BROCHURE
TURNSTILE ROTALOK CONTROLLER ■
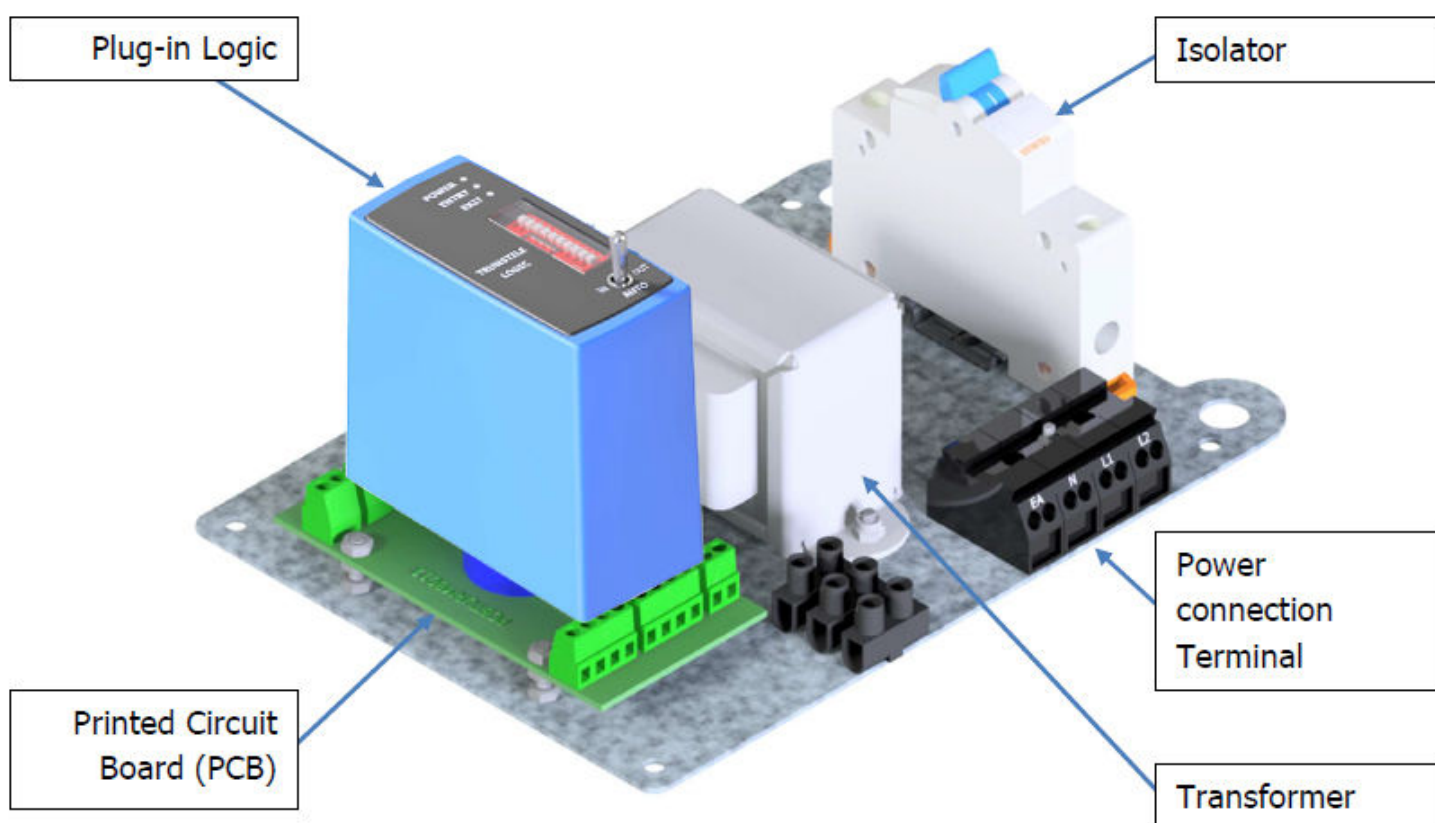
CONTROL PANEL & LOGIC

The control panel consists of a 220v AC power connection terminal, leading to an isolator. The isolator leads to an 18VAC transformer (sometimes 19V or battery backup) which distributes power to the printed circuit board and the plug-in logic. All the components are mounted onto a pre-galvanised chassis plate.

The plug-in logic controls the functions of the turnstile. (The logic may differ from the image shown. See Section 11.

Turnstile control panel components

The trigger inputs on the logic are activated by a potential free contact (dry contact).

The limit switch inputs on the logic are activated by a potential free contact (dry contact).

The solenoid outputs on the logic are solid state MOSFET rated at 1,5A / 24VDC.

The EOT (End of transaction) outputs on the logic are normally open relays rated at 0,5A / 24 VDC.
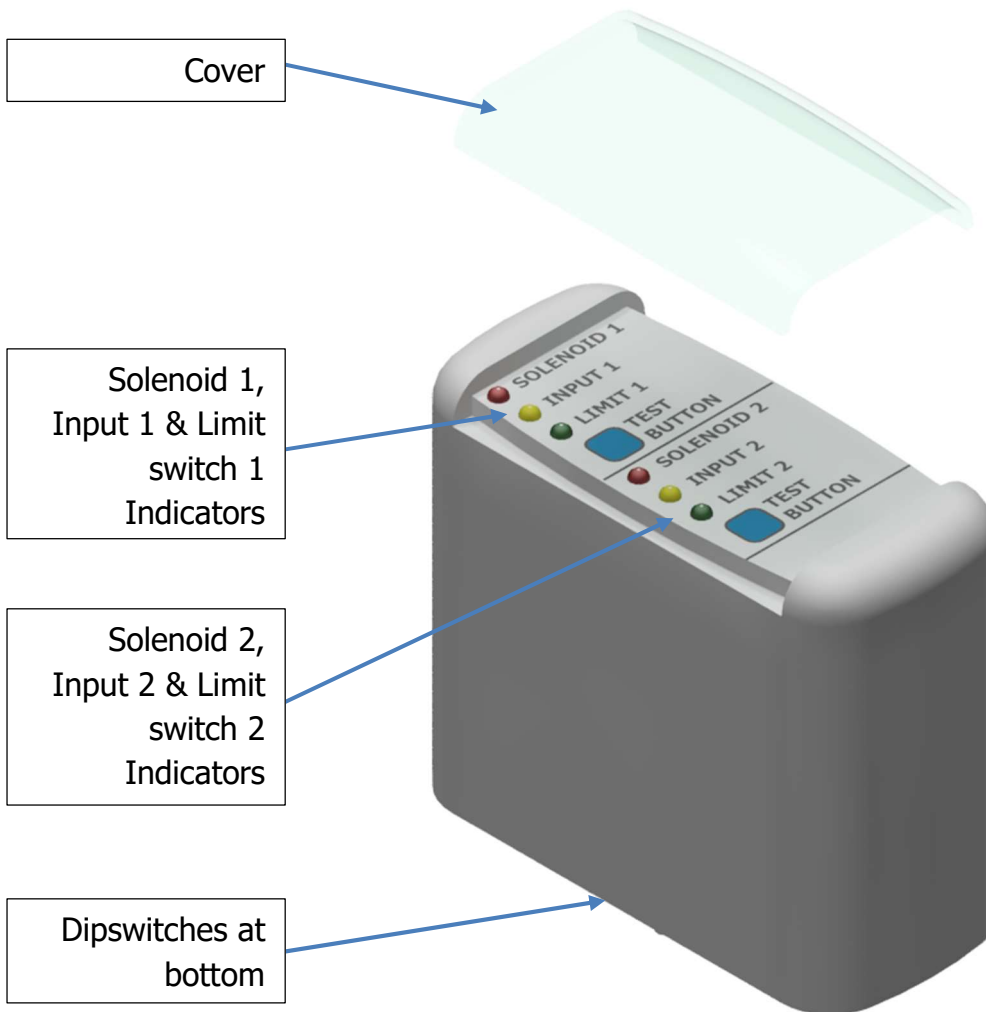
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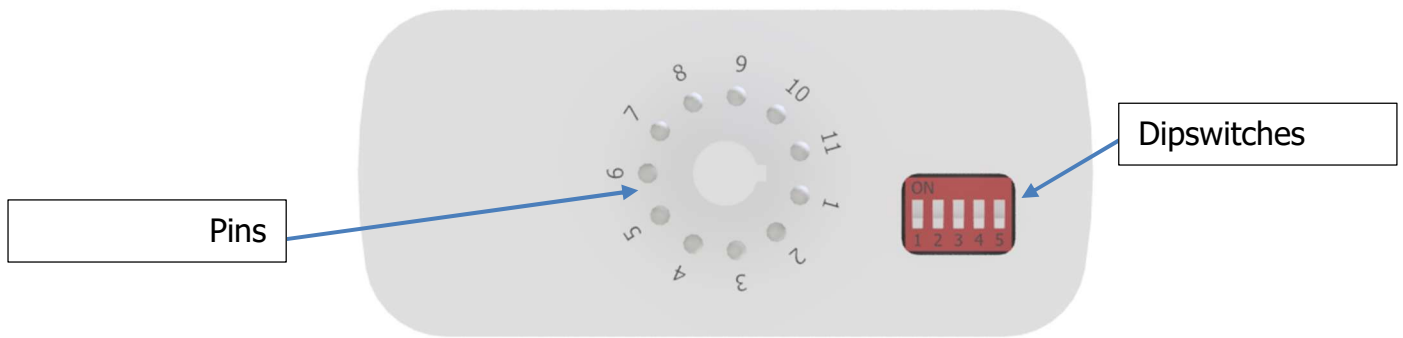TURNSTAR

TURNSTILE LOGIC TYPES

The control panel may be using one of two plug-in logics. Both logics have the same operation and features and are interchangeable. The grey logic (TURTL373) is mainly used locally in South-Africa and neighbouring countries. The blue logic (TL300TUR) is mainly used for exports to other countries.

The face of the logic incorporates two blue test buttons and six diagnostic LED indicators.

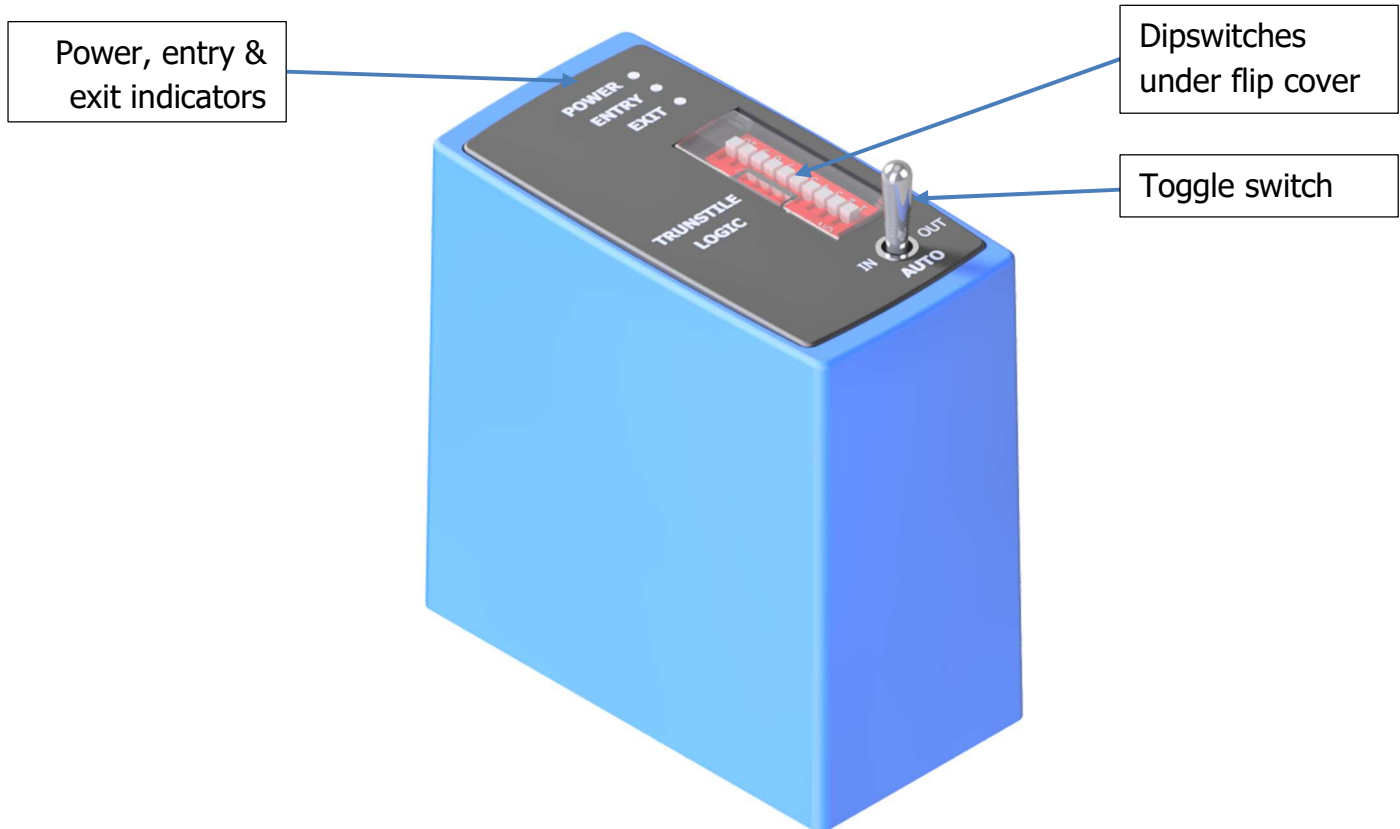To test the grey logic, press one of the test buttons briefly.

Cover

Solenoid 1,
Input 1 & Limit
switch 1
Indicators

Solenoid 2,
Input 2 & Limit
switch 2
Indicators

Dipswitches at
bottom

Grey Plug-in Logic (TURTL373)

Base of Grey Plug-in Logic (TURTL373)

TURTL373 Logic Dipswitch Settings

Switch No.	Function	ON	OFF
5	Sound	On	Off
4	Solenoid 2	Fail-Secure	Fail-Safe
3	Solenoid 1	Fail-Secure	Fail-Safe
2	Input 2 (Direction 2) (Fire Alarm)	Extended Trigger	Once-off Trigger
1	Input 1 (Direction 1) (Fire Alarm)	Extended Trigger	Once-off Trigger

The blue logic (TL300TUR) has a section showing feedback LED', dipswitches under a flip-open cover and a toggle switch for testing. The feedback section shows when the logic has power, when an entry trigger is received and when an exit trigger is received. The toggle switch must always be in the centre for automatic mode.

To test the grey logic, flip the toggle switch briefly to either 'in' or 'out' and return it to the centre.

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Power, entry & exit indicators

Dipswitches under flip cover

Toggle switch

Blue Plug-in Logic (TL300TUR)

TL300TUR Logic Dipswitch Settings

Switch No.	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	Enable	Off
5	Entry trigger latch	Enable	Off
4	Relay output mode	LED / Buzzer mode	Transaction Complete Mode
3	Entry/ Exit trigger input	N/C	N/O
2	Exit Solenoid	Fail Safe	Fail Secure
1	Entry Solenoid	Fail Safe	Fail Secure