Turnstile Logic

Model – TL100B-12

The TL100B-12 is a turnstile logic unit which has been developed to control turnstiles using magnetic solenoid locks with a single limit switch input. The TL100B-12 accepts inputs from card readers or push buttons and performs all of the required timing and logic.

Applications

Typical applications are the control of turnstiles in access control environments.

Features - Logic

Bi-directional turnstile with two inputs. One input for entry and a separate input for exit.

Automatic/Manual mode. This mode allows the turnstile to be manually operated for maintenance purposes using the toggle switch mounted on front of the unit. For normal use set to center position (AUTO).

Solenoid outputs. A separate relay is used for entry and exit.

Holding timeout. This feature locks the solenoid after a set time if the limit switch is not triggered. If a turnstile is triggered to unlock and the person decides not to pass through the turnstile within the timeout period, then the solenoid will automatically lock again.

Indicators

Power Indicator. This LED Indicator illuminates when power is present.

Entry Indicator. This LED Indicator is illuminated when the turnstile output is switched on for Entry

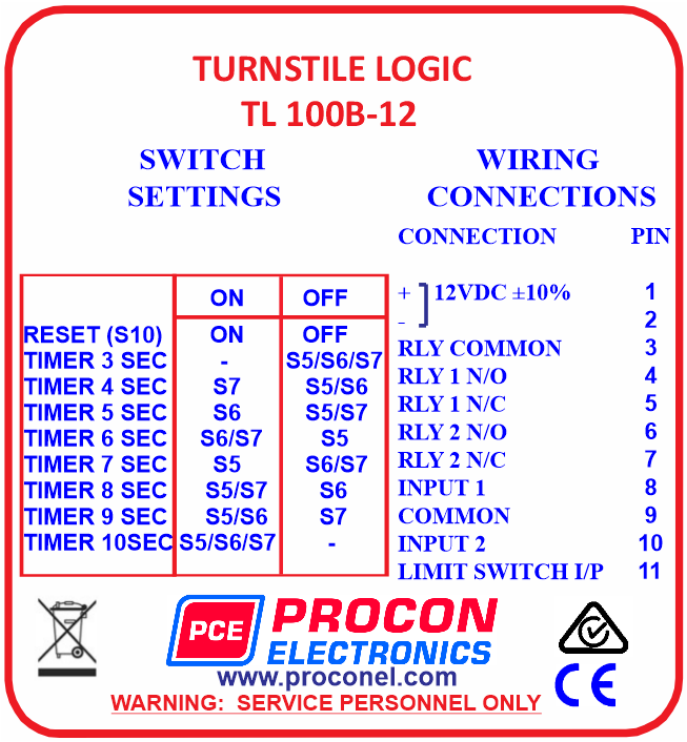
Exit Indicator. This LED Indicator is illuminated when the turnstile output is switched on for Exit

Technical Specifications

Power supply	12VDC ±10%
Entry and Exit Inputs	These inputs may be activated by a potential free relay contact or open collector NPN transistor output.
Limit Switch Input	This input may be activated by a potential free relay contact or open collector NPN transistor output. Shared Common with Inputs.
Entry and Exit solenoid Outputs.	Each solenoid has its own relay output rated at 16A/250VAC.
Indicators	LED indicators show: Power, Entry and Exit.
Connector	11 Pin Connector on rear of unit.
Dimensions	80mm (height) X 40mm (width) X 79mm (Depth excl. connector).
Operating Temperature	-40°C to +70°C
Storage Temperature	-40°C to +85°C

Switch Settings

TL100B-12 Switch Settings			
Switch No.	Function	ON	OFF
10	RESET (Normal Operation = SW10 OFF)	Reset	Off
9	Not Used	-	-
8	Not Used	-	-
7	Holding timeout – 4 seconds	SW7	SW5 & 6
6	Holding timeout – 5 seconds	SW6	SW5 & 7
5	Holding timeout – 7 seconds	SW5	SW6 & 7
4	Not Used	-	-
3	Not Used	-	-
2	Not Used	-	-
1	Not Used	-	-

Note: Holding Timeouts configured with Switches 5,6,7. Default holding time with all switches off is 3 seconds. See Side Label for full list of available timeouts.

Side Label – Wiring Connections