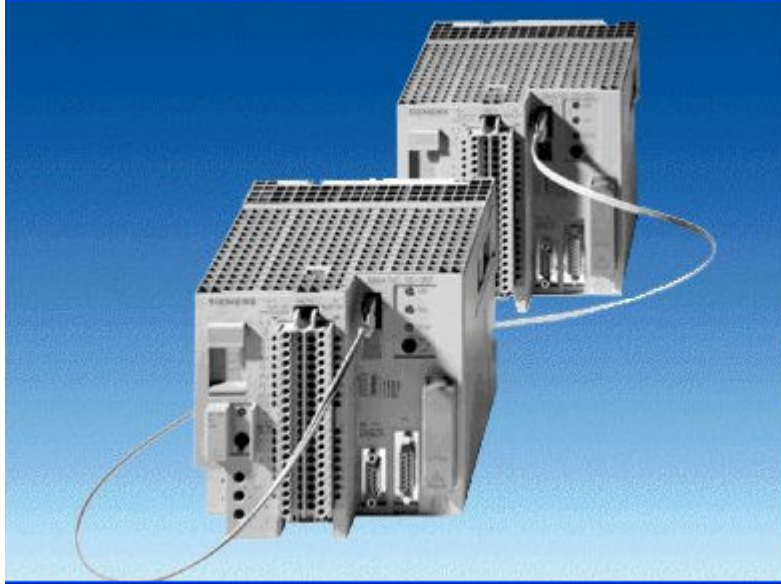


# H-/F-systems - S5-95F



## Area of application

The S5-95F programmable controller is a fail-safe mini PLC for the lower application range.

Failsafe systems (F-systems) are always required to protect personnel, environment and equipment. F systems preclude dangerous situations by entering a safe state in case of a failure, i.e. the defective component is deactivated. A mere F-PLC does not, however, increase the availability of a system or a machine.

If an automation task is to be implemented as a fail-safe solution with enhanced availability it is possible to install two S5-95F systems as a master-slave system.

The S5-95F has been approved by the relevant technical authorities in Germany.

### Typical fields of application of the S5-95F:

- Burners and boiler controls
- Presses such as eccentric presses, hydraulic presses, screw presses, stamping presses and bending presses
- Machine tools
- Industrial machines such as stamping machines, cutters
- Machine-protection devices such as protective screens, two-hand controls, emergency-off pushbuttons, muting functions
- Passenger transport systems
- Traffic signaling systems
- Chemical systems such as process furnaces, process controls, centrifuges, pollutant filters, overcharge blocks, reactors, batch processes

### Safety rules

#### Legal safety requirements

Machines and systems which can constitute a hazard for personnel are required by law to conform to the "state of the art".

The EC directives relating to machinery, and the German law on device safety (Gerätesicherheitsgesetz GSG), distinguish broadly between three types:

- Plants requiring supervision (e.g. burner controls)
- Machines subject to type examination (e.g. press controls)
- Machines/plants not subject to type examination (e.g. latches)

#### **S5-95F licenses**

The SIMATIC S5-95F has been prototype-tested by the following test institutions:

- German Technical Inspectorate (TÜV)
- Institute for Safety at Work of the German Trade Associations (BIA)
- German Trade Association EM III
- TÜV-Eurorail
- Federal Office for Railways (EBA)
- SUVA