEL. 9 10 11 12 A:N.C. B:N.C.	→	Relay Working Mode N.O. / N.C.
LEFT BUTTON     RIGHT BUTTON					
ON <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> EMG.SEL. 9 10 11 12 N.C.	ON <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> EMG.SEL. 9 10 11 12 N.O.			→	Emergency Mode Select N.C. / N.O.
LEFT BUTTON     RIGHT BUTTON					
ON <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> FOT.AL. 13 14 15 16 F1 & F2	ON <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> FOT.AL. 13 14 15 16 Not Used	ON <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> FOT.AL. 13 14 15 16 F1 or F2	ON <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> FOT.AL. 13 14 15 16 System Passive	→	Photocell Input for Alarm
LEFT BUTTON     RIGHT BUTTON					
ON <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> EXT.RLY. 13 14 15 16 Only F1 & F2	ON <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> EXT.RLY. 13 14 15 16 All Alarms	ON <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> EXT.RLY. 13 14 15 16 Only Busy Out	ON <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> EXT.RLY. 13 14 15 16 All Alarms	→	External Relay Mode Select
LEFT BUTTON     RIGHT BUTTON					
ON <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> NO FUNCTION 17 18 19 20	ON <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> NO FUNCTION 17 18 19 20			→	No Function
LEFT BUTTON     RIGHT BUTTON					
ON <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> RND.CTRL 17 18 19 20 A:Off B:Off	ON <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> RND.CTRL 17 18 19 20 A:Off B:On	ON <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> RND.CTRL 17 18 19 20 A:On B:Off	ON <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> RND.CTRL 17 18 19 20 A:On B:On	→	Random Sorter On / Off
LEFT BUTTON     RIGHT BUTTON					
ON <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> TRN.TYPE 17 18 19 20 VIP	ON <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> TRN.TYPE 17 18 19 20 GLA			→	Type of Turnstile

10. WARRANTY and CE DECLARATION OF CONFORMITY

10.1 Warranty Terms and Conditions

CAME Özak (manufacturer) shall guarantee the purchased product against manufacturing defects for a period of two years (24 months) from the date of purchase on the following conditions. These warranty terms and conditions are applied when they are compatible with consumers and traders in terms of law, the rights and the liabilities that are stated within the context of the warranty terms and conditions cannot be interpreted as wider rights and authorities for consumers and traders.

1. Warranty coverage is in form of supplying free of charge replacement parts only.
2. Availability of the spare parts for a fee by the manufacturing company is guaranteed for ten (10) years following the manufacturing date of the product.
3. Any failures resulting from incorrect installation, misuse, physical damage, tampering, unauthorized modification or repair attempt shall void the warranty.
4. If the product fails within the warranty period, duration of repair is added to the warranty period.
5. Manufacturing company supplies required replacement parts to repair defects and failures during the warranty period in accordance with the terms stated herein. Expiration time for the warranty of the parts replaced within the warranty period is the same as that of the product. The parts are supplied to the authorized dealer/service center only.
6. It is the customer's responsibility to ensure that any technical service or maintenance work is carried out in accordance with the terms stated herein by properly trained qualified technical personnel using proper tools and original replacement parts.
7. The customer must retain the warranty certificates, serial numbers and present them to the authorized service personnel when required. Serial number of the product is required when replacement parts are ordered from the manufacturer to determine warranty status and correct replacement parts/program versions for the product.
8. All replacement parts sold by the manufacturer are warranted for a period of one year following the date of purchase, excluding failures resulting from physical damage, incorrect installation, misuse, tampering and similar reasons beyond manufacturer's control.
9. The specified warranty periods are based on the condition that the product is properly installed, operated and maintained in accordance with the installation, operation and maintenance instructions of the manufacturer as outlined in the relevant technical documentation of the product. Such documentation is provided with the product or it can be obtained from the manufacturer upon request.

10.2 Cases and Items listed below are excluded from the coverage of the warranty

1. No warranty shall apply to damages and failures that occur as a result of circumstances beyond manufacturers control including shipping damage, damage or failures caused by improper installation, wiring, insulation, power application or power surges, electromagnetic fields , product(s) that have been modified or altered in any way, damage caused by corrosives, abrasion, or severe temperatures, or product(s) that have been subjected to improper maintenance, storage, abuse, misuse, abnormal usage, insect, pest and/or rodent damage, or accident.
2. Any tampering or damage on warranty certificate or serial numbers and labels that prevent the identification of the product.
3. Any modifications, addition of accessories and parts, or replacement of parts without approval of manufacturer.
4. Consumables and regular replacement items such as lubricants, fluids, filters, paint, stickers, reflective tape, batteries etc., and cases of cosmetic damage, signs, stickers, scratches, paint damage and wear, fading, normal wear and tear, stains and deformation by external causes.
5. **Any damage and failure resulting from any of the conditions listed below;**
 - a. Operator error, misuse, abuse, deliberate act or negligence, lack of maintenance, inappropriate storage conditions,
 - b. Accidental damage that occur during transportation, installation or at the location where product is installed,
 - c. Any damage, scratches or breakage of glass, acrylic, polycarbonate etc. parts,
 - d. Damage by exposure to corrosives such as salt, salt water, harsh chemicals and abrasives,
 - e. Failures and damages caused by improper installation, wiring, insulation, short circuit, power surge, incorrect power source/ voltage/ phase applications, improper grounding, induction current effects, electromagnetic interference,
 - f. Maintenance, repair, additions or replacement of parts and accessories or moving the product from original place by unauthorized personnel or company, and lack of periodic maintenance of the product as recommended by the manufacturer,
 - g. Shipping, handling and installation related damages and failures,
 - h. Failures as a result of exposure to extreme environmental conditions contrary to the stated technical specifications of the product such as extreme temperatures, humidity, surface irregularities, winds, flooding, sand storms, ice and snow cover, mud and similar factors that can hamper normal operation of the product,
 - i. Damage and failures resulting from using the product outside its intended purpose or limits,
 - j. Failures and damages caused by exposure of the product and its components to contaminants such as water, corrosives, sand, mud etc.,
 - k. Damage/ failures caused by pests such as rodent damage to wiring and electrical components,
 - l. Damages and failures caused by lightning, flood, fire, storm, hurricanes, earthquake and similar natural disasters,
 - m. Damages that occur as a result of circumstances beyond reasonable control of the manufacturer or the user (armed conflicts, civil unrest, blockade, revolution, insurrection, mobilization, looting etc.),
 - n. **Failures or damages resulting from incompatible, defective, or incorrectly connected external devices (Card readers, terminals, indicators, communications devices etc.) or feeding of such devices from the control board or power supply inside the product,**
 - o. Failures caused by leakage of water into the internal parts of the product due to physical damage, application of pressurized water, unauthorized modification, improper installation, and exposure to unsuitable environmental conditions contrary to the stated technical specifications of the product (IP grade).

CE UYGUNLUK DEKLARASYONU / CE DECLARATION OF CONFORMITY



ÜRETİCİ FİRMA/
MANUFACTURER COMPANY : ÖZAK GEÇİŞ TEKNOLOJİLERİ SANAYİ TİC. A.Ş.
ADRES/ADDRESS : ÇUHANE CAD. NO: 130 41080 KÖSEKÖY/KOCAELİ/TÜRKİYE

Aşağıda adı geçen ürünlerin üretimi, kontrolü ve son değerlendirmeleri ÖZAK tarafından gerçekleştirilmektedir.
Manufacturing, control and final assessment of the below mentioned products are done by ÖZAK.

ÜRÜN LİSTESİ/LIST OF PRODUCTS

Açıklamalar/Explanations: TURNİKELER (BEL TİPİ TURNİKELER / BOY TİPİ TURNİKELER / HIZLI GEÇİŞ TURNİKELERİ / ENGELLİ GEÇİŞ TURNİKELERİ / YÜKSEK GÜVENLİK TURNİKE VE KAPILARI / YARIM BOY TURNİKELER / GEÇİŞ KAPILARI / SPC ÖZEL DİZAYN TURNİKELER / SERBEST GEÇİŞ TURNİKELER)
TURNSTILES (WAIST HEIGHT TURNSTILES / FULL HEIGHT TURNSTILES / SPEED GATES TURNSTILES / REVOLVING WING GATES TURNSTILES / SECURITY DOORS AND TURNSTILES / HALF HEIGHT TURNSTILES / PEDESTRIAN GATES / SPECIAL DESIGN TURNSTILES / FREE PASSAGE (RETAIL LINE) TURNSTILES)

İlgili Direktifler/Relevant Directives:

(2006/42/EC) Makine Yönetmeliği / Machinery Directive,
(2014/30/EU) Elektromanyetik Uyumluluk Yönetmeliği / Electromagnetic Compatibility Directive

HARMONİZE STANDARTLAR'a Göre Uygulanmış Yönetmelikler/
Regulations applied according to HARMONIZED STANDARDS :EN ISO 12100:2010, EN 60204-1:2018, EN ISO 13857:2019
EN ISO 14120:2015, EN ISO 13854:2019, EN 61000-6-1:2019,
EN IEC 61000-6-3:2021

ÖZAK GEÇİŞ TEKNOLOJİLERİ SANAYİ TİC. A.Ş. yukarıda listesi verilen ürünlerin 2006/42/EC Makine Yönetmeliği ile 2014/30/EU Elektromanyetik Uyumluluk Yönetmeliği ve ilgili harmonize standartların gerekliliklerini sağladığını ve uygunluğunu beyan eder.

ÖZAK GEÇİŞ TEKNOLOJİLERİ SANAYİ TİC. A.Ş. hereby declare that the above listed products satisfy and comply with the requirements of Harmonised Standards for 2006/42/EC Machinery Directive and 2014/30/EU Electromagnetic Compatibility Directive.

İsim/Name : SERAP DÖNMEZ Ünvan/Title : GENEL MÜDÜR / GENERAL MANAGER
Yer ve Tarih/Place and Date : KOCAELİ / 12.02.2025 İmza/Signature



Warranty Certificate

BRAND NAME :

MODEL :

DATE OF DELIVERY :

WARRANTY PERIOD :

SERIAL NUMBER :

MANUFACTURER : ÖZAK GEÇİŞ TEKNOLOJİLERİ SANAYİ TİC A.Ş.
ADDRESS : ÇUHANE CD. NO: 130 41080 KÖSEKÖY / KOCAELİ / TÜRKİYE
PHONE & FAX : +90 262 373 48 48 Pbx.
E-MAIL : ozak@ozak-t.com
WEB : www.ozak-t.com



DISPOSAL PROCESS

As **CAME ÖZAK**, we see fulfilling all our obligations within the scope of environmental legislation as one of the fundamentals of our business.

DISPOSAL METHOD OF PACKAGING MATERIALS

Packaging materials such as cardboard, plastic, pallets, etc. are recyclable waste and should be sent for recycling within the scope of relevant legislation. Please check that the waste is properly separated at the source.

DISPOSAL METHOD OF THE PRODUCT WHICH IS COMPLETED LIFETIME

CAME ÖZAK products are manufactured from various materials. These materials consist of aluminum, plastic, iron, steel, electronic materials, batteries, hydraulic oil, etc. If the product reaches the end of its life, send it to licensed recycling companies after separation of the product at its source.



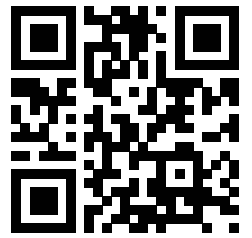
ÖZAK



Google Map



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