

## Calibration Using the Teach Mode Function (Option /T)

The coin selector can be delivered with an optional teach mode function (on site programming). The teach mode can be set up for a maximum of 14 channels at the factory. No PC is required for the teach mode, since the necessary software is built into the coin selector.

The teach mode is activated by setting the number 8 switch on the bottom row of DIP switches to "ON". The number 7 switch of the same DIP switch block is used to set the acceptance tolerance to "broad" or "narrow". The "ON" setting selects a narrow tolerance.

To start the calibration it is necessary to select a channel to be calibrated by setting one channel switch to "ON". The left DIP switch in the bottom row corresponds to channel 1 and right DIP switch in the upper row corresponds to channel 16.

The coin channel must be chosen after activation of the teach mode switch 8. The advantage is that it is not necessary to set all DIP switches to "OFF" first before programming a particular channel.

Channels 7 and 8 cannot be calibrated with the teach mode because the DIP switches 7 and 8 are used to set the acceptance tolerance and to activate teach mode respectively.



Only 15 blocking switches are available on those coin selectors that have been factory set with the teach mode. The coin selector will not accept any coins while it is in the teach mode.

Figure 5 below shows the example of setting up channel 15 for calibration with narrow acceptance tolerances.

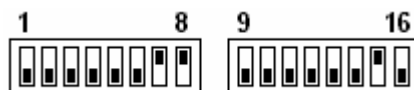


Figure 1 Example DIP switch settings for teaching channel 15 with narrow tolerances.

The following procedure is for coin selectors with activated teach mode (factory setting):

1. The coin selector is configured, so that only **coin channel 15** and **16** (i.e. coin output lines 5 and 6) may be used for teaching.
2. The teach mode is activated via **blocking switch no. 8** (ON). Additionally please insert a coin into the coin selector incorporating battery operation (EMP8x0.xx /B). The coin selector remains switched on until the teach mode will be switched off again.
3. If **blocking switch no. 7** is activated additionally (ON), teaching is effected using **narrow tolerances**
4. The **blocking switches 15** and **16** are used to teach **coin channels 15** and **16**. The switches have to be set to the OFF position when activating the teach mode, otherwise the coin selector software blocks the two channels for the teach mode.

5. If any coin blocking switches are activated (ON) for channels which are not released for the teach mode, the coin selector magnet will operate briefly three times to indicate an incorrect operation.
6. To program the coin selector with the teach mode a **minimum of 10 coins or tokens** must be inserted. When the requisite number of coins have been inserted and the teaching procedure has been completed (by setting the blocking switch no. 15 or 16 back to the OFF position), the coin selector solenoid will operate briefly and once only.
7. Should the coin selector establish an **overlapping** of the newly programmed coin with a coin / token already programmed, then the coin selector solenoid will operate briefly twice and no new data will be stored in the memory of the selector.
8. **Insufficient coins** being inserted will result in the solenoid not operating and no new data will be stored into the memory of the selector.
9. For security reasons during teaching, the coin selector will rate all measured values of added coins as overlapping unless at least one parameter differs from any existing coin parameter tolerance. Should the programming not be successful when using „broad“ tolerances (blocking switch no. 7 OFF), teaching could be still possible using the narrow tolerances.
10. The teach mode is deactivated via **blocking switch no. 8** (OFF). When the teach mode is deactivated, all blocking switches may then be used for individual coin blocking with the exception of blocking switch no. 8.