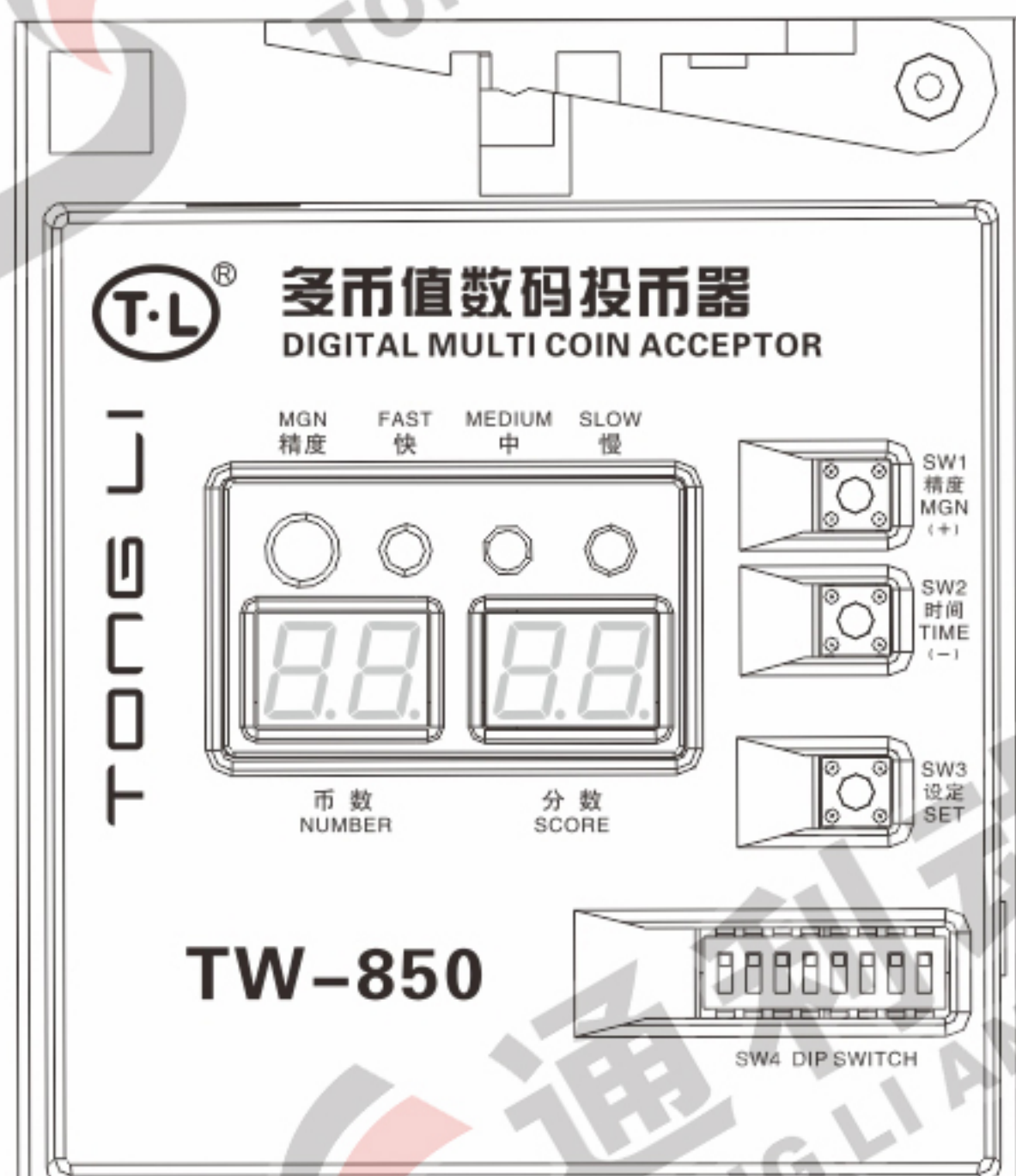


用户指南

Revision: 13-11-10



TW-850(直立式)

※此产品仅游戏类代币适用，不支持流通货币使用。

- 感谢您购买
- 在使用前，请务必阅读此说明书。

一、产品规格：

工作温度：-15℃～+50℃

硬币直径：Φ22mm～28mm

硬币厚度：1.7mm～2.3mm

工作电压：DC+12V ± 10%

静态工作电流：120mA ± 10%

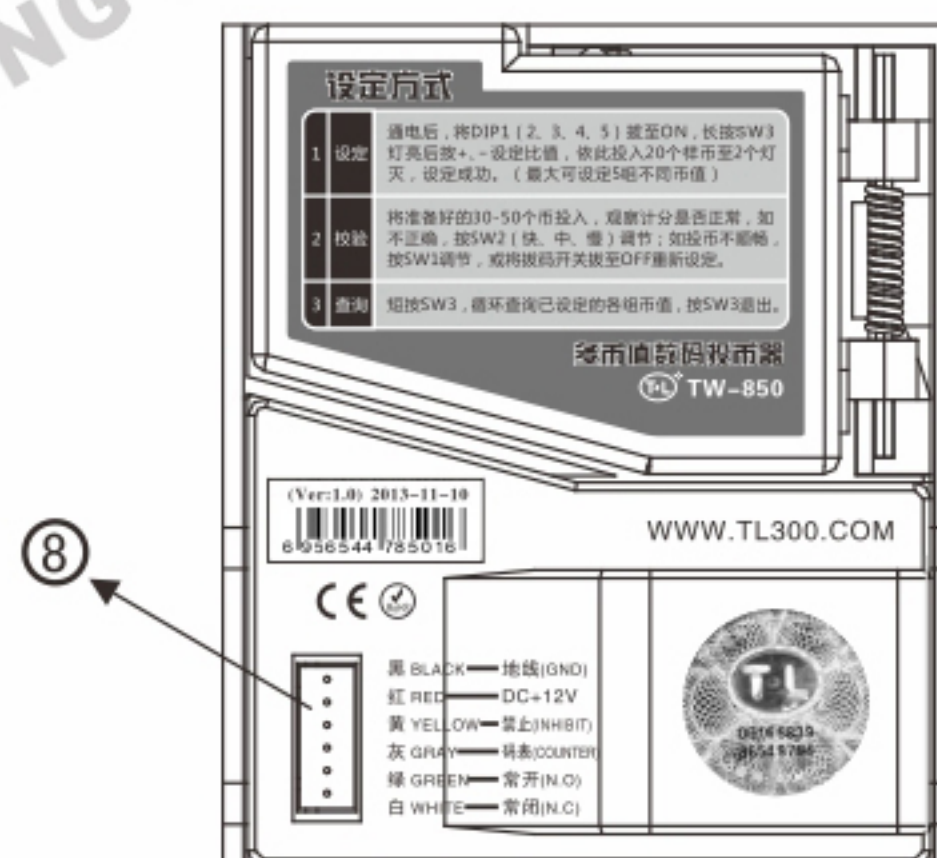
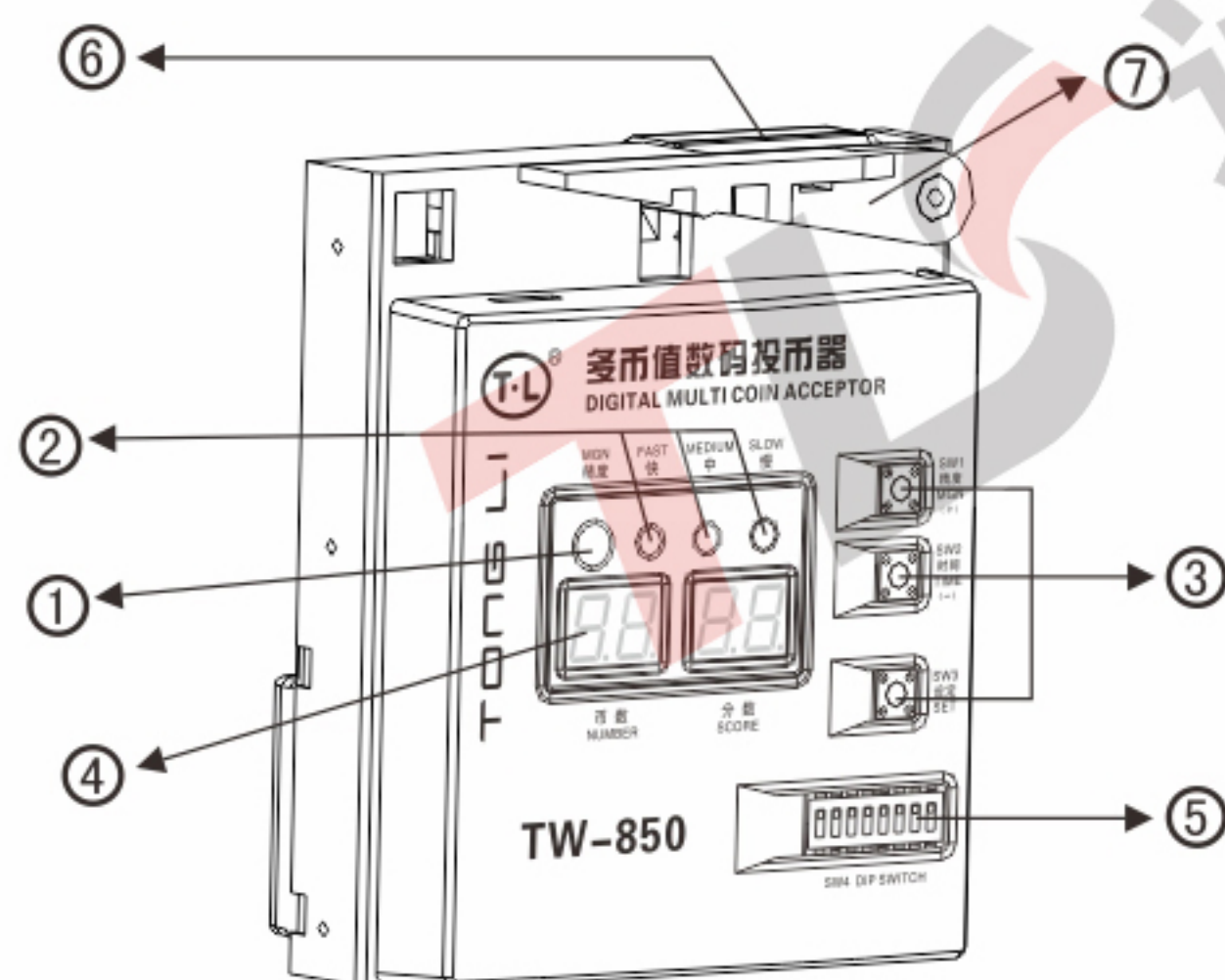
COIN讯号输出：0.C(集电极开路)形式

二、产品特点

1. 多币值功能，高达5组设定。
2. 数码化设定及显示（余额、币值）。
3. 开机自检功能，数显故障代码。
4. 记忆储存功能，一次记忆永不丢失。
5. 禁止功能，轻松控制，自由切换。
6. 双核处理晶片，超强识别，防假币，计分准。
7. 比值调节功能，1币多分或多币1分任意调节（比值高达99：1）。
8. 特设精度/COIN时间档（LED灯显示），投币顺畅，兼容性更强。

三、产品结构部件图：

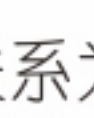
（图片仅供参考，请以实物为准）

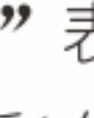
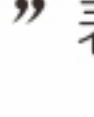


四、产品结构部件功能描述(如下表):

序号	部位名称	功能描述	出厂默认值
①	精度显示灯(LED)	三段显示: (红色/精准、蓝色/正常、绿色/放宽)	蓝色/ 正常
②	COIN时间显示灯(LED)	三段显示: 快20MS/中40MS/慢100MS	中档/40MS
③	多功能键	SW1: 精度/加数键 (待机状态下可调节精度模式三段“正常/精准/放宽”, 设定状态下可调节币数及分数)	调节精度
		SW2: COIN时间/减数键 (待机状态下可调节时间模式三段“快/中/慢”, 设定状态下可调节币数及分数)	调节时间
		SW3: 设定/查询键 (待机状态下长按〈大于2秒〉可进入设定币值模式, 短按〈小于2秒〉可循环查询币值及比值, 设定状态下可切换币数及分数的调节位置)	
④	四位数码显示	(见下表)	
⑤	DIP(八位)拨码开关	DIP1-5: 币值 (许可/权限) 拔至ON—允许币值设定并使用 拔至OFF—清除已设定币值数据并禁止使用	拔至OFF
		DIP6: 禁止信号极性 拔至ON—高电平禁止收币 拔至OFF—低电平禁止收币	拔至OFF
		DIP7: 禁止功能 拔至ON——打开禁止功能 (可以使用) 拔至OFF——关闭禁止功能 (不能使用)	拔至OFF
		DIP8: 未使用	拔至OFF
⑥	投币口	投币入口: 投币时请检测币口与相关币道组件的距离及关系, 防止卡币或投币不顺等问题	
⑦	退币压杆	卡币或堵币时可配合退币按钮将卡币等故障解除	
⑧	电源接口	提供电源及信号的端口	

五、数码管显示说明(如下表):

状态	币数	分数	显示说明	
待机状态显示:	   		表示余额,存于机内的币值余额(小于1)	
	   		表示无币值余额	
投币状态显示:	   		表示已投5枚币	
	   		表示投完币后显示的第5组币值	
设定状态显示:	   		表示设定比值为1币5分	
	   		闪烁,表示设定比值完成,等待投币取样设定	
	   		表示第1组样币已设定完成	
查询状态显示:	   		表示1币5分	
	   		表示5币1分	
故障状态显示:	故障代码	故障	处理方法	
	   	上光敏1故障	清除上光敏1发射和接收间的遮挡物	
	   	上光敏2故障	清除上光敏2发射和接收间的遮挡物	
	   	上光敏3故障	清除上光敏3发射和接收间的遮挡物	
	   	中光敏故障	清除中光敏发射和接收间的遮挡物	
	   	下光敏故障	清除下光敏发射和接收间的遮挡物	
	   	精度/+键故障	精度/+键失效, 返厂维修	
	   	时间/-键故障	时间/-键失效, 返厂维修	
	   	设定键故障	设定键失效, 返厂维修	
	   	控制电路内部故障	返厂维修	
	   	禁止工作故障	检查DIP6-7位设置是否出错	

注: 上述所提到的分值关系为1分=1个脉冲信号, 比如 “ ” 表示1币5分, 即为投1枚币后将会有5个脉冲信号输出给机台主板, “ ” 表示5币1分, 即为投满5枚币后将会有1个脉冲信号输出给机台主板。

六、使用说明(如下表):

安装	1. 配合机台规格, 选择N. 0 (常开) /N. C (常闭) 作为有效的输出信号线。
	2. 如过币不顺畅, 请调节精度按键SW1置正常或放宽模式。
	3. 配合主机板需要, 切换DOIN时间按键SW2 (快档/20MS、中档/40MS、慢档/100MS) LED灯显示, 快档及中档适用于一般机台, 慢档适用于大型娱乐机台。
	4. 若机台支持禁止收币功能, 请将机台禁止线与投币器禁止线连接, 将DIP7禁止开关拨置ON并配合机台信号极性切换高低电平 (DIP6) 。
设定	1. 通电后, 先将DIP (1-5) 对应权限开关拨置ON位置, 确保最少有一位权限开关已打开, 否则进入设定介面会显示 “88 88” 并自动退出返回待机状态。
	2. 待机状态下长按SW3键 (大于2秒), 进入设定状态 “88 88” 右边两位闪烁且三个LED红灯全亮。
	3. 设定币值, 短按SW3键 (小于2秒) 可在币数和分数之间来回切换位置, 再按SW1键和SW2键调节比值关系 (1币多分或多币1分), 币值最高可设定5组, 比值最高可设定为99: 1, 设定完后3秒自动进入取样等待状态 (数码显示为 “88 88” 且闪烁) 。
	4. 取20枚样币 (每间隔0. 5秒或1秒投入1枚样币, 当数码显示 “88 88” 时系统自动进入完成状态即显示 “88 88” (8表示第5组币值) 1秒后自动退出至待机状态, 设定完成。
	5. 设定状态下如果想退出设定, 可长按SW3键 (大于2秒) 便会自动退出返回待机状态, 该次设定参数将不作保留。
	注: 重新设定币值时对应的币值余数将自动清零。
校验	如计分不准确请按SW2键调节脉冲时间, 若投币不顺, 请按SW1键调节精度或将DIP1-5拨置OFF清除后重新设定。
查询	短按SW3键 (小于2秒) 可循环查询币值及比值。

七、常见故障处理(如下表):

序号	常见故障	处理方法		
1	不计分	1. 信号线(常开、常闭)是否和电脑板相配 2. 投币器的信号线是否连接, 接线法是否正确 3. 投币器电源插座是否接触不良 4. 投币器COIN信号以集电极开路形式输出, 与之相连主板或分机板是否接上拉电阻		
2	吃币	1. 调整COIN信号时间档置中档或慢档 2. 出币口过币是否通畅		
3	不顺畅	1. 调整精度置正常或放宽 2. 电源低于10.8V最低工作电压 3. 取样币重新设定		
4	不过币	1. 投币器电源插座是否没有连接, 是否接触不良 2. 投币器接线是否正确 3. 投币器币道中是否有异物 4. 反光片是否脱落		
5	过假币	1. 将调整精度到精准档 2. 取样币重新设定		
6	故障代码和修复	故障代码	故障	处理方法
		E-01	上光敏1故障	清除上光敏1发射和接收间的遮挡物
		E-02	上光敏2故障	清除上光敏2发射和接收间的遮挡物
		E-03	上光敏3故障	清除上光敏3发射和接收间的遮挡物
		E-04	中光敏故障	清除中光敏发射和接收间的遮挡物
		E-05	下光敏故障	清除下光敏发射和接收间的遮挡物
		E-06	精度/+键故障	精度/+键失效, 返厂维修
		E-07	时间/-键故障	时间/-键失效, 返厂维修
		E-08	设定键故障	设定键失效, 返厂维修
		E-09	控制电路内部故障	返厂维修
		E-10	禁止工作故障	检查DIP6-7位设置是否出错
7	不能设定币种	1. 检查DIP1~5位设置, 对应权限开关拨置ON位置, 确保最少有一位权限开关已打开, 否则进入设定介面会显示“88 88”并自动退出返回待机状态。 2. 若五组币值均已保存, 请把其中要清除的币值开关拨至OFF位置2秒后再拨至ON, 就可清除该设置, 然后再重新设置该币值。		

八、接线说明:

- 黑线 —— 地线 GND
 - 红线 —— DC+12V
 - 黄线 —— 禁止线
- 灰线 —— 码表
 - 绿线 —— 常开 (N.O)
 - 白线 —— 常闭 (N.C)

※ 注: 请将本说明书放在机台内, 方便使用者更清楚了解使用方法。



官方网址: www.tonglianimation.com

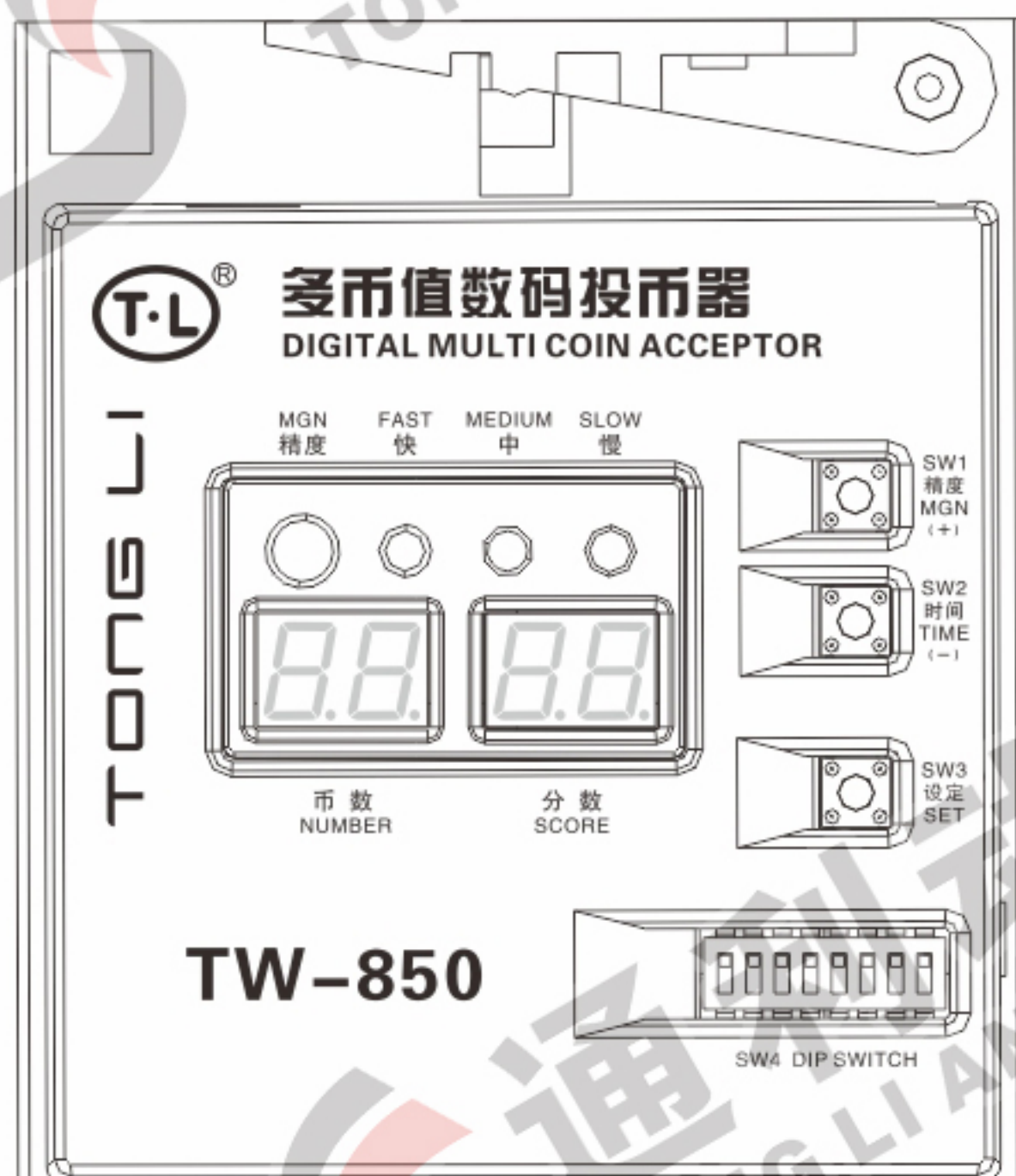


制造商: 广州通利动漫科技有限公司

地址: 广州市番禺区东环街迎星东路143号星力动漫产业园H19号

User Guide

Revision: 13-11-10



TW-850(vertical type)

※THIS PRODUCT IS ONLY APPLICABLE TO GAME TOKENS AND DOES NOT SUPPORT THE USE OF CIRCULATING CURRENCIES.

- Thanks for your purchasing
- Please read carefully before using this Manual

1. Product specification:

Temperature: $-15^{\circ}\text{C} \sim +50^{\circ}\text{C}$

Input: $\text{DC}+12\text{V} \pm 10\%$

Coin Diameter: 22mm~28mm

Current: $120\text{mA} \pm 10\%$

Coin Thickness: 1.7mm~2.3mm

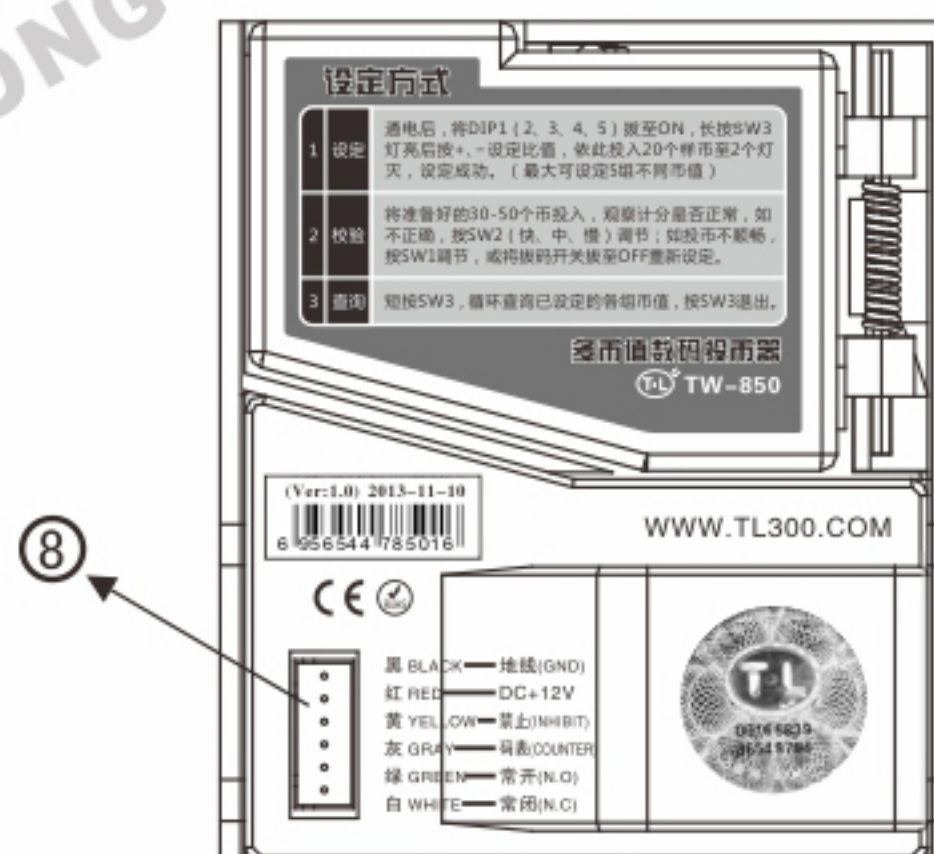
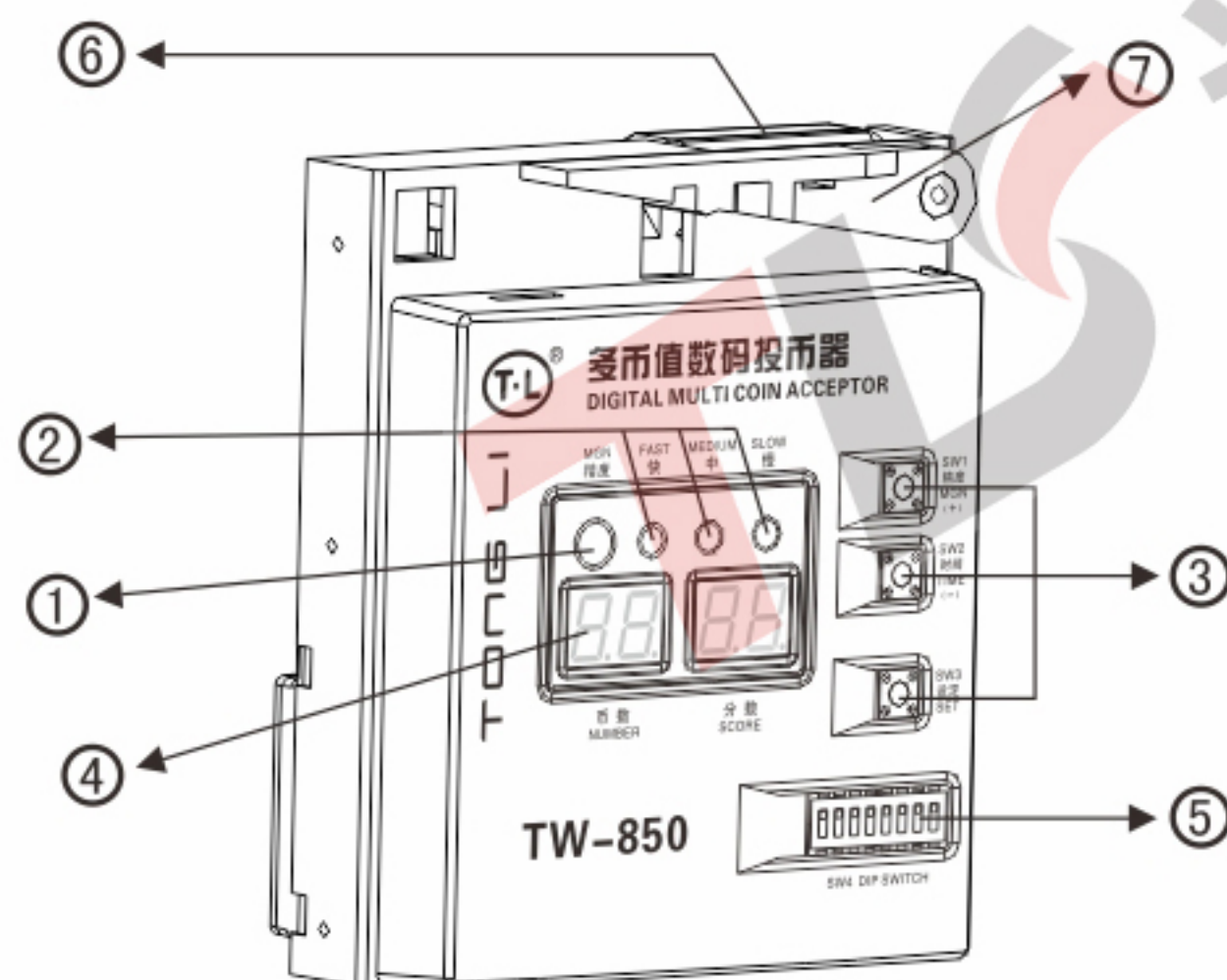
Coin Signal Output: O.C(open collector)type

2. Product characteristics:

1. Multi coin acceptor, up to 5 groups settings.
2. Digital setting and display (Balance and coin value).
3. Power on self test function and digital display fault codes.
4. Memory storage function, a memory is never lost.
5. Inhibit function, easy control and free switch.
6. Dual-core processing chip, strong recognition, anti-counterfeit coin, correct scoring.
7. Ratio adjustment function, can adjust between one coin multi points or multi coins one point (Ratio up to 99:1).
8. Special precision/coin time switch (LED display), inserting coins more smoothly, high compatibility.

3. Product components view:

(Remark: Photos are for reference only; detail information is accord with final product)



4. Product components functional description:

No.	Component name	Function description	Factory default
①	MGN indicator(LED)	3 section display: (Red/MGN, Blue/NOM, Green/MAX)	Blue/NOM
②	COIN time indicator(LED)	3 section display: (Fast/20ms, Medium/40ms, Slow/100ms)	Medium/40ms
③	Multi-function key	Sw1: MGN/Add key (Adjust “NOM, MGN, MAX” when ready mode, and adjust coins and scores amount when setting mode).	Adjust precision
		SW2: COIN time/Minus key (Adjust “Fast, Medium, Slow” when ready mode; Adjust coins and scores amount when setting mode).	Adjust time
		SW3: Setting/Query key (Long press (over 2 seconds) to enter into coin value setting mode, and short press (less 2 seconds) to query coin value and ratio; Switch the adjustment position of coins and scores amount when setting mode).	
④	4-bit digital display	As follow diagram.	
⑤	DIP(8-bit) switch	DIP 1-5: Coin value (Permit / Authority) ON—Permit coin value setting and use OFF—Clear coin value setting data and prohibit using	OFF
		DIP 6: Prohibit signal polarity ON—High level and prohibit to accept coins OFF—Low level and prohibit to accept coins	OFF
		DIP 7: Inhibit function ON—Open the inhibit function (can use) OFF—Close the inhibit function (can not use)	OFF
		DIP 8: Have not used.	OFF
⑥	Inserting slot	Coin entry: Check the distance between slot and related groove components, in order to avoid the problem of jamming coins and inserting coins not smoothly.	
⑦	Refund compression bar	Relieve jammed coins to use refund button.	
⑧	Power interface	Power supply and signal interface.	

5. Digital tube display introduction (as following diagram):

Status	Coin number	Scores	Display introduction	
Ready mode display			Show balance, the coin value balance which is kept in the machine (less 1).	
			Show no coin value balance.	
Inserting coins status display			Show 5pcs coins are inserted.	
			Show the 5th coin value after inserting coins.	
Setting status display			Show that the setting ratio is 1 coin 5 points.	
			Flicker, show that setting ratio is finished, and wait to coin sample setting.	
			Show the 1st sample coin to be finished.	
Query status display			Show 1 coin 5 points.	
			Show 5 coins 1 point.	
Fault status display	Fault code	Fault	Handling method	
		Up sensor 1 fault	Clearing debris between launching and receiving port of up sensor 1.	
		Up sensor 2 fault	Clearing debris between launching and receiving port of up sensor 2.	
		Up sensor 3 fault	Clearing debris between launching and receiving port of up sensor 3.	
		Medium sensor fault	Clearing debris between launching and receiving port of medium sensor.	
		Down sensor fault	Clearing debris between launching and receiving port of down sensor.	
		MGN/+key fault	MGN/+key is failure, should return to the factory repair.	
		Time/-key fault	Time/-key is failure, should return to the factory repair.	
		Set key fault	Set key is failure, should return to the factory repair.	
		Internal control circuit fault	Return to the factory repair.	
		Inhibit fault	Check whether DIP6-7 are in the correct position.	

Remark: Above mentioned ratio is 1 point=1 pulse signal, for example: “” shows 1 coin 5 points, it means that there are 5pcs pulse signals to output to game board after inserting 1 coin. “” shows 5 coins 1 point, it means that there is one pulse signal to output to game board after inserting 5pcs coins.

6. Using instruction(as following diagram):

Install	1. Choose N.O or N.C as effective output signal line according to the machine specification.
	2. If insert coins not smoothly, please adjust SW1 to NOM or MAX mode.
	3. Changing COIN time switch SW2 LED lamp display (Fast/20ms, Medium/40ms, Slow/100ms) according to the main board. Fast and Medium normally suit for common game machine, Slow suit for amusement machine.
	4. If game machine has inhibit function, please connect inhibit line of machine with inhibit line of coin acceptor. DIP 7 dial to ON position and change high level (DIP 6) to fit signal polarity.
Set	1. DIP(1-5) dial to ON position after power on, and make sure that there is at least 1-bit authority switch to be ON, otherwise it shows “88 88” after entering into set interface and will return to ready mode automatically.
	2. Long press SW3 (over 2 seconds) when ready mode to enter into set status “88 88” right two will flicker and all 3pcs LED red lamp light.
	3. Set coin value, short press SW3 (less 2 seconds) to change position between coins and scores, then press SW1 and SW2 to adjust ratio (1 coin multi points or multi coins 1 point), the highest coin value is 5 groups, the highest ratio is 99:1, it can enter into sample wait status after 3 seconds by finishing set (Digital display “88 88” and flicker).
	4. Insert 20pcs sample coins one by one every 0.5 second or 1 second, when digital show “88 88” system will enter into finish status automatically, and show “88 88” (8 means the 5th coin value) 1 second later, system will exit and return to ready mode and setting is finished.
	5. If you want to exit when setting mode, long press SW3 (over 2 seconds) to exit and return to ready mode automatically, this setting parameter will not be kept.
	Remark: When re-set coin value, the balance of related coin value will clear zero automatically.
Verify	Press SW2 to adjust pulse time when score is not correct, and if inserting is not smooth, press Sw1 to adjust precision or DIP 1-5 dial to OFF and re-set after clearing.
Query	Short press SW3 (less 2 seconds) to cyclic query coin value and ratio.

7. Common fault handling(as following diagram):

No.	Normal fault	Method		
1	Insert coin but no scores	1. Check whether signal line (N.O, N.C) match with game board or not. 2. Make sure that signal line of coin acceptor is in a right connection. 3. Check whether power socket of coin acceptor is in a good contact. 4. Check whether coin signal output is O.C (open collector) type, and related main board and extension board connect to pull-resistor.		
2	Retain coins	1. Adjust the COIN signal time switch to be medium or slow. 2. Check whether coins can pass smoothly or not.		
3	Coins can not be inserted smoothly	1. Adjust the precision switch to be NOM or MAX. 2. Voltage is less 10.8V. 3. Change sample coin to try it again.		
4	Can not pass coins	1. Check whether power socket of coin acceptor is in a good contact. 2. Make sure that signal line of coin acceptor is in a right connection. 3. Check whether there are debris or jamming coins. 4. Check whether the reflector fall off or not.		
5	Pass counterfeit coins	1. Adjust precision to be MGN 2. Change sample coin to try it again		
6	fault code and repair	Fault code	Fault	Handling method
		E-01	Up sensor 1 fault	Clearing debris between launching and receiving port of up sensor 1.
		E-02	Up sensor 2 fault	Clearing debris between launching and receiving port of up sensor 2.
		E-03	Up sensor 3 fault	Clearing debris between launching and receiving port of up sensor 3.
		E-04	Medium sensor fault	Clearing debris between launching and receiving port of medium sensor.
		E-05	Down sensor fault	Clearing debris between launching and receiving port of down sensor.
		E-06	MGN/+key fault	MGN/+key is failure, should return to the factory repair.
		E-07	Time/-key fault	Time/-key is failure, should return to the factory repair.
		E-08	Set key fault	Set key is failure, should return to the factory repair.
		E-09	Internal control circuit fault	Return to the factory repair.
		E-10	Inhibit fault	Check whether DIP6-7 are in the correct position.
7	Can not set coins	1, DIP(1-5) dial to ON position, and make sure that there is at least 1-bit authority switch to be ON, otherwise it shows "88 88" after entering into set interface and will return to ready mode automatically. 2, If 5 groups coin value are kept, please dial to OFF position which coin value should be cleared, after 2 seconds then dial to ON, it can clear this setting and re-set coin value.		

8. Wiring:

- Black--GND
- Grey--Counter
- Red--DC+12V
- Green--N.O
- Yellow--Inhibit
- White--N.C

✘ **Remark:** In order to be more convenient for user to know how to use, please put this manual into game machine.



Official Website: www.tonglianimation.com



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