

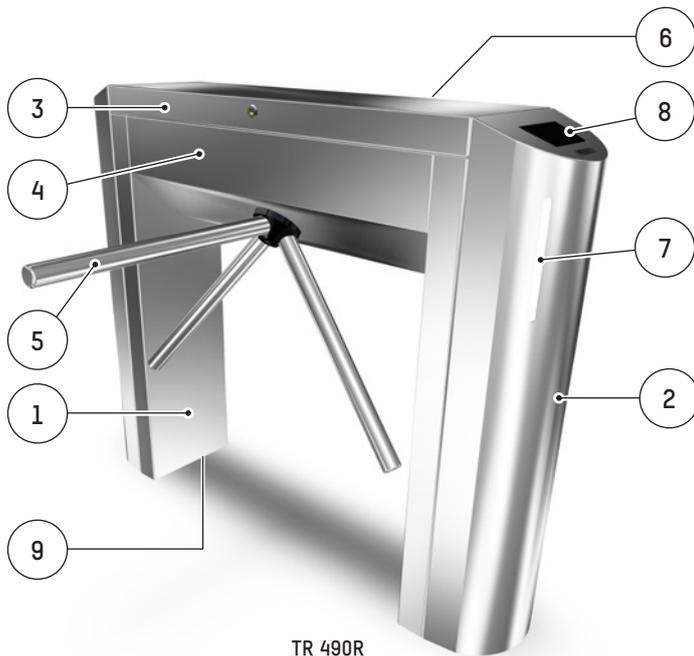
# TR 490R & 491R

**AUTOMATIC**  
SYSTEMS

## Technical datasheet

TR490R-491R-FT-EN-02

Access controlled...  
Future secured



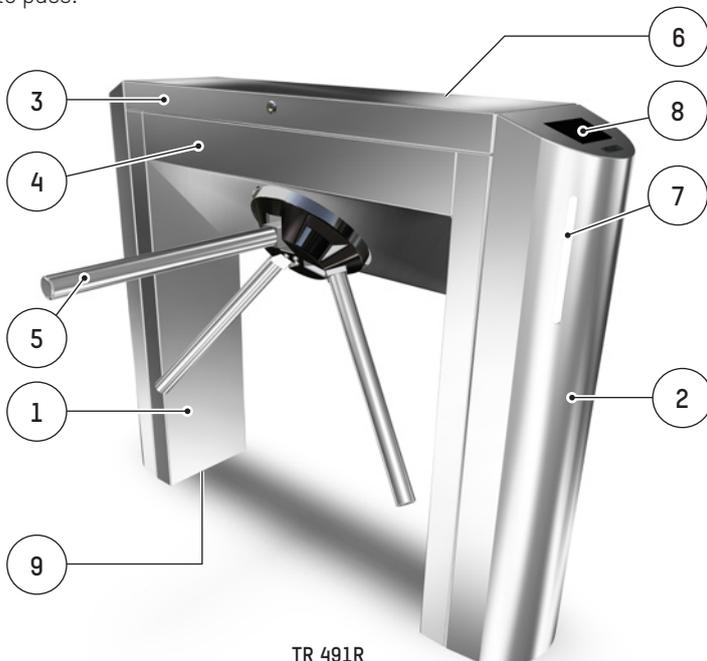
The TR 490R & TR 491R tripod turnstiles are designed for an economic and dissuasive access control and can incorporate access control devices such as: card readers, coin/token acceptors, ticketing systems, etc ...

Their mechanical design is strong and reliable. They exist in different configurations to suit all architectural requirements in terms of pedestrian access control.

The TR 491R turnstile includes an anti-panic device, which, in case of power failure, automatically unlocks the arm, which instantaneously drops. The access corridor is then fully free of any obstruction, thus allowing uninterrupted safe passage.

The repositioning of the arm is done manually when power supply is restored.

The TR 490R and TR 491R tripod turnstiles can be installed indoors or outdoors under a canopy, alone or in combination with others. They can be combined with a PPV 323 gate to allow persons of reduced mobility to pass.



## DESCRIPTION

1. AISI 316L stainless steel sheet frame.
2. Front and rear sections made of AISI 316L stainless steel locked from inside. These sections can not be opened before upper cover removal. They are designed to incorporate user control equipment such as card reader, coin acceptor, proximity reader, etc.
3. Upper cover in AISI 316L stainless steel with lock, to ease access to the turnstile mechanism and to open the columns.
4. Tripod turnstile mechanism with solid steel arms and capstan on ball bearings, protected by a black PVC hub cover. Electromagnetically operating locking bolts mounted on self lubricating bearings to lock arms. Hydraulic adjustable pressure movement shock absorber ensuring silent smooth operation and progressive slowing down of the arm rotation even when used with force. Reversed rotation prevented by the anti pass back device.
5. AISI 304 stainless steel arms with locking device preventing the arm from being removed without appropriate tools.
6. Programmable electronic control logic TR6.

Each gate is designed to accommodate:

7. orientation pictogram *(optional)*.
8. contactless card reader integration under a plexi screen *(optional)*.
9. Floor fixing by means of expansible plugs.

## OPERATION

The **TR 490R** turnstile can operate in 5 different modes.

1. Access permanently free
2. Access permanently mechanically locked
3. Access mechanically locked with automatic unlocking device to give free passage in case of power failure. *(Free-rotation)*
4. Electrically controlled access
5. Access electrically controlled with automatic unlocking device to give free passage in case of power failure. *(Free-rotation)*.

The **TR 491R** turnstile can operate in 3 different modes.

1. Access permanently free
2. Access permanently mechanically locked
3. Electrically controlled access.

All above operation modes include the arm dropping function providing free and unobstructed safe passage for users in case of power failure.

The mode of operation is defined by specifying the code number above for both directions, which corresponds to the operation selected *(see Conventions)*.

# TR 490R & 491R

Datasheet

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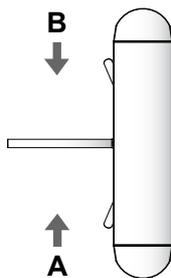
## CONVENTIONS

Direction A = housing at right hand side of the walkway

Direction B = housing at left hand side of the walkway

### Example:

Turnstile free in direction A and electrically controlled in direction B with automatic unlocking device: this is a TR 490R AI-B5 type turnstile.



## STANDARD TECHNICAL SPECIFICATIONS

- Power supply: 100 - 230V single phase 50/60 Hz.
- Control circuit: 24V DC.
- Electromagnet: duty cycle 100%.
- Nominal consumption: max. 60W.
- Shock absorber: hydraulic.
- Ambient operating temperature:  $-10^{\circ}\text{C}$  à  $+50^{\circ}\text{C}$ .
- Flow: 20 passages/minute.
- Net weight : 82 Kg.
- MCBF (*Mean Cycles Between Failures*), when respecting recommended maintenance: 5,000,000.
- This equipment is IP43.
- EC compliant.

## ANTI CORROSION TREATMENT

Internal mechanical parts are treated by zinc coating and passivation.

## OPTIONAL

- Kit for reader integration + orientation pictogram:
  - Orientation pictogram (1 LED strip).
  - Cut out in the front or rear end sections to integrate the customer's control equipments, according to dimensions and positioning to be communicated (*maximum width: 190 mm, maximum depth: 200 mm*).
- Heating for operation until  $-20^{\circ}\text{C}$ .
- Closing side panel.
- Empty housing.
- Tropicalisation kit (IP44).
- Additional power supply 120 V - 60 Hz.

## WORK TO BE PROVIDED BY THE CUSTOMER

- Power supply.
- Connecting electrical wiring to the control units.
- Possible masonry and fixing work (*see installation drawing*).

## STANDARD DIMENSIONS (MM)

