

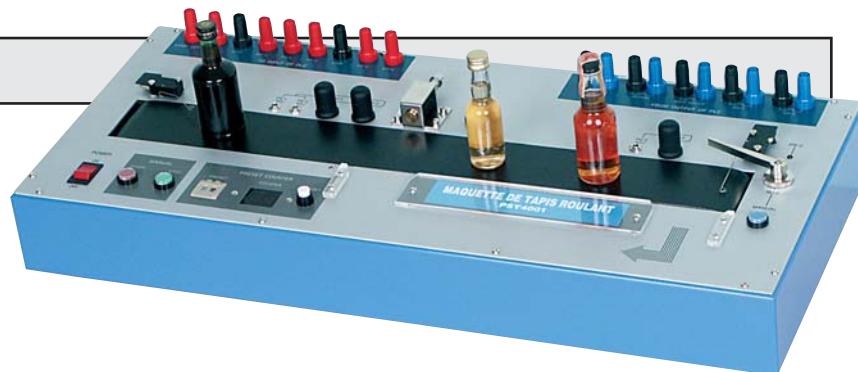


## Conveyor belt model

The PSY4001 unit has 12 inputs/outputs, mimicing an industrial conveyor system with a range of sensors. All of the input/output switches are of the latching type. This unit can be driven by a PLC, micro-computer or sequential logic system.

Connection to the unit is by Ø4mm leads (outputs : situated high on the left, inputs : situated high on the right). The control buttons are located next to the activation switches allowing manual control without any automation. Breaking capacity of the 7 outputs: 30Vcc 1A. Inputs controlled by closing a single contact. All of the power supplies necessary for operating the unit are integrated into the unit.

Supply 220VAC.



ref. PSY4001

### INPUTS ON THE UNIT

- 2 solenoids to eject non-conforming pieces, at the middle and end of the belt
- 1 incremental counter input from 0 to 99 with a digital readout
- 1 control switch for the motor
- 1 belt acceleration control switch from 12mm/s to 18mm/s

### OUTPUTS FROM THE UNIT

- 1 «reset to zero» which closes a contact when the operator presses the reset button.
- 2 limit switches at either end of the belt, with LEDs to indicate their state
- 3 photo detector barriers :
  - Barrier No.1 - for detecting objects which are too high
  - Barrier No.2 - for detecting objects of medium height
  - Barrier No.3 - for detecting an accumulation of pieces at the end of the conveyor
- 1 programmable counter which switches when the preselected value is reached.
- This setting is made by 2 incremented dials on the front of the unit.

### EQUIPMENT AND CHARACTERISTICS

- Conveyor belt: Depth 60mm Usable length: 570mm
- Dimensions: 670 x 296 x 80mm Weight 14kg

### 12 PRACTICAL WORKS

- Ejection of objects • Sorting of objects of different heights • Changing the speed of the belt
- Simple counting • Counter stopping of the belt • Selective counting of objects depending on their height
- Selective counting with stopping controlled by the preset value on the counter

### ACCESSORIES SUPPLIED

2 reflective parts of high object detection.  
A description of the 7 workbooks.

## Motorized gates

The two automatic operations enable users to study automatic or semi-automatic opening and closing of an electric gate in complete safety. They use standard market parts that are commonly used for these automatic operations. The consoles are connected together using 4mm and 2mm leads, such as the different control parts (push-buttons, etc.), sensors (photoelectric cells, etc.) and other actuators (gear motor, etc.).

### COMPONENTS INVOLVED IN THE AUTOMATIC OPERATIONS (common to both gates)

- 1 frame on wheels with brake.
- 1 or 2 gear motors, depending on the selected automatic operation model.
- 2 pairs of photoelectric cells, to secure the opening and closing of the gate.
- 1 unit fitted with an electronic card controls the operation of all of the different settings (such as closure time-delay, activating the remote control, etc.).
- 1 gate opening and closing remote control
- 1 gate operation indicator light.
- 3 consoles, consisting of 4mm safety terminals for the 220V and 2mm for the extra-low voltage, containing the wiring for:
  - the key-operated "gate opening and closing" push-button
  - the gear motor(s), the light, the 24V power supply for the cells and the mains power supply
  - for the 4 photoelectric cells
- 1 fault simulator unit enables the user to create a malfunction in the photoelectric cells.
- 1 set of keys for unlocking the door mechanically.

### FEATURES (common to both gates)

- Emergency stop circuit breaker
- 220V AC mains power supply
- Power supply to photoelectric cells: 24V AC. (console internal power supply).
- Fault simulator unit with 4 circuit breakers, causing a fault on each cell.
- Life-time pre-lubrication using grease.
- Dimension of the unit: 1400 x 800 x 1700mm
- Sold with all connection diagrams and all the various settings to be entered for the smooth operation of the gates.



### TUTORIALS ARE SUPPLIED WITH AUTOMATIC FUNCTIONS

- Wiring of all of the components
- Adjusting the various operating settings
- Measuring the properties of gear motors and comparing these values with the ones for the rating plate.
- Looking for one or more faults

### FEATURES OF THE PO-PB2 (CASEMENT)

- Current consumed: 0.8A
- Max. Power: 200W.
- Speed reducing ratio: 1/296
- Weight: 130KG

### FEATURES OF THE PO-PC1 (SLIDING)

- Current consumed: 1.5A
- Max. Power: 290W.
- Speed reducing ratio: 1/30
- Weight: 120KG