



Vehicle Access Control
Pedestrian Access Control
Safety & Security Equipment

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TRISTAR J18 TURNSTILE

Instructions (V1116)



Unpacking the turnstile

First remove the top cover of the wooden crate, then the side cover. The turnstile inside the crate can now be pulled out of the crate. Do not remove the plastic wrapping until the turnstile is ready to be used as this will prevent any damage to the stainless steel cabinet.

1. Technical Specifications

Throughput	25 users per minute
Channel width	550-600 mm
Duty cycle	100%
Safety devices	Arm drops in emergency
IP rating	IP 55 standard
Signal time out	Nil/ 6 secs/ 12 secs/ 18 secs
Power supply	220vac +- 10%
Motor voltage	24vdc
Power consumption	50W
Working environment	-30°C ~ +70°C
Relative humidity	95%

2. Standard features

- 2.1 The turnstile can be opened by two input signals (signals can be input by access controller, push button or other equipment).
- 2.2 Indicator lights: When the turnstile is ready to read the card, the light in the middle will be yellow. After reading card the upper blue light will come on. If someone tries to push the arm without permission, the red light will come on.
- 2.3 Single direction or bi direction is optional.
- 2.4 The arm will drop when power is off.
- 2.5 A memory input remembers how many cards are presented and does not activate the lock mode again until eight users have passed through the turnstile.
- 2.6 If no pedestrian passes through the turnstile after swiping their card the turnstile will return to lock mode after 6/12/18 seconds (time adjustable).

3. Optional features

- 3.1 Voice prompt and display screen available.
- 3.2 An external counter can be connected to count the number of people passing through the turnstile.
- 3.3 RS485 communication, PC command through serial port
- 3.4 Audible and / or visual alarm to indicate attempted forced entry.

4. Mechanical installation

- 4.1 The turnstile should be mounted on a smooth level surface; a concrete base is preferred especially for outdoor applications.
- 4.2 Two hold down bars are provided and these should be fixed with M12 x 100 mm expansion bolts.
- 4.3 The conduit entry can be inside the leg of the turnstile or through the cabinet wall.

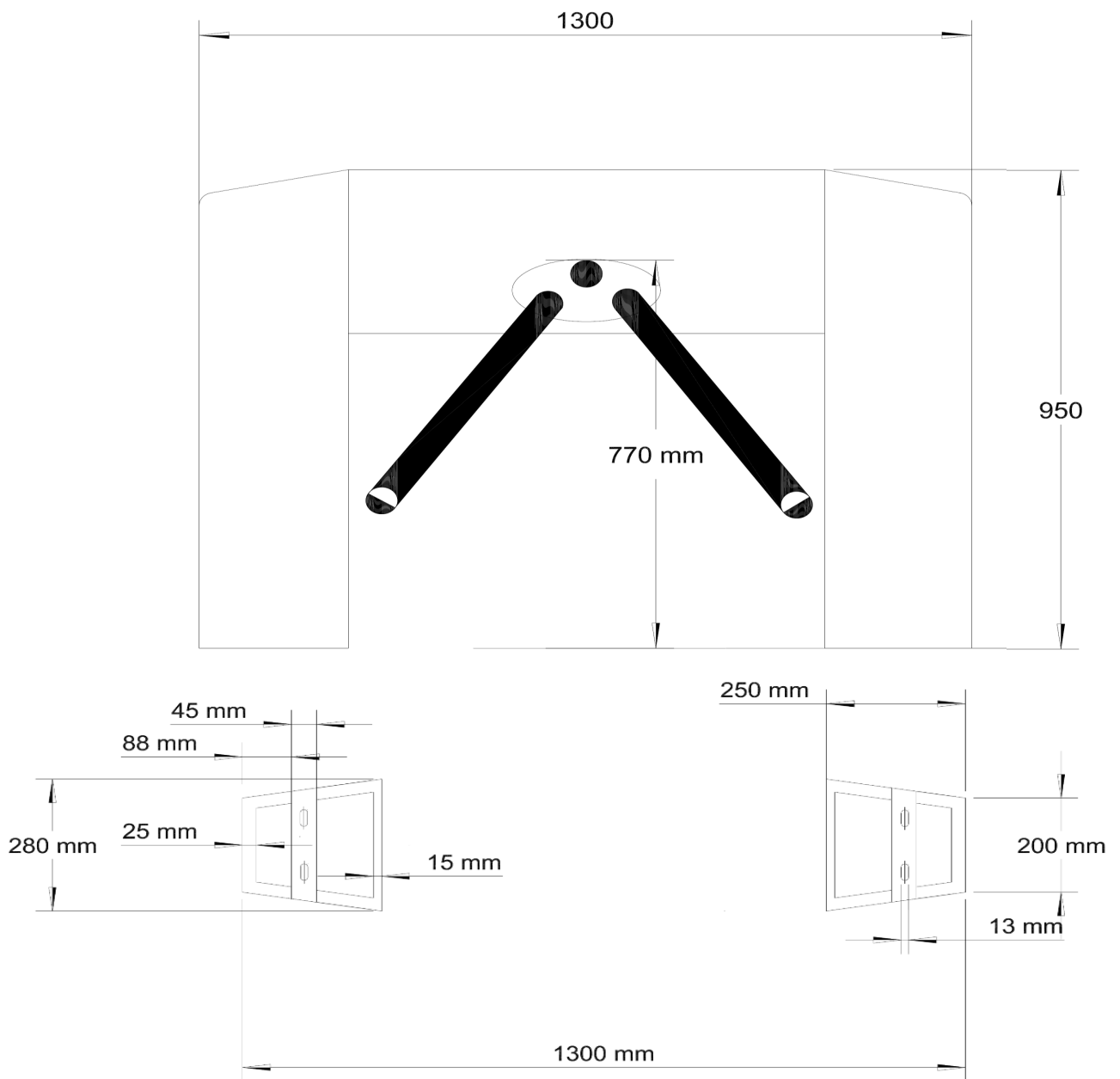
5. Electrical Installation

- 5.1 All electrical connections must be made by a qualified electrician in accordance with Australian wiring regulation AS/NZS 3000 2007.
- 5.2 The turnstile requires a 5 amp 240vac power supply fitted with an earth leakage unit and a suitable circuit breaker.

Trouble shooting

Problem	Action
No response when triggered	Close cover
Arm is not returning to start position	Check cam for wear if OK add lubricant
Arm is slow returning to start position	Adjust tension springs
Emergency arm drop off not working or arm won't lock in position when power on	Adjust the position of the release solenoid
Arm does not automatically lock in position	Adjust position of photocell on disc.

Turnstile J18 Dimensions



NOTE: The concrete pad should be 20Mpa (min) 150 mm thick, cured for 7 days on a suitably compacted foundation. Hold down anchors (4) to be 12mm dia x 100mm into the concrete.

Control panel in Entry Leg of Turnstile.

Output Connections

IO9 outputs (Optocoupler open collector output)

Terminals & Cable Colour	Function
ZLED + BROWN ZLED - RED	Entry Direction Indicator light output terminals
FLED + ORANGE FLED - YELLOW	Exit Direction Indicator light output
ZCNT+ GREEN ZCNT - BLUE	Entry Direction Counter Output
FCNT + PURPLE FCNT - GREY	Exit Direction Counter Output

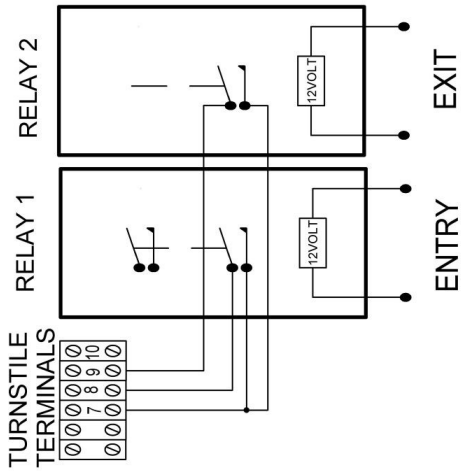
Dip Switch settings

DIP Switches	Function
Switch 2 ON	Turn on Counter function
Switch 3 ON	Freewheel on entry
Switch 4 ON	Freewheel on exit mode
Switch 5 ON	Turn on Alarm for attempted unauthorised access
Switch 6	Not Used

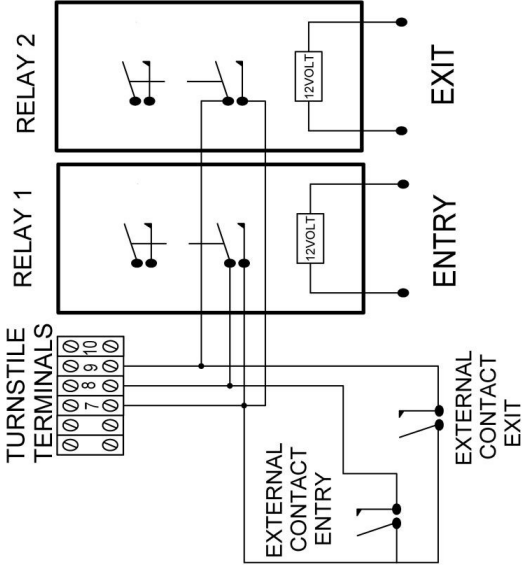
Switch 7 & 8 Time Out Delay

7 ON, 8 ON	= no time out
7 OFF, 8 ON	= 6 seconds
7 ON, 8 OFF	= 12 seconds
7 ON, 8 ON	= 18 seconds

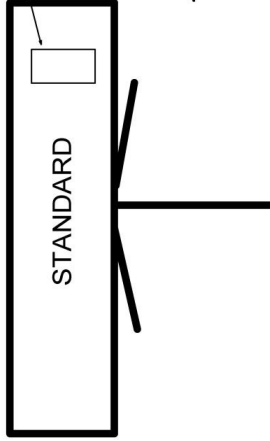
OPTION 1



OPTION 2

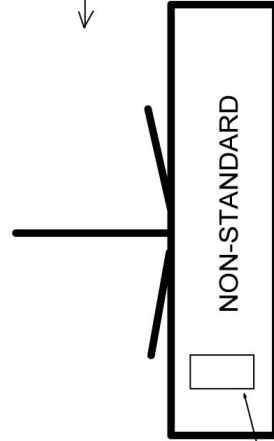


TURNSTILE CONTROLLER LOCATED
IN LEG BEHIND DOOR



EXIT →

← ENTRY



EXIT →

← ENTRY

TURNSTILE CONTROLLER LOCATED
IN LEG BEHIND DOOR

OPTION 1 (PREFERRED): EXTERNAL 12VOLT SWITCHED CONTROL CONNECTED TO RELAY AS SHOWN.

OPTION 2: POTENTIAL FREE EXTERNAL CONTACTS CONNECTED TO TERMINALS.



ROTECH AUTOMATION

TITLE		J18 ELECTRICAL CONNECTION	
WWW.ROTECH.COM.AU	DWG NO	TRISTAR J18 V2	REV
PH: 07 32051123	SCALE	NTS	SHEET A4