

# Operator Instructions Testing and Buffering station

Festo group 2 12

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## Starting up

- 1: Ensure the stations are empty and all switches are in their default position. Start the controller and wait for the Festo station to initialize. When all LEDs are turned off, the initialization has been executed correctly.
- 2: To start the controller, press the start button of the testing station.
- 3: You can now switch between manual mode and automatic mode using the switch of the testing station. Default (key in upward position) is manual mode.
- 4: Once the controller is on automatic, the station is ready to be used. You can now manually add products on the elevator, or let the handling controller do it for you.
- 5: To stop the controller, the stop button of the testing station can be pressed. The system will then stop after it finishes its current operation.

## Error handling

### Reset

If the rejection buffer is full (5 items), the controller cannot continue if it receives another faulty product. When this is the case, Q1 of the buffering station lights up indicating that the operator should remove all the products off the rejection buffer. After the operator has completed this task, he must press the reset button of the testing station to allow the system to continue.

### Sensor malfunction

When a sensor malfunctions, i.e. does not turn on when it should, Q2 of the testing station lights up. After the operator has solved the problem, the start button of the testing station can be pressed to resume operation.

### LED indicators

When a product is removed or a sensor fails, the operator is alerted by lighting up Q1 of the buffering station. When this is the case, the operator must identify what went wrong and press the reset button of the buffering station to resume normal operation.