

# BAR BA

## BASIC CHARACTERISTIC



**BAR-BA** turnstile is a universal type of tripod turnstile that can be used in broad-spectrum of applications and environments. Modern design, safe and effective operating in combination with high-quality constructive processing are the main features that make **BAR-BA** turnstile necessary part of access control systems and persons identification. Turnstile **BAR-BA** is made by modern technology from bent stainless steel plates without any welding. Functional rustless design make possible to integrate the turnstile **BAR-BA** to any environments including exteriors. Modern control electronics enables the easy setting of its own turnstile operating mode and at the same time makes possible to communicate with different types of identification and signalling devices. **BAR-BA** turnstile in a motor version can be equipped with **ANTI-PANIC** function at the customer's request.

**TURNSTILE BAR-BA IS STANDARDLY SUPPLIED WITH THREE TYPES OF DRIVE UNIT:**

### Motor drive unit MT (standard)

This motorized version is characteristic by its high comfort, reliable and service-free running:

- Effective blocking system in combination with motor-driven unit
- Automatically adapts the turning speed depending on impulse energy whereby the passing person activates the turnstile
- Silent and fluent running
- Smooth slowing down and stopping the turnstile

Motor-driven unit is supplied in two variants:

- 1) **FAIL-LOCK:** turnstile is blocked during the power failure
- 2) **FAIL-SAFE:** the turnstile is unblocked for the free passing during the power failure

### Electromechanical unit TE2, TE-NB

The turnstile is controlled by electromechanical unit with the following functions:

- Active blocking system based on electromagnets enabling the passage to just one person
- Self-centering mechanism to ensure the complete turnstile turning to the basic position
- Hydraulic shock absorber for the fluent and smooth passage
- Blocking system prevents the turnstile reverse during passing
- Possible unit configuration during the power failure:

- 1) permanently blocked
- 2) unblocked for free passage

### Mechanical unit

This unit has the same characteristics like electromechanical unit with the difference that turnstile running is not controlled by any device. This type of turnstile is applied to regulate and control the number of passing people generally in one-direction.

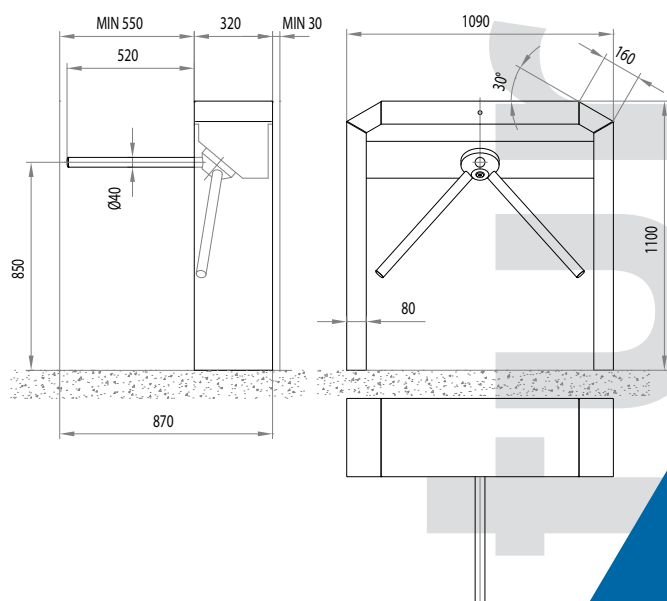
### TURNSTILE MATERIALS AND SURFACE TREATMENT:

Stainless steel sheet, thickness 1,5mm,  
surface-finish - brushed

**TURNSTILE TRIPOD HUB:** stainless steel.

**BARS:** stainless steel tube 40mm (brushed).

Other mechanical parts of turnstile are zinc galvanized or blackened.



## INTERFACE:

Turnstiles are controlled by microprocessor control electronics that communicates with superior control system by the help of the following input and output TTL signals:

- One input for each passage direction
- Output for signalling situation the turnstile in operation (BUSY)
- Two outputs signalling the actual passage through turnstile in existing direction (especially used for ANTIPASSBACK function)

Electronics of electromechanical power unit is except TTL outputs equipped with output relays.

When the motor drive unit is used, the electronics is equipped for each way of direction with input for permanent activation of free passing in existing direction and enables the time setting to realize the passage through turnstile at 6 or 10s (Time-out). Electronics are equipped with switch-off acoustic position signals the turnstile is running (BUSY). Control unit is protected against the short-circuit, overloading or mismatch of polarity.

### Operating modes

By virtue of signal from access control system or button controller it is possible to turn round the turnstile 120° and by that way enable the passing to one person. For each way of direction it is possible to define different operating modes:

1. **free passage** (Fail-Safe motor required)
2. **controlled passage**
3. **permanently blocked**

This setting can be set-up for any direction eventually for both directions at the same time.

## BASIC TECHNICAL PARAMETERS

Table of drive unit electric parameters

Type of drive unit	Rated supply voltage	Power supply at the basic turnstile mode		
		Standby	BUSY	Transit
Motorized FAIL-LOCK	12VDC	0,8W	10W	20 - 30W
Motorized FAIL-SAFE	12VDC	1W	1W	15 - 20W
Electromechanical without power blocked	24VAC/DC	2,5W	8W	8W
Electromechanical without power released	24VAC/DC	12W	8W	8W

- standard range of working temperatures: +10/ +50 °C
- range of working temperature with heating module: -25/+50°C
- range of storage temperatures: 0 .... +50 °C
- maximum relative humidity: 80% (non-aggressive environment)
- MCBF: 3.000.000 cycles (number of cycles before error)

The number of passages, in dependance on type of control electronics, operating mode and the way of identification of passing people, rates between 15 to 30 persons per minute.

Increase of power supply on motor drive unit with automatic heating module is 24W. The power supply can be also increased by using the optional accessories.



## OPTIONAL ACCESSORIES

### Guiding railings:

For the right function it is suitable to fill up the turnstile BAR with guiding railings with minimal length 850mm or install it to some suited object (for example: reception desk).

### Traffic-Light information panel:

- information about the turnstile accessibility in set direction
- information about transit permission based on evaluation by access control system

### Touch control panel

- remote manual control of the turnstile
- remote manual activation of **ANTI-PANIC** function

### ANTI-PANIC device:

By customer's request, the turnstile **BAR-BA** can be equipped with the **ANTI-PANIC** function that ensures automatic folding of the horizontal turnstile arm in the event of power failure or emergency. As a result there is a space needed for person's evacuation that agree with the safety regulations. The automatic folding of turnstile arm happens by virtue of impulse from fire alarm system, external button or during the power failure (it needs the connection of back-up accumulator and the unit monitoring the power supply status).

### Back-up accumulator:

During the power failure the accumulator ensures the turnstile working at least for a period of 6 hours of continuous operation (it can vary depending on accumulator capacity and age).

### Counter:

Turnstile can be equipped with the LCD passage counter.

### Identification systems:

In order to identify the passing people, it is possible to connect to these turnstiles **BAR-BA** any type of barcode, magnetic card, proximity chip card, contact chip card, biometrical sensor etc.

### Outdoor design:

- Special sealed turnstile construction for outdoor installation
- Automatic heating of drive unit controlled by thermosensor (necessary for turnstiles with motor drive units)