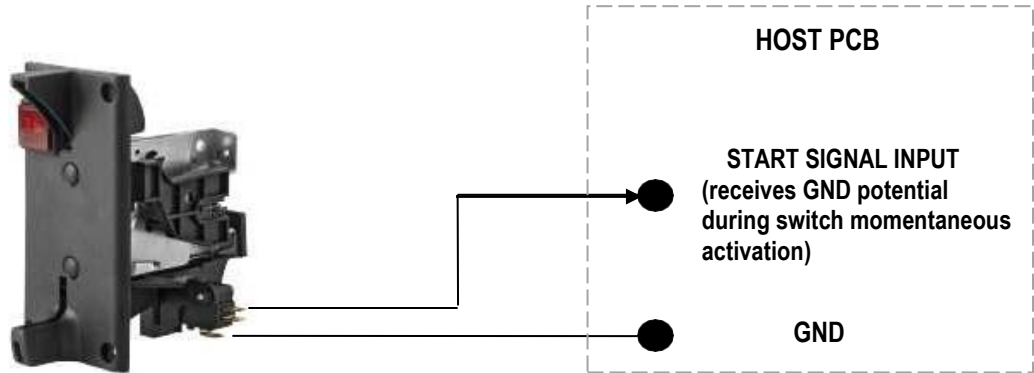# AA-0403-0n00 interface pcb for replacing mechanical coin acceptors by electronic coinmechs

MECHANICAL COIN MECHANISM: the mechanical coin acceptor is connected to the machine p.c.b. via the two wires that provide closure of the circuit when the accepted coin activates the micro-switch:


ELECTRONIC COIN VALIDATOR: when accepting the coin, the electronic coinmech transmits a TTL signal from pin 5 (output OUT 7) to the host (machine board), which in turn transforms and processes it starting from an OC (Open Collector) interface with pull-up resistor. Usually the host working with a mechanical coin mechanism does not have this TTL interface, therefore an adaptor converting the TTL pulse to a switch-like signal must be interposed between the coinmech and the host. The pcb AA-0403-0600 is such adaptor, and must be connected as indicated below:
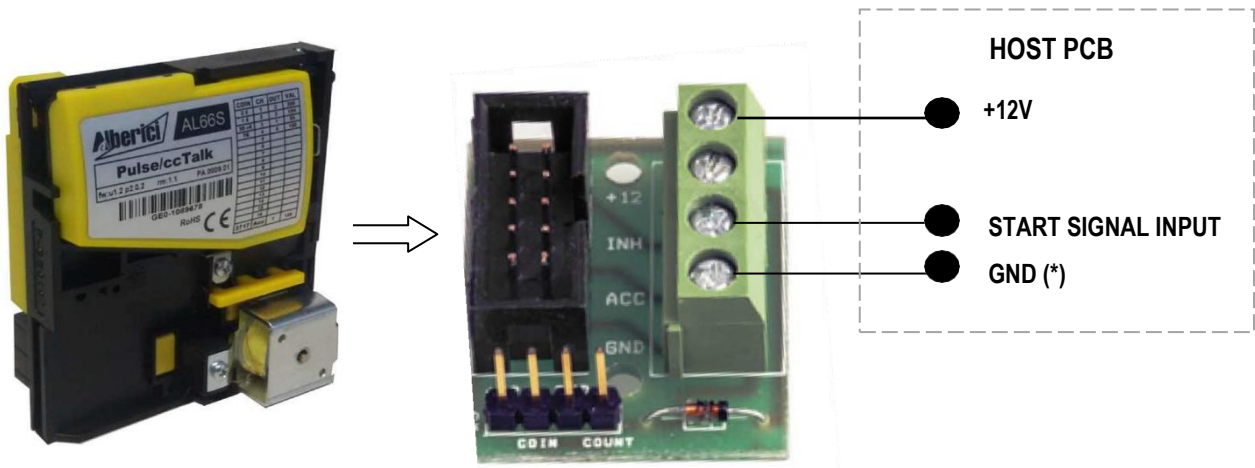

(*) be careful that GND must really be the earth of the circuit: in fact, if the GND pole is electrically "dirty", it could pass forward harmful interferences to the operation of the electronic coin validator.

WARNING: THE ABOVE IS VALID IN THE GENERAL CASE WHERE THE SIGNAL LOGIC IS NEGATIVE (START SIGNAL = GND).

If, on the contrary, the closing of a clean contact instead of GND is used as Start signal, it is then necessary to instal a relay, whose coil would be activated by the voltage made available by the coin acceptance between the "+" pin (+12V or +24V) and the ACCUM. Pin (= 0 V during activation). Else, a more professional solution is to make use any of the Servo Control P.C.Boards: SH-40AN (12Vdc) or SH-40CN (24Vdc or 24Vca) or SH-40DN (230Vac).
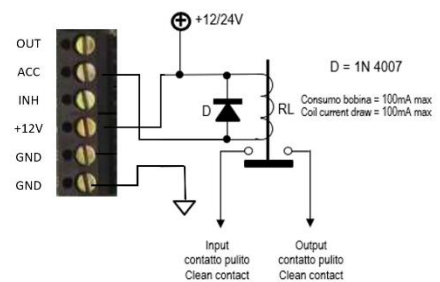
Size
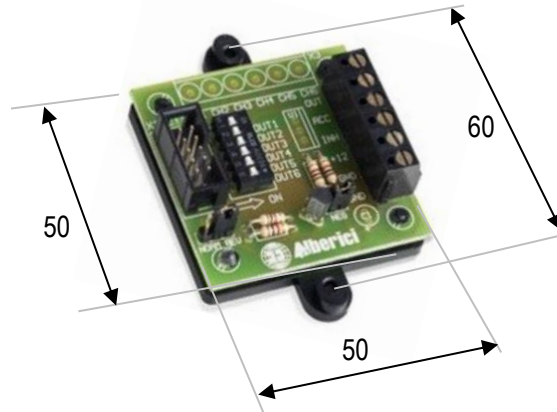
Height with plugs: 22 mm

All measures are in mm
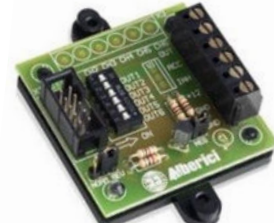
50

60

50

50

Models

AA-0403-0300
OUT7 credit pulse from ACC, or (when relevant dip-switch to ON) from X2 OUT pin.

AA-0403-0800
OUT7 credit pulse from ACC, or (when relevant dip-switch to ON) from X2 OUT pin.
Acceptance pulse from X3 CH clamp.

AA-0403-0400
OUT7 credit pulse from ACC, or (when relevant dip-switch to ON) from X2 OUT pin. Regarding J1 and J2 functions (disable acceptance) see below table.

These interface pcbs allow to use coin acceptors programmed to provide Totalizer (Accumulator) pulses from any of the 6 outputs normally intended for parallel signals, instead of through the classic OUT7.
Where necessary, the AA-0403-0800 also allows to monitor on terminal block X3 the coin denomination accepted.
They also allow to disable the coin accepto operation by simply shifting one of the two J1 / J2 jumpers.

J1 / J2 JUMPERS	COIN ACCEPTOR	Credit pulse from OUT 7	Credit pulse from OUT N (ex. 5)	Credit pulse from OUT N (es. 5)
			dip-switch OUT N (5) = OFF	dip-switch OUT N (5) = ON
☐ oppure ■	ACCEPTS	ACC = 11 V → 0,02 V	OUT = 0,02 V	OUT = ca. 11 V → 0,02 V
■ oppure ■	REJECTS	ACC = approx. 11 V	OUT = approx. 11 V	OUT = approx. 11 V
☐ e ■	ACCEPTS	ACC = 11 V → 0,02 V		OUT = ca. 11 V → 0,02V