Coin Validator
NRI G13

Rev. 1.0

August 1999

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Coin Validators

Casino Operations regularly have routine maintenance for the Gaming Machines, but in some circumstances it is required that (particularly for the Coin Validator), further checks and observations are adhered to, in order to maximize the acceptance rate of these validators.

Routine testing should be carried out as often as possible with the validators, in order to recognize tampering and poor performance.

Observing Slot Management statistics and monitoring customer action will also help identify validators with bad acceptance. Low Coin-In reported in these statistics often identifies this. Audible sounds of coins/tokens rejected to the Coin Bowl Assembly can also attract the attention of Casino Personel to the machine with the bad acceptance.

Set out below are recommendations and procedures for calibrating and maintaining NRI G13 coin validators.
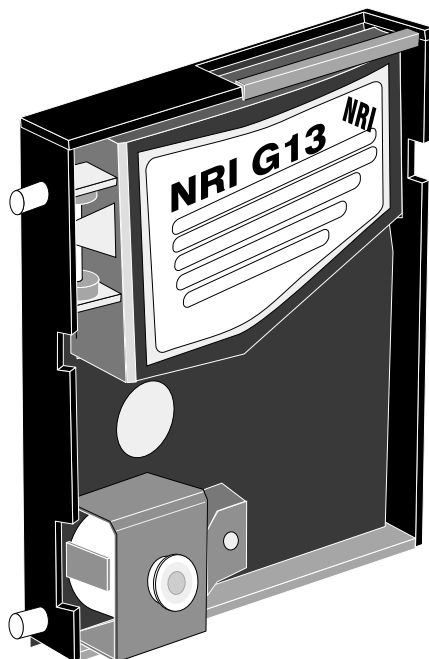
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Dimensions
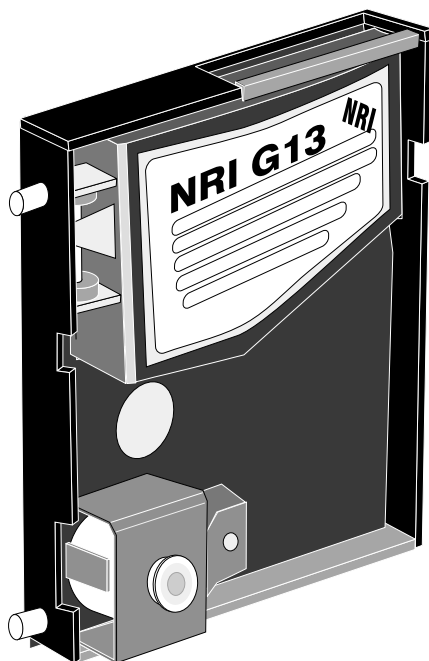Height: 102.0 mm
Width: 89.0 mm
Depth: 52.0 mm

Coinage
The NRI G13 is capable of accepting coins/tokens within the following ranges:
Diameter: 15.0 to 31.5 mm
Thickness: 1.5 to 2.6 mm

Power Consumption
Voltage: 12V
Normal: 30mA
Max: 250mA

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Channel Adjustment

The G13 has 12 channels which can be programmed for all types of coins/tokens. Apart from the normal width, a narrow width can be adjusted for many coins/tokens. A super narrow width can be set, for coins/tokens that are likely to be forged, to ensure the biggest possible protection against misuse. Several channels can have the same coin value. The settings are given on the label:
Upper row-channels 1- 6
Lower row-channels 7-12

Channel blocking

On the rear side of the coin comparitator are 2 blocks of 6 DIL-switches (Dual-In-Line). These can be used to block single coin channels. To do this, the corresponding switch must be changed into the ON position. (If there is more than one channel assigned for the coin, all the appropriate switches must be changed.)
The 12 channels are assigned 6 output lines. If an inserted coin is recognized to be externally blocked, the corresponding output line is set to ground potential. Line 6 can be used to block the whole acceptance.

String recognition

To protect against string manipulation the G13 is equipped with a directional accept sensor. This means a signal is only given when a coin passes the optic-device from the coin insert. Additional design measures make it more difficult to pull coins back out. By G13 devices without a front plate, the sensor is located on the left side. By the G13 devices with a front plate, on the right side. (The G13-6000 series can also be equipped with a spring, for additional support for this safety device.)

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Teach mode

Teach mode enables the programming of coins/tokens in channel 10 and 11. This is possible in all versions of the G13 validator:

1. The validator remains in the machine.
2. On the DIL-switches, switch Nr. 12 must be in the ON position.
3. Depending on which channel is to be programmed the appropriate switch (10 or 11) must be changed to the ON position.
4. Insert coins/tokens.
5. After 10 coins/tokens have entered the validator a signal tone will sound, the measured values are now registered.
6. Turn switch 12 to the OFF position.
7. Turn switch (10 or 11) into the OFF position.
8. A signal tone will sound, which will indicate the programming is completed, successfully.

In cases where the acceptance rate is too low, for a programmed coin, the following procedure applies:

1. DIL-switch 12 to the ON position. (Teach mode is now activated)
2. Turn switch 10 or 11 into the ON position.
3. Insert new coin/token at least 10 times.
4. A signal tone sounds and the coin values are registered.
5. Turn switch 10 **and** 11 into the ON position.
6. Wider acceptance bands are now calculated.
7. Turn switch 12 to the OFF position
8. Turn switches 10 and 11 into the OFF position
9. The coin/token has now been programmed and the teach mode completed, channels 10 and 11 are enabled.

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