TURNSTILE

TM-BR2AL



GASTOP®



Modern form

reliable in every situation

Application Areas

Where time and security matter.



APPLICATION

A device designed to support access control in secured indoor areas.

EXAMPLE APPLICATIONS

- Ticket and access authorization checkpoints for passenger traffic
- Airports and seaports
- Staff-only access points and passenger flow direction control
- Entry authorization control points in secured buildings (e.g., government offices, border crossings, ministries, other public service facilities)
- Ticket and fee control points in museums, theaters, cinemas, exhibitions, trade fairs, entertainment venues, paid toilets
- Ticket control points in sports and leisure facilities such as swimming pools, stadiums, and arenas
- Access control and working time registration in workplaces (e.g., offices, factories, restricted zones within industrial facilities)

DEVICE FUNCTIONS



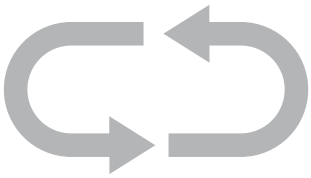
EASY SET-UP

Easy configuration of operating modes and functions via a control panel with display and manipulator.



LED PICTOGRAMS

Visual signaling (LED pictograms) indicates which movement directions within the passage section are enabled or disabled. A red cross indicates a blocked direction (the device prevents passage), while a green arrow indicates an open/unblocked direction.



OPERATION MODE

The device supports various operating modes, such as bidirectional pedestrian traffic control or control in a selected single direction.



PRECISION POSITIONING SYSTEM

The device is equipped with an electronic rotor position measurement system that allows the controller to operate the locking mechanism and control the smooth motion of the arms (in the model with electromechanical movement assistance).



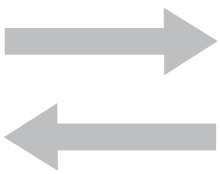
DROP ARM FUNCTION

Automatic arm drop function in the event of power failure (available in models equipped with the drop-arm module).



ARM ROTATION SUPPORT

The mechanism includes an electromechanical system that assists the rotational movement of the arms. When force is applied to the rotor arm (push), the motor is activated to assist the rotation to the end position.



BIDIRECTIONAL MOVEMENT

The device supports pedestrian access control in both directions — entry and exit from the secured area.



BLOCKADE

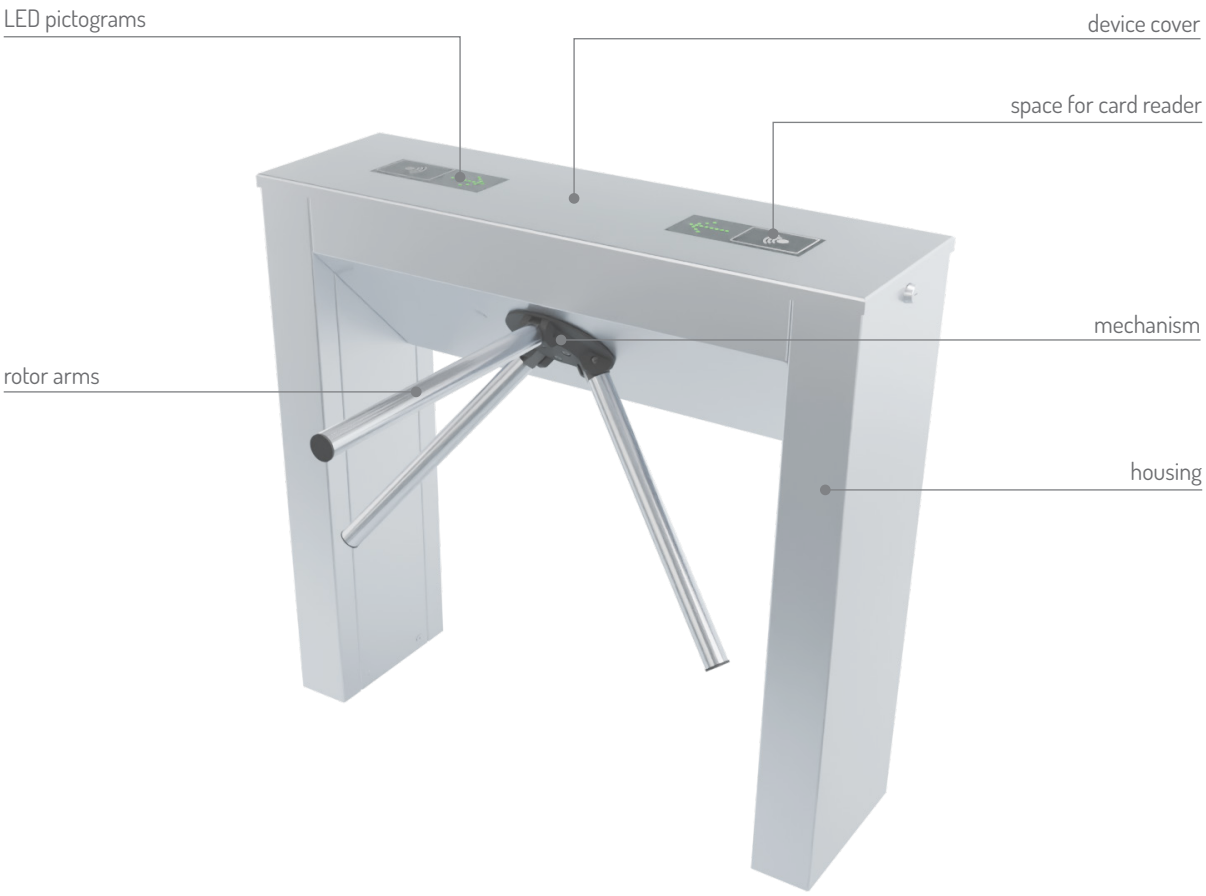
The device features a locking mechanism with a damping system, which significantly extends the lifespan of the mechanical components.



SECURITY SYSTEM

The device can be integrated with an intelligent building security system.

DEVICE DESCRIPTION



TECHNICAL PARAMETERS

MECHANISM

- Mechanical assistance of arm movement.
- Arm movement locking system.
- Precise rotor position measurement system.

CONSTRUCTION OF THE DEVICE

- The device's outer housing is made of AISI 304 stainless steel.

CONTROL SYSTEM

- Control input (0V signal) for each movement direction separately.
- Feedback output (0V signal) indicating that a person has passed through, based on an authorization signal.
- Higher-priority inputs for disabling the passage section (e.g., from a building management system).
- Highest-priority input for unblocking/opening the passage section (e.g., from a fire protection system).
- Additional features: memory of control signals during the operation cycle, LED indication, automatic calibration.

DEVICE MARKINGS

MODEL	FUNCTION
TM-BR2AL	Turnstile without "DROP ARM" function.
TM-BR2AL-DA	Turnstile with „DROP ARM" function.

OPTIONAL EQUIPMENT*

NAME	DESCRIPTION
Power supply	Power supply 230/24V
Control panel	Control panel for manual traffic control

**Optional equipment are not included with the device.*

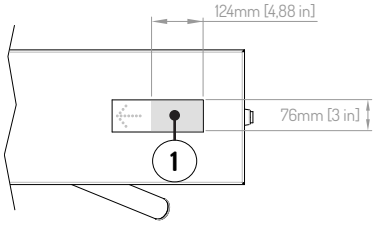
PARAMETERS

PARAMETER	VALUE
Power supply voltage:	24 V DC
Maximum power consumption:	120 VA
Maximum current power consumption:	5 A
Steering signal:	max. 1 sek
Feedback signal:	potential-free NO/NC
Operation temperature:	-25° to +50° C [-13° to 122°F]
Storage temperature:	-30° to +60° C [-22° to 140°F]
Environment humidity:	10-80%
Operation environment:	inside/outside buildings
IP protection rate:	IP 40
Net weight:	60 kg (132 lbs)**

***Approximate values - subject to configuration.*

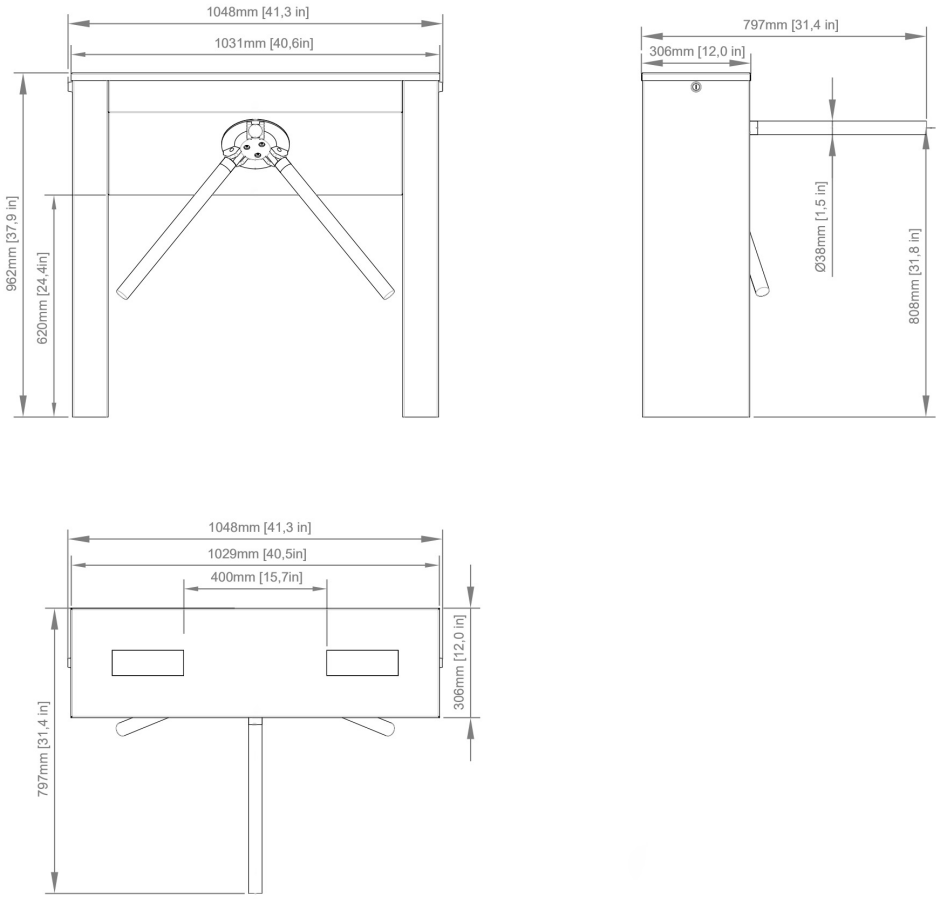
AREA FOR CARD READERS MONTAGE

(1) area for card readers montage
Material: plexiglass

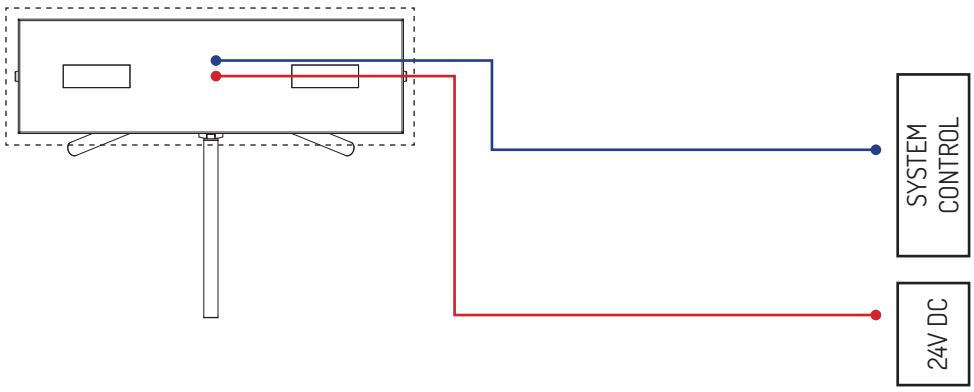


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DIMENSIONS



CONNECTIONS



KEY:

External control: via U/UTP twisted pair cable

Power supply: 24V DC – cable type 0WY 3x1.5 mm²

Mounting base

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