



Tripod Turnstiles

Tripod Turnstile for Public Transport Application

The Tripod Turnstile operates around traditional technology and is simple in operation yet suitable for integration into any modern-day fare collection system. This solution is diverse in design to fit on to any station concourse or compact enough to fit onboard buses and trams.

Models available include a 316 grade stainless steel version and an outdoor version IP54, 316 stainless steel. A Double version is also available.

The ATT (Alarmed Tripod Turnstile) offers the best security performance by means of a photocell and IR sensor alarming in case of unauthorised passage attempt. The system can be further enhanced by extra photocells with the ITC functionality (Improper Transit Control). The ATT-ITC version avoids passage simulation and improves the overall performance for the detection of unauthorised passage detecting if someone tries to jump over or crawl under the tripod's arms.

The status is shown on the led-way mode indicators, in entry and exit side. Passage in both directions is electronically controlled.

Available in Normally Closed (N/C) configuration to lock the mechanism until a valid authorisation signal is received, or available in Normally Open (N/O) configuration to lock the mechanism in the event of attempted unauthorised entry. The N/O configuration also allows reduced power consumption and increases the life of the mechanism and passage throughput speed.

In case of emergency, the hub freely rotates for an easier exit. The drop arm option can be chosen which automatically drops the horizontal arm to allow free passage. Led-way mode indicators are included as standard.



Tripod Turnstiles

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Technical Specifications

Materials

Casework:	304 Grade Stainless Steel
Casework Lid:	304 Grade Stainless Steel
Tripod Hub Hercules:	Cast Aluminium with painted grey finish
Tripod Arms:	38mm Dia. 480mm 304 Grade Satin polished stainless steel with welded end caps

Mechanism

The Hercules electromechanical platform is designed for mass transit applications. It provides higher efficiency in avoiding the passage of non-authorised users.

- Positive locking action for one passage at a time
- Self-centering mechanism to ensure complete rotation into the home position
- Hydraulic damper to ensure smooth operation
- Anti-backup device to prevent reverse rotation once the mechanism has moved 60° from home

Interface

The Hercules microprocessed control logic provides a wide range of optional functionalities, designed to suit stadia environment. User-friendly in design, parameter changes are easily undertaken. The mechanism, silent in rotation, is controlled via the microprocessor control logic LL2001 with the following standard features:

- One input for opening/locking the mechanism in each direction
- Two protected outputs for control of the opening/locking solenoids
- Four open collector NPN outputs for piloting way mode indicators
- Two open collector NPN outputs for counting passage in either direction
- Two OV output relays indicating availability of use or counting in either direction
- One OV output relays for alarm signalling
- Two open collector NPN outputs to count passage or to indicate availability of use in either direction or activate the optional drop arm feature
- One serial port - RS485
- Four inputs for sensors (ATT-ITT model only)

MODELS

- Single
- Double

OPTIONS

- Card reader integration
- Remote control
- Push button control
- Pictograms
- LCD counter
- Drop arm
- ATT-ITC

APPLICATIONS

- Station Concourses
- Ferry Terminals
- On buses
- On trams

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Power Failure / Fire Alarm

- Either one or both directions can be fail-safe (standard), i.e. rotates freely, or fail lock, i.e. locks in the home position Fire alarm - emergency input. Input facility available for free voltage contact to effect fail state. Mechanism fail state will be the same as power failure choice.
- Drop arm option: the horizontal arm drops to create a clear passage for evacuation

ATT-ITC Kits (optional)

- ATT (Alarmed Tripod Turnstile): two photocells and a sensitised top lid in order to recognise the attempts of passing through the barrier without authorisation.
- ITC (Improper Transit Control alarm system): ITC system is able to sense and give the alarm in case of simulated passage, when a user, once permitted to pass, rotates the tripod by its own hand, without passing. This system uses two photocells in addition to the other two of the ATT kit.

Power Supply / Power Rating

- 230 Vac 50HZ or 115 Vac 60Hz. Power Rating 50VA (stand by 5VA if Normally Open)

Operating Temperature

- 0 to +45° C (RH 95% not condensing)

MCBF / MTTR

- MCBF 10,000,000 cycles (if Normally Open)
- MTTR < 15 min

IP Rating

- IP 20

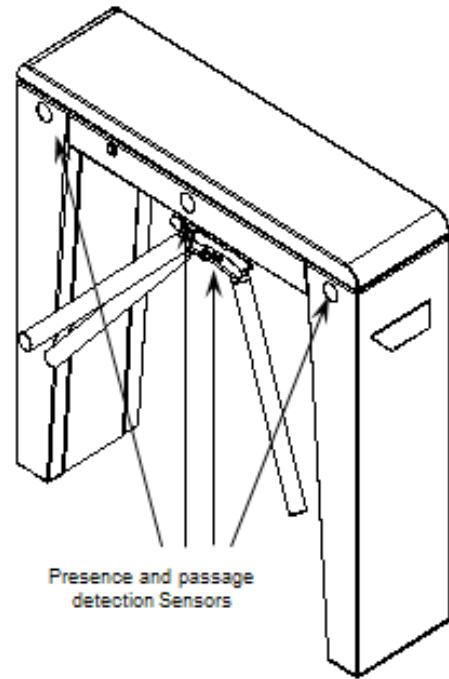
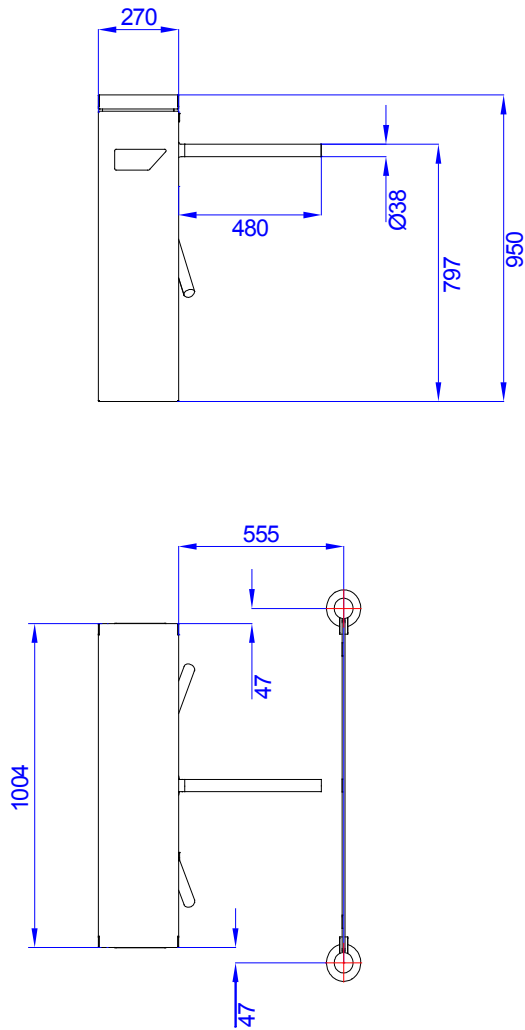
Flow Rates (approximate figures)

- Insertion Type Reader: 20 passages per minute
- Swipe Type Reader: 35 passages per minute
- Proximity Reader "Hands Free", 47 passages per minute

SITE PREPARATION

Product is delivered in a kit form and requires lifting equipment. Approx. weight: 50kg for Single Unit, 95kg for Double Unit. (For installation details, please refer to the installation layout drawings)

Tripod Turnstile with ATT - ITC



IMPORTANT

- Any horizontal pipe or conduit running below the Tripod Turnstile must be at least 140mm below FFL
- Metal conduit for cables should be raised at least 50mm from foundation
- It is the customer's responsibility to ensure the structural integrity and strength of the installation location
- The dimensions given in this Product Data Sheet are for information only. In order to prepare the installation site, please refer to your usual Gunnebo Customer Service contact

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For further information please contact:

Gunnebo Entrance Control Ltd
Bellbrook Business Park
Uckfield
East Sussex TN22 1QQ
United Kingdom

Tel +44 1 845 475 2429
E-mail metro.entrancecontrol@gunnebo.com
www.gunnebo.com



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