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MANUFACTURER:

POLİMEK Elektronik ve Bilgisayar Teknolojileri Paz. San. ve Tic. A.Ş.



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1.1 Preface

Thank you for choosing the products of **Polimek** 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.

Polimek Technical Service Department Tel:+902323281645(pbx) Ext:131-132 E-mail: destek@polimek.com.tr

Polimek 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.

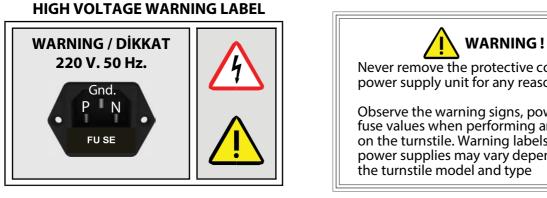
Our turnstiles are certified with "TSEK product quality" (A Turkish certification of quality) and CE Declaration of Conformity.

1.3 Waist Height Turnstile Models



2.1 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!



GROUNDING SYMBOL



POWER CONNECTOR FRONT VIEW

Gnd

Ν

Never remove the protective cover of the power supply unit for any reason! Observe the warning signs, power and fuse values when performing any work on the turnstile. Warning labels and power supplies may vary depending on



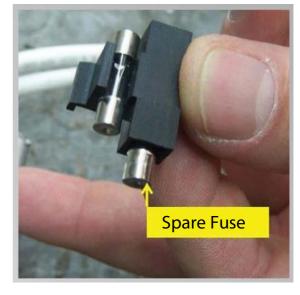
24 V DC POWER SUPPLY

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

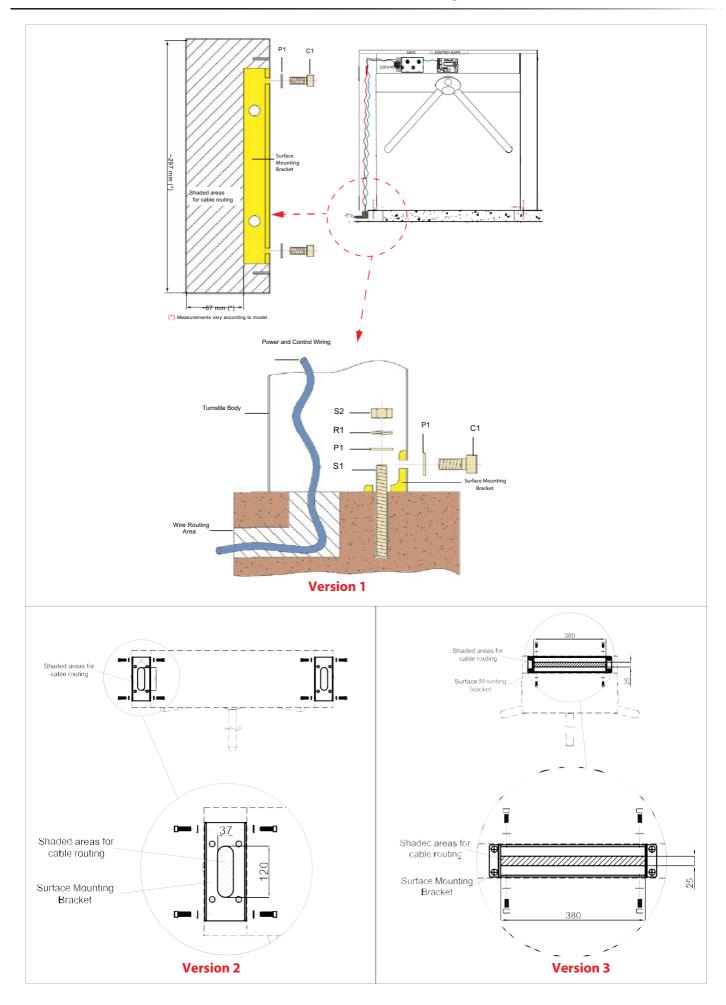
- 1. Please pay special attention to carry the turnstiles as originally packed by the manufacturer.
- 2. Follow the handling and carrying instructions written on the package.
- **3.** Do not place a heavy load on the turnstile package.
- 4. Do not place the packed turnstile on a wet ground.
- 5. Do not 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.

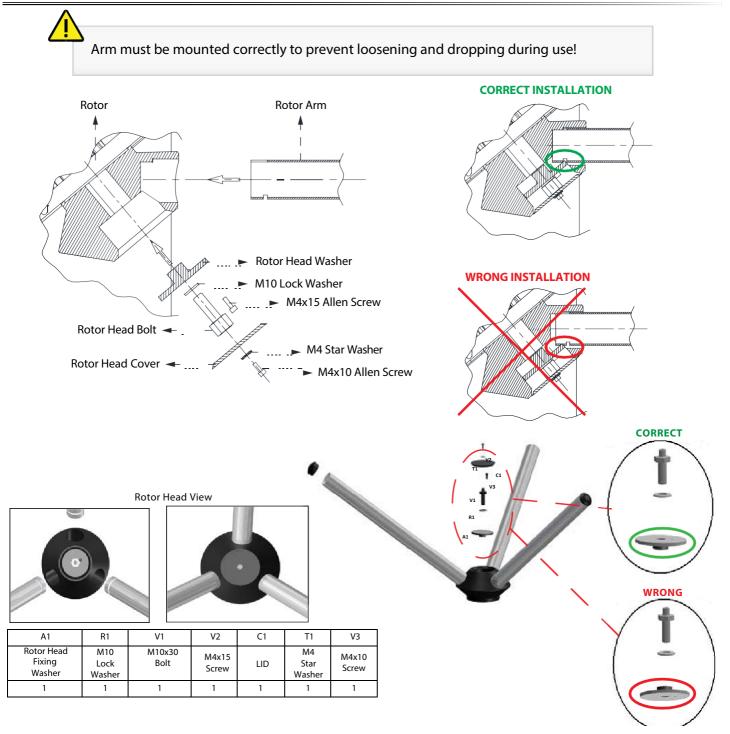
3.2 Installation

- 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





3.4 Arm Mounting (Drop Arm Models)

Seat the arm on the rotor



2. Place Allen screws (2 pcs) 3. Tighten screws with 5 mm. keys



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	MECH	ANISM	OP	ERATIONAL FEATU	RES	MATERIALS				
MODELS	MANUEL	MOTORIZED	MOVEMENT	LOCK CONTROL	STOPPING	MAIN ROTOR	ARM /	WING	LOCKS	
400 E	х									
400 BUS	х									
602 / 602 D	х									
500 E / 500 E-D	х									
500 E N1 / 500 E-D N1	х		Manuel Push		Hydraulic		Chrome/*	2.4 mm c		
702 B	х		(opt. Motor)		Damper			3 Arms		
700 E / 700 E-D	х			Solenoid Polyamide + Steel	Polyamida					
700 E N1 / 700 E-D N1	х					+			Polyamide	
700 R	х				Steel					
FKR 777	х						Acrylic / Other**			
605 / 605 D		х								
705 E / 705 E-D		х								
705 E N1 / 705 E-D N1		х	Motor		Motor			1 Wing		
715 E	715 E X							1 Wing		
715 B		х					Chrome/*			
SWG 101	х				Spring				Steel	
MRKT 404	х		Push	Locked Ball Bearing		Steel		4 Arms		
702 R / 702 R N1		х	Motor	Solenoid	Motor	Polyamide		3 Arms	Polyamide	

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



- 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 forvarious 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 syncronization 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 manuel 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



- Microprocessor controlled, bi-directional wide access system (Only 715-B ve 715-E models are uni-1. directional)
- 2. PWM DC motor driven system for guiet and efficient operation.
- Panel unlocks and opens 90° automatically in either direction when a contact is received on Input A or Input 3. 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 selfresets 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.

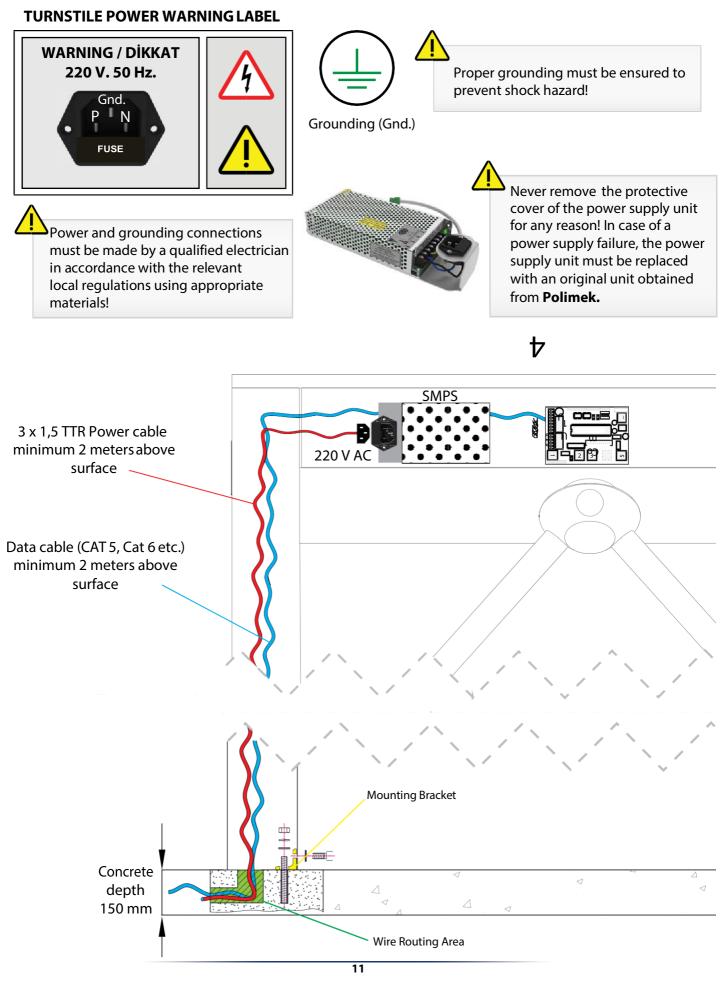
(1) Buzzer is heard when a passage is authorized. In addition to the side indicators, an optional top passage indicator is available which provides further guidance by a blinking green

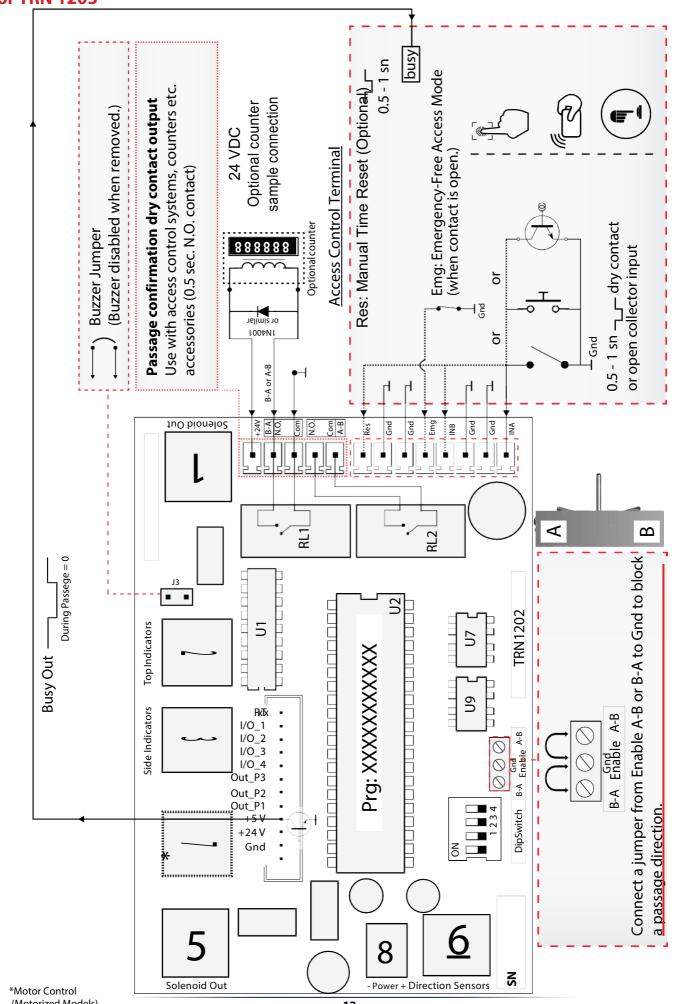
arrow during passage. In alarm mode the indicators alternately blink in red and green and buzzer is heard.

Standard Features									Opt	tional Featur	es / Accesso	ries					
MODEL		Indie	cators			Card							Alarm Unit				
		Pass	Guidance	Photocell	Coin System	Reader System	Remote Control	Dropping Arm	Heater Positive	Intercom Unit	Pressure	Earth Quake	Under Arm Passage	Climb Over Pasagge	Weight	Counter	Passage Limiter
	400 E	0	~	0	0	0	0	-	0	0	-	0	0	0	-	0	0
	400 BUS	0	~	0	0	0	0	-	0	0	-	0	0	0	-	0	0
	602 / 602 D	0	~	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 E / 500 E-D	0	~	0	0	0	0	0	0	0	0	0	0	0	0	0	0
[ripod	500 E N1 / 500 E-D N1	0	~	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Waist Height (Tripods)	702 B	~	~	0	0	0	0	0	0	0	0	0	0	0	0	0	0
/aist Ho	702 R / 702 R N1	~	~	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	700 E / 700 E-D	0	~	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	700 E N1 / 700 E-D N1	0	~	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	700 R	0	~	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	FKR 777	~	~	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	605 / 605 D	0	~	0	0	0	0	-	0	0	0	0	-	0	0	0	0
for bility	705 E / 705 E-D	0	~	0	0	0	0	-	0	0	0	0	-	0	0	0	0
Turnstiles for Reduced Mobility	705 E N1 / 705 E-D N1	0	~	0	0	0	0	-	0	0	0	0	-	0	0	0	0
Tur	715 E	0	~	0	0	0	0	-	0	0	0	0	-	0	0	0	0
	715 B	0	~	0	0	0	0	-	0	0	0	0	-	0	0	0	0
Free Passage	SWG 101	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Free Passag	MRKT 404	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

4.5 Equipment and Accessories

5.1 Power and Grounding Connections





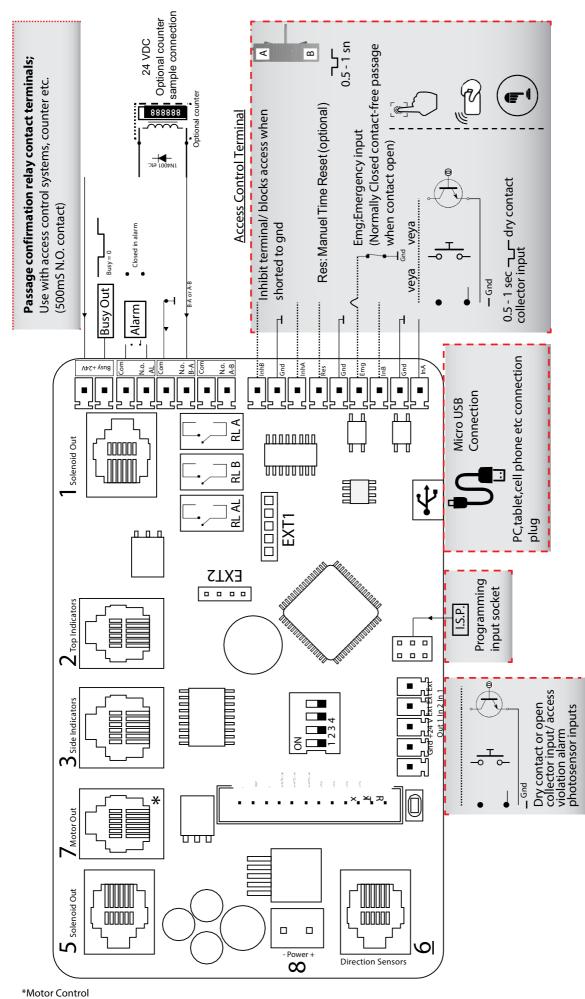
5.2 Control Board Inputs and Outputs

for TRN 1203

KK-1302-0001 R(5) 22.06.2020

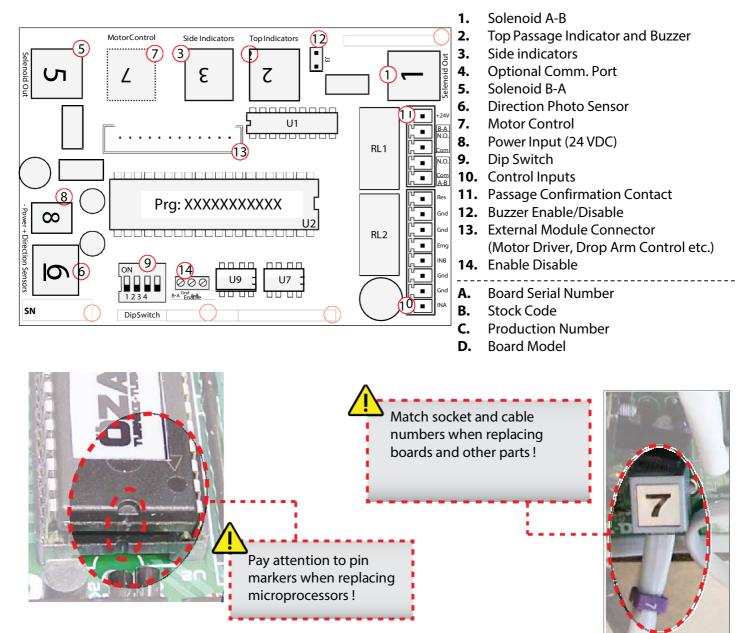
(Motorized Models)

for TRN 1901

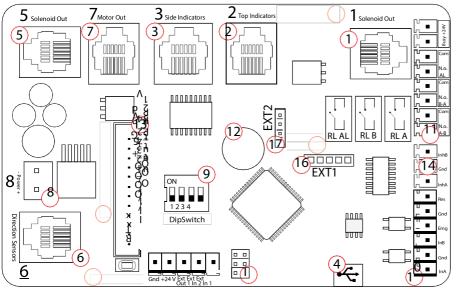


(Motorized Models)

for TRN 1203



for TRN 1901



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

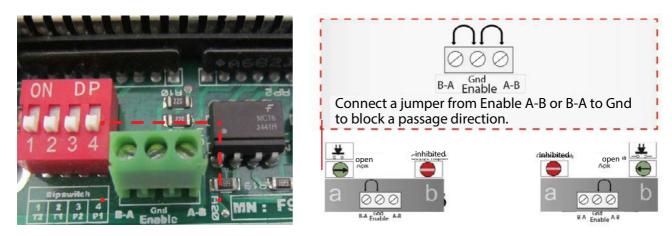


- 1. Solenoid A-B
- 2. Top Indicator
- 3. Side Indicator Outputs
- 4. USB Comm. Port
- 5. Solenoid B-A
- **6.** Direction Photosensor Inputs
- 7. Motor Control (Motorized Models)
- 8. Power Inpit
- 9. Dip Switch
- 10. Control Inputs
- 11. Passage Feedback Relay Outputs
- 12. Buzzer
- **13.** Auxiliary Modul Connections (Motor Drive, Drop Arm Control Board etc.)
- 14. Inhibit Terminal15. ISP Connection
- **16.** Extra Comms. Modul Connection
- **17.** Extra Connector
- **A.** Board Serial Number
- B. Stock Code
- **C.** Production Number
- D. Board Model

5.4.1 Blocking Passage Direction

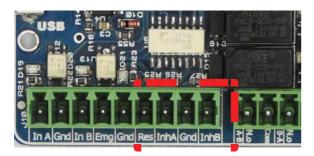
for TRN 1203

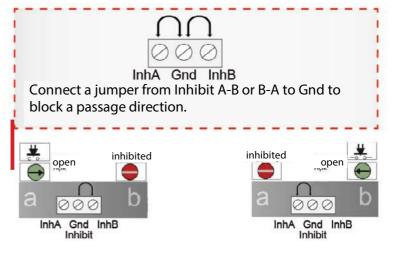
To block entry into A or B direction, short enable pins (J4,J5). Turnstile will not allow passage in the blocked direction and indicator for that direction will turn red to show blocked access. This feature can be used with a metal detector to automatically block access for security purposes or setting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



for TRN 1901

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

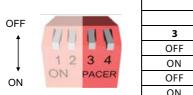
OFF

ON

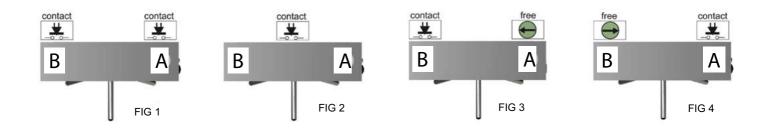
• Tripod Turnstiles: Time out and mode settings of the turnstile are selected by the dip switch located on the control board as explained below.

OFF		SWITCH NO	EXPLANATION
t	4000	1	TIME SETUP 1
	1234	2	TIME SETUP 2
ŧ	ON PACER	3	PROGRAM SETUP 1
ON	OIN PACEN	4	PROGRAM SETUP 2

		ТІМІ	E SETUP
		DIP	SWITCH
	1	2	TIME
	OFF	OFF	б sec.
1234	ON	OFF	12 sec.
ON PACER	OFF	ON	18 sec.
	ON	ON	INFINITY



	FUNTION (PROGRAM) SELECTION							
	DIPSWITCH							
	3	4	FUNCTION	DIAGRAM				
	OFF	OFF	Bi-directional operation	1				
3 4	ON	OFF	B-A free, A-B controlled access	4				
PACER	OFF	ON	Single input, activation in both directions	2				
	ON	ON	A-B free, B-A controlled access	3				



- 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.

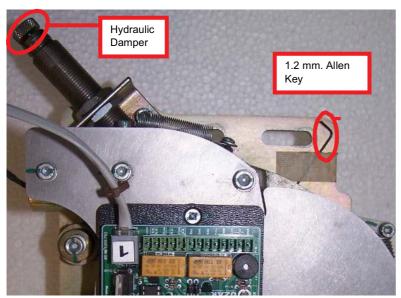
All other settings are as explained in table above



TSC Manager app allows quick access to turnstile settings with on/off switch options in the menu. TSC Manager application can be downloaded from google

playstore which is available in all android phones. Scan the QR code on the right to download TSC Manager application.

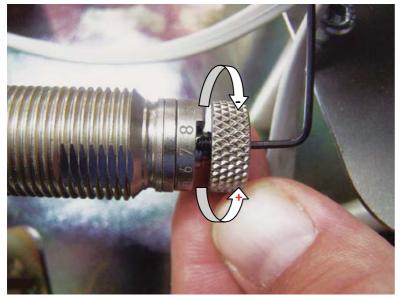




Damper Adjustment:

Due to large variations in ambient temperature or wear, the hydraulic damper adjustment may be required. Example; in very cold temperatures damping should to 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.

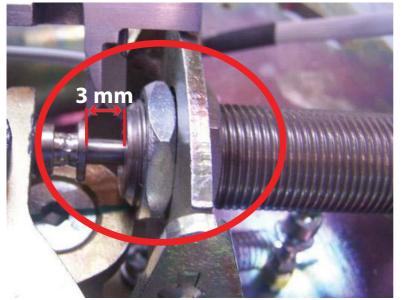


Note:

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	\checkmark	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 ets.)		
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 Polimek.
- Check that the turnstile is firmly anchored on the surface. (No loose or damaged anchoring).
 Check that all mechanical movement is smooth and guiet with no unusual noise, rattling etc.
- Check that all mechanical movement is smooth and quiet with no unusual noise, ratting 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.
- Polimek 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	Туре 304	Туре 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					
	Directional Photosensor	12 mth.	Check + Remove dust					
	Wiring and connectors	12 mth.	Check					
	Indicators and buzzer	12 mth.	Check					
	WIDE ACCESS/ DDA T	URNSTILES						
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					
	Directional photosensor	12 mth.	Check + Remove dust					
	Wiring and connectors	12 mth.	Check					
	Indicators and buzzer	12 mth.	Check					

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

Description of Fault	Possible Cause	Recommended Action
No power. (indicators, buzzer, locks off)	 No AC power supplied to unit Loose power cable Blown fuse Faulty power supply unit 	 Restore AC power Connect power cable Replace fuse (see 2.2) Replace power supply unit
Rotor freewheels when power is on Note: Ensure no contact on Emg. terminal and dip switches 3 and 4 are off	 Loose solenoid or photosensor connector Faulty photosensor Faulty solenoid Faulty control board Note: Periodic beep and red indicators indicate a loose or faulty photosensor 	 Re-insert connector Replace photosensor Replace solenoid Replace control board
Turnstile does not allow passage when input contact is given-buzzer heard	 Restricted lock lever movement (due to foreign object such as cable, gummed lubricant etc) Sticky solenoid Faulty control board Misaligned/bent photosensor in motorized units 	 Repair lever mechanism Replace solenoid Replace control board Adjust photosensor (motorized units)

Description of Fault	Possible Cause	Recommended Action		
Rotor/arms do not return to center (standby) position following a passage	 Loose or broken clamp spring Over damped hydraulic damper setting 	 Re-install / replace clamp spring Adjust hydraulic damper (see 5.5) 		
Rotor bounces back and forth following a rotation, fails to settle in rest position smoothly	 Under damped hydraulic damper setting Worn out / faulty hydraulic damper 	 Adjust hydraulic damper (see 5.5) Replace and adjust hydraulic damper 		
Turnstile fails to lock/ free wheels following passage	 Dislocated,broken lock lever Solenoid failure Loose or faulty photosensor 	 Repair/replace lock lever Replace solenoid Re-connect, replace photosensor 		
Rotor gets stuck intermittently during rotation	1. Loose or bloken ratchet spring	1. Re-install/ replace spring		
No response to input/reader device. No access	 Loose/incorrect reader connection Reader fault Faulty control board 	 Check/repair reader connections Replace faulty reader/input device Replace control board 		
No passage confirmation contact out of control board	 Loose connection at output terminal Faulty control board 	 Repair connection Replace control board 		
Turnstile freewheels in one direction	 Dip switch 3,4 might be set for free passage (see.5.4.2) Loose solenoid connector Loose lock lever spring Stuck/ broken lock lever 	 Set dip switches 'off' Re-insert connector Repair/ replace lock lever 		
Arm fails to drop in emg mode or when power is cut off. (Drop arm equipped models)	 Depleted/ weak 12V battery Loose battery connector Loose drop arm driver board-motor connection Jammed drop arm locking mechanism 	 Recharge/replace battery Restore battery connection Repair/tighten loose connection Repair jammed mechanism 		
Arm fails to lock in place/ drops by itself (drop arm equipped models)	 Jammed arm locking mechanism Loose/ deformed arm lock spring Damaged/worn arm locks 	 Repair jammed mechanism Repair/replace spring Replace arm locks 		
Turnstile unlocks upon input but motor does not work (motorized models)	 Loose motor/motor driver board connection Tripped motor driver protection circuit breaker (2xgreen leds lit) or blown fuse Faulty motor driver board Faulty motor 	 Repair/ tighten connection Do a power off reset/ replace blown fuse Replace motor driver board Replace motor 		
Motorized rotor/ panel keeps moving/ fails to stop in middle position.	 Loose photosensor connector Misaligned, bent or contaminated photosensor Faulty photosensor 	 Repair/tighten photosensor connector Adjust/ clean photosensor Replace photosensor 		
Motorized panel opens slowly and times out on return/ alarm activated	 Too low motor speed setting on motor driver board Loose or oil contaminated drive belt 	 Increase motor speed (turn speed control ccw direction) on motor driver board Clean/ tighten drive belt 		

8.1 Waist Height Model Turnstiles

Number	Part Code	Description	Standard	Motorized	Drop Arm	Motorized Drop Arm
1	45 00 00 0002	Arm (Stainless Steel)			\checkmark	\checkmark
2	20 03 01 0007	Arm (Stainless Steel)	\checkmark	\checkmark		
3	20 02 02 0323	Arm Cap (Stainless Steel)	\checkmark	\checkmark	1	\checkmark
4	10 01 38 0001	Battery				\checkmark
5	20 02 07 0007	Clamp Spring	\checkmark			
6	30 01 14 0001	Direction Photosensor (TDS23T+30)	\checkmark	\checkmark	1	\checkmark
7	30 01 04 0003	Drop Arm Board			1	\checkmark
8	10 01 34 0005	Drop Arm Motor			, ,	\checkmark
9	30 01 01 0020	Electronic Main Board	\checkmark	\checkmark		\checkmark
10	10 02 00 0001	Hydraulic Damper	\checkmark			
11	10 00 10 0003	Hydraulic Damper Bearing (698)	\checkmark		1	
12	*Code Varies with Serial Number	Indicator	\checkmark	\checkmark	1	\checkmark
13	20 02 07 0028	Lock Lever	\checkmark		<u> </u>	
15	20 02 03 0062	Lock Lever		\checkmark		\checkmark
14	10 01 23 0001	Microprocessor**	\checkmark	\checkmark	\checkmark	\checkmark
15	30 01 16 0005	Motor (24V DC / 35W)		\checkmark		1
16	10 04 19 0005	Motor Belt		<i>\</i>		1
17	30 01 03 0012	Motor Control Board (MC 24 SM)		<i>\</i>		1
18	20 02 03 0006	Polyamide Rotor Head	\checkmark		\checkmark	
19	20 02 03 0007	Rotor Head Cap	\checkmark		\checkmark	
20	45 00 00 0003	Rotor Mounting Set	\checkmark		\checkmark	
21	10 01 35 0017	SMPS (50W / 24V)	\checkmark		\checkmark	
22	10 01 35 0013	SMPS (100W / 24V)		\checkmark		\checkmark
23	30 01 10 0003	Solenoid (5V)	\checkmark	\checkmark	\checkmark	\checkmark
24	30 01 11 0004	Top Indicator (Type 1)	\checkmark	1	\checkmark	1
25	30 01 02 0121	Top Indicator (Type 2)	\checkmark	\checkmark	\checkmark	\checkmark

Use only original Polimek 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 !

? Wide Access / DDA Models - Turnstiles For Reduced Mobility

Number	Part Code	Description	605	605 D	705 E / 705 E N1	705 E D / 705 E D N1	715 E	715 B
1	30 01 14 0001	Direction Photosensor (TDS23T+30)	~	~	~	~	~	~
2	30 01 01 0020	Electronic Main Board	~	~	~	~	~	~
3	*Code Varies with Serial Number	Indicator	~	~	~	~	~	~
4	20 02 07 0027	Lock Lever	~	~	~	~	~	~
5	20 02 00 0080	Main Rotor Shaft	~	~	~	~	~	~
	20 02 12 0508	Main Rotor Shaft						
6	10 01 23 0001	Microprocessor**	~	~	~	~	~	~
7	30 01 16 0003	Motor (for 605)	~	~				~
	30 01 16 0004	Motor (for 705)			~	~	~	
8	10 04 19 0001	Motor Belt	~	~	~	~	~	~
9	30 01 03 0012	Motor Control Board (MC 24-24SM)	~	~	~	~	~	~
10	00 04 00 0006	Panel Holder Clamp	~	~	~	~	~	~
11	10 01 35 0013	SMPS (100W / 24V)	~	~	~	~	~	~
12	30 01 10 0003	Solenoid (5V)	~	~	~	~	~	~
13	30 01 11 0004	Top Indicator (Type 1)	~	~	~	~	~	~
14	30 01 02 0021	Top Indicator (Type 2)	~	~	~	~	~	~

Use only original Polimek replacement parts!



lease provide model and serial number of the turnstile when ordering parts. pecify firmware code for microprocessor orders ! arts may vary according to model and manufacturing date !

polimek

WARRANTY CERTIFICATE

In case of failure of the goods during the warranty period, the period of repair is added starts from the date of notification to the service station of the defective goods, if the service to the warranty period. The repair period of the goods is up to 30 working days. This period The warranty period starts from the delivery date of the goods and is 1 (one) year. station is not available to one of the sellers, dealers, agents, representatives, importers or All parts of the goods and the products itself are under our company's warranty. manufacturers of the goods.

In case of failure of the product due to both material and workmanship and installation errors during the warranty period, products shall be repaired without any charge for the replacement part or labour cost..

Malfunctions caused by the usage of the product beside explained in the user manual are not covered by the warranty.

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9.2 Warranty Terms and Conditions

- 1. Warranty period starts after the date of purchase of the goods and continues for twentyfour (24) months against manufacturing defects. Warranty coverage is in form of supplying replacement parts free of charge.
- 2. Availability of the spare parts by the manufacturing company is guaranteed for ten (10) years following the manufacturing date of the product.
- **3.** Any tampering, failures resulting from unauthorized modification or repair attempt and shall void the warranty.
- 4. Expiration time for the warranty of the parts replaced within the warranty period is the same as that of the turnstile.
- 5. When the turnstile fails within the warranty period, duration of repair is added to the warranty period.
- 6. Manufacturing company supplies required replacement parts to repair defects and failures during the warranty period in accordance with the terms stated herein. The parts are supplied to the authorized dealer/service center which has sold the product to end user.
- 7. It is the user's responsibility to check that technical services are carried out in accordance with the terms stated herein.
- 8. The user must retain the warranty certificates and present to the authorized service personnel when required.
- **9.** Users are expected to sign the failure report/ service forms that are filled after service/maintenance work performed under the warranty coverage.
- **10.** In case any dispute or problem related to the warranty is not resolved by the manufacturer, users can apply to the Republic of Turkey Ministry of Industry and Trade, Directorate General of Protecting Consumer Rights and Competition.
- **11.** All replacement parts sold by Polimek are warranted for a period of one year following the date of purchase, excluding failures resulting from physical damage, incorrect installation, misuse, tampering and similarreasons beyond manufacturers control.
- **12.** The specified warranty periods of all our products and MCBF's are valid in case of evidence that the periodic maintenances have been done as recommended by the manufacturer (minimum once every six months for motor driven products, minimum once a year for manual driven products and also considering the given maintenance processes and to be done by authorised technician trained by the manufacturer).

3 Cases Excluded from the Coverage of Warranty

Any tampering or damage on warranty certificate or serial numbers and labels that prevent the identification of the product shall void the warranty.

Any modifications, addition of accessories and parts, or replacement of parts without approval of manufacturer fall within the scope of tampering with the system, therefore terminates liability of the manufacturing company. Any damage and failure resulting from any of the conditions listed below are not covered by warranty:

a) Misuse, abuse, deliberate act or negligence,

b) Glass breakage,

- c) Failures caused by short circuit, power surge, incorrect wiring and voltage applications, improper grounding, change of phase group, induction current effects,
- **d)** Maintenance, repair, additions or replacement of parts and accessories or moving the turnstiles from original place by unauthorised personnel or corporation, and lack of annual maintenance of the products.
- e) Shipping and handling damages,
- **f)** Failures caused by exposure to unsuitable environmental conditions for the stated technical specifications of the product (temperature range, IP grade etc) such as excessively dusty, humid, dirty and other environments.
- **g**) Failures caused by leakage of water into the internal parts of the turnstile due to application of pressurized water on the product,
- **h**) Damage and failure caused by lightning, flood, fire, storm, hurricanes, earthquake and similar natural disasters,
- i) Accidents that occur at the location where the products are installed,
- j) 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.)
- **k)** THE DAMAGE OR FAILURES OCCURRING DUE TO FEEDING OF EXTERNAL DEVICES (CARD READERS, TERMINALS, INDICATIONS, COMMUNICATION DEVICES, ETC.) FROM THE CONTROL BOARD OR POWER SUPPLY UNIT INSIDE THE TURNSTILE.

9. CE DECLARATION OF CONFORMITY AND WARRANTY

9.4 CE Declaration of Conformity

CE UYGUNLUK DEKLARASYONU / CE DECLARATION OF CONFORMITY										
ÜRETICI FIRMA/ : POLIMEK ELEKTRONIK A.S MANUFACTURER COMPANY ADRES/ADDRESS : A.O.S.B. 10024 SK. NO: 9 ÇIGLI/IZMIR/TURKEY										
Aşağıda adı geçen ürünlerin üretimi, kontrolü ve son değerlendirmeleri POLİMEK tarafından gerçekleştirilmektedir. Manufacturing, control and final assessment of the below mentioned products are done by POLİMEK										
ÜRÜN LİSTESİ/LIST OF PRODUCTS										
Açıklamalar/Explanations:	nalar/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 Emniyet Yönetmeliği / <i>Machine Safety Directive,</i> (2014/35/EU) Alçak Gerilim Yönetmeliği / <i>Low Voltage Directive</i>										
	'a Göre Uygulanmış Yönetmelikler/ o HARMONIZED STANDARDS		I 60204-1.2006+A1:2009/AC:2010, I ISO 14120:2015, EN 349:1993+A1:2008.							
POLIMEK ELEKTRONIK A.Ş. yukarıda listesi verilen ürünlerin 2006/42/EC Makine Yönetmeliği, 2014/35/EU Alçak Gerilim Yönetmeliği ve ilgili harmonize standartların gerekliliklerini sağladığını ve uygunluğunu beyan eder.										
POLIMEK ELEKTRONIK A.S. <u>hereby</u> declare that the above listed products satisfy and comply with the requirements of Harmonised Standards for 2006/42/EC Machinery Directive and 2014/35/EU Low Voltage Directive.										
İsim/Name Yer ve Tarih/Place and Date	MESUT POLAT	Ünvan/Title : GE İmza/ <i>Sign</i> ature	NEL MÜDÜR/GENERAL MANAGER							





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