



Brochure

TURTL

The TL300 TUR is a turnstile logic plugin module developed to control turnstiles equipped with solenoids and limit switches. The TL300 TUR accepts potential-free contacts from card readers or push buttons and performs all required timing controls and locking logic.

The following settings are available on the turtl:

- Bidirectional turnstile with two entries. One entry for incoming and a separate entry for outgoing
- Automatic / manual mode. In this mode, the turnstile can be manually operated for maintenance purposes using the toggle switch on the front of the device.
- Solid state solenoid output. Separate outputs are used for incoming and outgoing. The solenoids are directly powered from the TL300 TUR.
- Selectable Fail-safe or Fail-secure operation. DIP switches can be used to reverse the outputs for desired operation. (note that in some cases a conversion kit is needed for Fail-secure operation)
- Time of release/blocking. This feature locks the solenoid after a set time if the limit switch is not activated. If a turnstile is activated to unlock and the person decides not to go through the turnstile within the desired time, then the solenoid is automatically relocked/unlocked.



Indicators

Power Indicator: This LED indicator lights up when power is present.

Input Indicator: This LED indicator lights up when the turnstile output for Input is enabled.

Exit Indicator: This LED indicator lights up when the turnstile output for Output is switched on.

Technical specifications

- Power Supply: 24VDC 1.5VA
- Input and Output Inputs: These inputs can be activated by a potential-free relay contact or an open collector NPN transistor output.
- Limit Switch Inputs: These inputs can be activated by a potential-free relay contact or an open collector NPN transistor output.
- Incoming and Outgoing Output Voltage for Solenoids: These outputs are MOSFET outputs with a power of 1.5 A / 24 VDC.
- EOT Output Relay: These outputs are a normally open relay output with a switching capacity of 0.5 A / 24 VDC. (rotation indication)
- Indicators: LED indicators show: Power, Entry, and Exit. The LEDs also indicate the status of the limit switches, which are useful for diagnostic purposes.
- Connector: 11-pin connector on the back of the device.
- Dimensions: 80 mm (height) X 40 mm (width) X 79 mm (depth excl. 11-pin connector).
- Operating Temperature: -40°C to +70°C
- Storage Temperature: -40°C to +85°C

Turtl DIP-switch Settings

Dip Switch	Function	ON	OFF
10	Not Used	Reset	Off
9	Not Used	-	Off
8	Timeout	10 Sec	20 Sec
7	Trigger memory	On	Off
6	Exit trigger latch	On	Off
5	Entry trigger latch	On	Off
4	Exit trigger input	N/C	N/O
3	Entry trigger input	N/C	N/O
2	Exit Solenoid	Fail Safe	Fail Secure
1	Entry Solenoid	Fail Safe	Fail Secure

