

# TRIPOD TURNSTILE WITH DROPPING ARM TYPE TR 491



**REMARK:**  
Turnstile shown includes directional display available as an option.

The long model TR 491 is a low-level tripod turnstile designed for reception areas where low-profile rapid access control is a requirement.

Designed to incorporate within its casework, flush-mounted access control devices such as: card readers, coin/token acceptors, ticketing systems, etc ...

The TR 491 turnstile includes an anti-panic device, which, in case of power failure, unlocks the arm at that time in the horizontal position, which instantaneously drops. The access corridor is then fully free of any obstruction, thus allowing uninterrupted safe passage. Its mechanical design is simple yet highly reliable. It can operate in 7 different modes to suit the user.

The TR 491 tripod turnstile is available in a variety of designs to suit individual architectural requirements.

## DESCRIPTION

1. Painted steel sheet frame, thickness 1,5mm.  
(3 standard colours available: RAL 5018 sea-green, RAL 3007 purplish red and RAL 5020 blue. Other RAL colours as an option)
2. Front and rear sections made of 1,5mm thick AISI 304 stainless steel sheet brush finished 220, locked from

*Specifications subject to change without prior notice*

inside. These sections can not be opened before upper cover removal.

3. Upper cover in stainless steel with safety lock, to permit access to the turnstile mechanism for ease of maintenance.
4. Front and rear sections allow to incorporate user control equipment such as card reader, coin acceptor, proximity reader, etc.
5. Each gate is designed to accommodate an illuminated approach display in one or both directions.
6. Tripod turnstile mechanism with solid steel arms and capstan on ball bearings, cataphoresis protected, black PVC hub cover. Electromagnetically operating locking bolts mounted on self lubricating bearings to lock arms. Hydraulic adjustable pressure movement shock absorbers which ensure silent smooth operation and progressive slowing down of the arm rotation even when robustly used. The tripod mechanism includes an anti-panic device which ensures automatic dropping of arm in case of power failure. When power supply is restored, dropped arm is returned manually to the horizontal position and automatically locked.
7. 230/24V control logic with transformer, fuses, test

*For characteristics and dimensions see overleaf*

**LONG MODEL TRIPOD  
TURNSTILE WITH DROPPING  
ARM TYPE TR 491  
TECHNICAL DATA N° 2-1119**

**Automatic Systems**



BELGIUM - FRANCE - ITALIA - ESPAÑA - UK - CANADA - USA

switches, dip switches for options and general connection block.

8. Stainless steel arms with locking device rendering it impossible to remove an arm without the appropriate tools.
9. Floor fixing by means of rawbolts.

**OPTIONS**

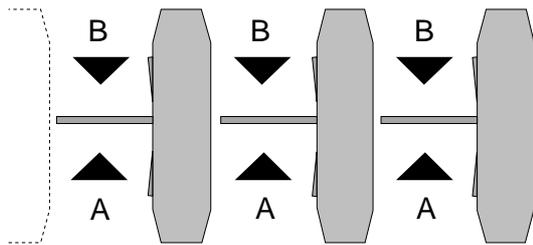
- Cutouts in front and/or rear fascia for the installation of control equipment from other manufacturers at whatever height and position you request.
- Card readers, token and/or coin acceptors of the standard Automatic Systems type.
- Electronic logic control to adapt turnstile according the required options, such as: passage of groups of users, cancellation of unused passage authorisation, management of pictograms, etc ...
- Electro-mechanical counter in one or both directions.
- Commands and controls can be transferred to a remote control desk.
- Information displays in one or two directions, illuminating a "X" in red and "arrow" in green (see detail below).
- Front and rear section + cover made of stainless steel AISI 316.
- Complete housing made of AISI 304 or 316 stainless steel sheet.

**OPERATION**

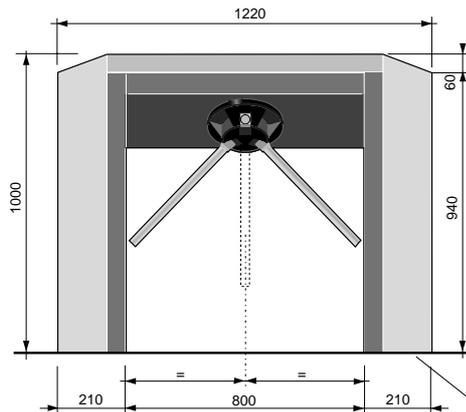
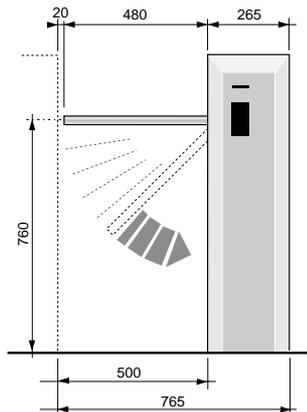
The TR 491 turnstile can operate in 7 different modes. The mode of operation is defined by specifying the code number below for directions A and B, which corresponds to the operation selected:

1. Access permanently free
2. Access permanently mechanically locked
4. Electrically controlled access. (same as TR 490)

**INSTALLATION OF TURNSTILES**



**OVERALL DIMENSIONS**



ARRIVEE DU CABLAGE ELECTRIQUE D'ALIMENTATION

**TECHNICAL DATA N° 2-1119**

All above operation modes include the anti-panic device providing free and unobstructed safe passage for users

**HOW TO SPECIFY A TURNSTILE?**

The specifications for a TR 491 turnstile and the mode of operation should be determined when the order is placed.

**Sample Specifications**

1. Turnstile free in direction A and electrically controlled in direction B.  
- **This is a TR 491 AI-B4 type turnstile.**
2. Mechanically locked in direction A and electrically controlled in direction B.  
- **This is a TR 491 A2-B4 type turnstile.**

**TECHNICAL SPECIFICATIONS**

- Power supply : 230V single phase or 24V AC
- Frequency : 50/60 Hz
- Control circuit : 24V DC
- Electromagnet : duty cycle 100%
- Consumption : 76W maximum (A5/B5)
- Shock absorber : hydraulic, adjustable
- Transformer : 100VA, 230/24V AC
- MCBF : 5.10<sup>6</sup> cycles
- Operating temperatures : -20° to + 60°C
- Humidity level : 90%
- Net weight : 82 Kg
- Overall dimensions : See below

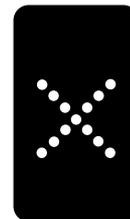
**WORK TO BE DONE BY CUSTOMER**

- 230V single phase power supply, 6A + earth or 24V AC
- Connecting electrical wiring
- Any necessary masonry and seals.  
(See installation drawing n° CH 432GB)

**APPROACH DISPLAY (OPTION)**



DISPLAY OFF  
(No sign visible)



DISPLAY ILLUMINATED  
(Red LED's)  
PASSAGE  
"OUT OF SERVICE"



DISPLAY ILLUMINATED  
(Green LED's)  
PASSAGE  
"IN SERVICE"