

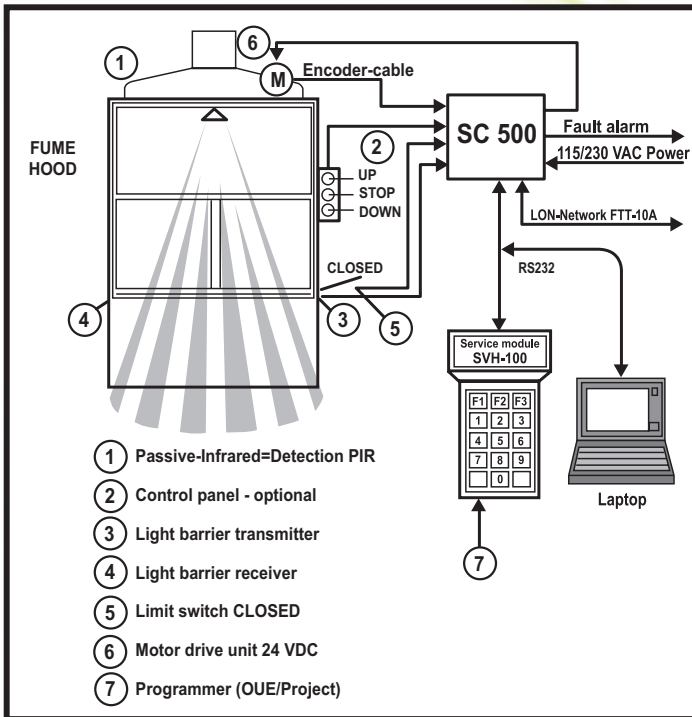
# Hamilton Automatic Sash Operator

## Functional Description

- A passive infrared movement detector (PIR) constantly monitors the work area in front of the hood
- Nonattendance directly in front of the fume hood triggers the automatic closing process of the sash following a viable closing delay (10 seconds to 30 minutes)
- An infrared light barrier, mounted to the sash plate, automatically stops the sash if an obstacle is detected during closing.
- The electromotive drive unit is equipped with a servomotor, featuring a robust magnetic clutch, and is very safe to operate.



# Hamilton Automatic Sash Operator



1. An automatic sash closing device must be provided which closes the sash when the fume hood is unoccupied. This protects the lab and personnel from unattended procedures and can provide energy savings if the hood sash location varies the hood exhaust volume via variable air volume controls. The proximity sash control shall be motor driven. A proximity motion sensor located on the face of the hood shall detect inactivity at the hood and close the sash after a predetermined time frame.
2. All features to be programmable via portable hand held service module or laptop computer (provide required laptop Software Pak to communicate with the system)
  - a. Sash stop-open positions can vary and must be programmable. Must have an adjustable delay timer for auto sash closing which can be set for a minimum of 10 seconds to a maximum of 1800 seconds (30 minutes).
  - b. Sash Stop-open shall be controlled by a microprocessor to close the fume hood sash.
  - c. Integrated power supply 120/230V AC.
  - d. All system data is saved main voltage fail-safe in the EEPROM.
  - e. Two motor speeds are programmable with soft stop.
  - f. The motor shall have an automatic and manual current shut-off.
  - g. Teach-in mode, for easy commissioning of different fume hood types.
  - h. A monitored closing process by infrared light barrier and auto shut-off at obstacle recognition must be provided. Contact switches - not acceptable.
  - i. ANSI-AIHA Z9.5 compliant.
  - j. Suitable for all types of fume hoods utilizing a vertical sash and chain and sprocket counterbalance mechanism.
  - k. Sash shall be easily operated manually.
  - l. Optional push button panel must be available.