Ticket *Flex* Maximizer ™

WITH GAME OVER (TICKET ENABLE/DISABLE) INPUT
Model TFB1-GO

Installation & Operation Instructions

Flexibility in Ticket Payout and External Ticket OFF/ON control.

- ♦ Increase or Decrease the Ticket Payout
- ♦ Turn OFF tickets when they're not required
- ♦ Create Your Own Ticket Payout System
- ♦ Ticket Meter Output

- ♦ No Tickets / Ticket Jam Indicator
- ♦ Ticket Dispenser Test Mode
- ♦ Zero Tickets Mode
- ♦ Small size – fits everywhere

TURN THE TICKETS OFF WHEN THEY ARE NOT DESIRABLE - FOR SHOWROOMS, TRADE SHOWS, BIRTHDAY PARTIES, SPECIAL SESSIONS ETC.

The tickets can be disabled by an external switch or some other external control via the Ticket Enable/Disable Input without causing the game to go to a Ticket Error. The board will simulate ticket notches for the game while the tickets are turned OFF.
<u>Connecting a toggle switch:</u>

1. Connect the switch between pin 1 and 3 of the JST 12 way connector.
2. Jumper together pin 4 and 5 of the JST 12 way connector.

CREATE YOUR OWN TICKET PAYOUT SYSTEM. Many old games have been designed such a way that the ticket payout is not any more suitable for today's conditions or they work unreliably. This Ticketflex Maximizer can help you to replace the original ticket payout system.

Set the Maximizer to PULSE INPUT operation (Dip Sw 7 = OFF) and connect a score switch to trigger the ticket payout (e.g. the score switch in Basket Ball, Skee Ball etc.) between pin 3 and 10 of the JST12 connector. Jumper together pin 6 and 11 of the same connector.
You can utilize the "Game Over" signal (or the coin lockout) from the machine to disable the tickets in the Game Over mode. The pins 1 and 4 of the JST12 can be connected directly across DC coil or game over lamp operating from 5 - 30VDC max..

Operation Modes

MULTIPLY
Adjust the dip switch to multiply tickets by 1 to 15.

DIVIDE
Adjust dip switch to divide tickets by 1 to 15.

DISPENSER TEST
Switch the machine OFF, adjust dip switches 1 to 6 for Dispenser Test and switch the machine ON. 5 tickets will be dispensed and the PCB LED and the External Light will flash 2x at successful completion of the test. The LED and External Light will stay "ON" if there is an ERROR!

ZERO TICKETS MODE
This dip switch setting overrides the external ticket Enable/Disable control. The tickets will be TURNED OFF.

CLEARING ERROR
An error will occur when the machine runs out of tickets or the ticket dispenser jams or the ticket notch opto sensor is not functioning. The PCB LED and the Bonus Light (if connected) will stay ON. Clean the opto sensor of the ticket dispenser with a paint brush, remove jams, reload tickets. The unit will automatically reset and resume normal operation.

LED or External Light

On power up or after clearing ERROR the number of flashes indicate selected mode.

Number of flashes	MODE
1	DISPENSER TEST
2	DIVIDE
3	MULTIPLY

Dip Switch

Adjust dip switches while the machine is switched off!

ADJUST TICKETS

Multiply/ Divide by	Sw1	Sw2	Sw3	Sw4
1	OFF	ON	ON	ON
2	ON	OFF	ON	ON
3	OFF	OFF	ON	ON
4	ON	ON	OFF	ON
5	OFF	ON	OFF	ON
6	ON	OFF	OFF	ON
7	OFF	OFF	OFF	ON
8	ON	ON	ON	OFF
9	OFF	ON	ON	OFF
10	ON	OFF	ON	OFF
11	OFF	OFF	ON	OFF
12	ON	ON	OFF	OFF
13	OFF	ON	OFF	OFF
14	ON	OFF	OFF	OFF
15	OFF	OFF	OFF	OFF

DIP SWITCH	SW5
MUST STAY OFF	OFF

Divide/Multiply	Sw6
Divide	OFF
Multiply	ON

Zero Tickets					
Sw1	Sw2	Sw3	Sw4	Sw5	Sw6
ON	ON	ON	ON	OFF	ON

Dispenser Test					
Sw1	Sw2	Sw3	Sw4	Sw5	Sw6
ON	ON	ON	ON	OFF	OFF

Setting the Input and Output to suit the ticket dispenser.

The Ticketflex Maximizer is supplied preset for the Deltronic 1275, Entropy TD963CR or compatible Ticket dispenser.
Dip Sw 7 = ON, Dip Sw 8 = OFF, JUMPER = DOWN

The input and output can be set independently to suit other styles of Ticket Dispensers and various machines.

Dip Switch

Input	Sw7
Pulse Operation	OFF
Continuous Operation	ON

Output	Sw8
Pulse Operation	ON
Continuous Operation	OFF

Continuous Input Operation (Deltronic 1275 compatible)
The ticket drive input (pin 3 of the 8 Way JST connector) must be driven "high" to initiate ticket dispensing. The Ticketflex Maximizer will output ticket notch pulses for the host game (pin 1 of the 8 Way JST connector).

Pulse Input Operation (Deltronic DL 4 compatible)
In the Pulse Input Operation the ticket drive input must be pulsed "low" to initiate ticket dispensing. The notch output is not used.
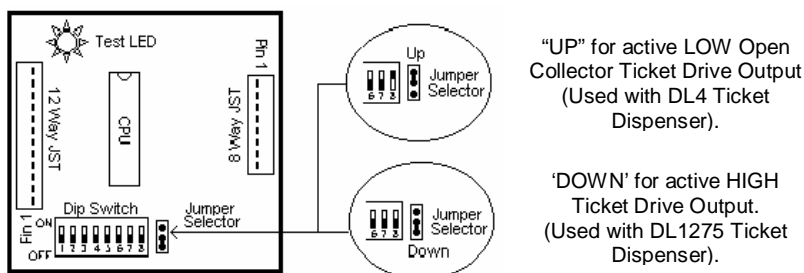
Continuous Output Operation (Deltronic 1275 compatible)
The ticket drive output (pin 2 of the 8 Way JST connector) is driven "high" to initiate ticket dispensing. The ticket notch feedback from the dispenser is required. The Jumper Selector must be "Down".

Pulse Output Operation (Deltronic DL 4 compatible)
The ticket drive output is pulsed "low" to initiate ticket dispensing (Jumper Selector must be "UP"). The ticket notch feed back is not utilized. The ticket dispenser will dispense one ticket for each pulse received.

Jumper Selector (Inverts Drive Output Voltage Level)

"UP" for active LOW Open Collector Ticket Drive Output (Used with DL4 Ticket Dispenser).

'DOWN' for active HIGH Ticket Drive Output. (Used with DL1275 Ticket Dispenser).

Important Notes

- *To minimize the likelihood of damage by electrostatic discharge it is recommended that the ticket dispenser body is connected to the protection earth.*

- *The rating of the 12V Globe for the external light is 10W Max.*

- *The standard harness supplied with the Ticketflex Maximizer provides all the required connections for the Multiplier or Divider mode. All other connections on the JST 12 Way Connector (e.g. Ticket Meter, External Light, Ticket Enable/Disable input) are optional and they do not need to be connected if not used.*

The Standard Harness Supplied with the Maximizer

(For connection to Deltronic 1275 or Entropy TD-963CR Ticket Dispenser).

4 WAY UTILUX (MALE) CONNECTOR
Connected to the ticket dispenser.

PIN	Description	Wire
1	Notch Input	Blue
2	GND	Black
3	Tick. Drive Output	White
4	+12V	Orange

4 WAY UTILUX (FEMALE) CONNECTOR
Connected to the machine.

PIN	Description	Wire
1	Notch Output	Blue
2	GND	Black
3	Game Drive Input	White
4	+12V	Orange

12 WAY JST CONNECTOR (PCB)

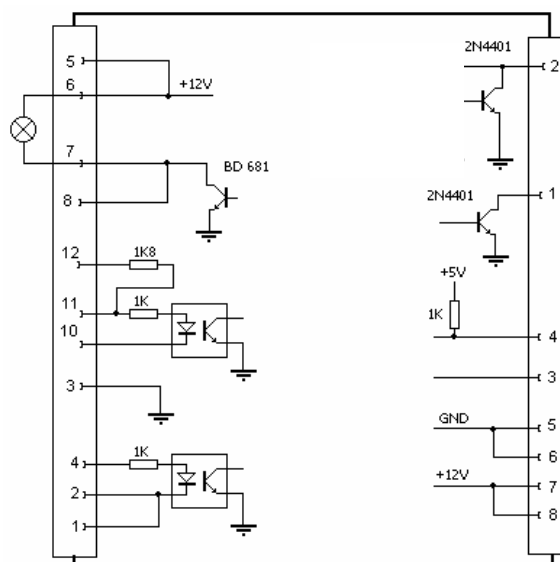| PIN	Description
1	- Ticket Enable/Disable Input
2	- Ticket Enable/Disable Input
3	GND (Out)
4	+ 5 to 30V Ticket En/Dis Input
5	+12 V (Out)
6	+12 V (Out)
7	Lamp Output
8	Lamp Output
9	Ticket Meter Output
10	- Opto Ticket Drive
11	+Opto Ticket Dr 5-30V
12	+Opto Ticket Dr 14-60V

Ticket Meter

Connect Ticket Meter between pin 5 and 9 of JST 12 connector.

External Light

Connect the External Light between pin 6 and 7 of JST 12 connector.

Ticketflex PCB Connector Pinout

8 WAY JST CONNECTOR (PCB)

PIN	Description
1	Notch Output
2	Tick. Drive Output
3	Tick. Drive Input
4	Tick. Notch Input
5	GND Out
6	GND In
7	+12V Out
8	+12V In (9 to14V)

For On-Line Help and application notes visit:
www.ticketflex.com

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