



**FL Switch SF**  
We Make Ethernet Easy -  
While You Save !

# Factory Line Switches With Standard Functions - The Cost-Effective Alternative

To make the creation and expansion of Ethernet networks both easy and cost-effective, Phoenix Contact has added a comprehensive line of unmanaged switches with standard functions (SF) to its Factory Line Industrial Ethernet product range.

The FL Switch SF line provides connectivity to 8 or 16 copper 10/100 Mbps ports, including configurations, which support one or two multi-mode 100 Mbps glass fiber ports.

These switches provide a unique combination of affordability and maximum immunity against industrial environments.

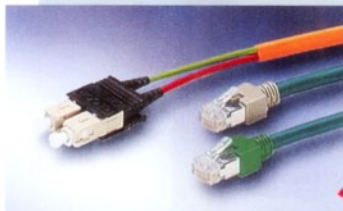
System startups and ongoing maintenance are reduced through a complete range of unmanaged switch functions such as redundant power supplies, alarm contact, auto negotiation, and cable auto crossing.

Now you can have it all. Find out for yourself by requesting a quote.



## Clear Diagnostics

The status LEDs are easy to read and indicate the transmission speed, incoming messages, and the status of the links. The alarm contact output monitors the redundant power supply.



## Wide Range of Connection Options

Six models enable you to choose the fiber optic/copper cable mix that's right for the application. While the copper cables are connected with standard RJ-45 connectors, the fiber optic cables are connected via SC-D connectors.



## Technical Data

### Housing dimensions for 8-port switch:

135 mm W x 80 mm H x 30 mm D  
(5.315 x 3.150 x 1.181 in.)

### Housing dimensions for 16-port switch:

200 mm W x 80 mm H x 30 mm D  
(7.874 x 3.150 x 1.181 in.)

### Permissible operating temperature:

0°C to +55°C (+32°F to +131°F)

### Degree of protection: IP20

### Permissible voltage range:

18.5 V DC to 30.2 V DC

### Transmission speed:

10/100 Mbps on RJ-45 ports,

100 Mbps on fiber optic ports

### Maximum network segment expansion:

100 m (328.08 ft.) for twisted pair cabling

Up to 2 km (1.24 mi.) for glass fiber cabling

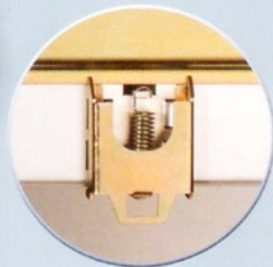
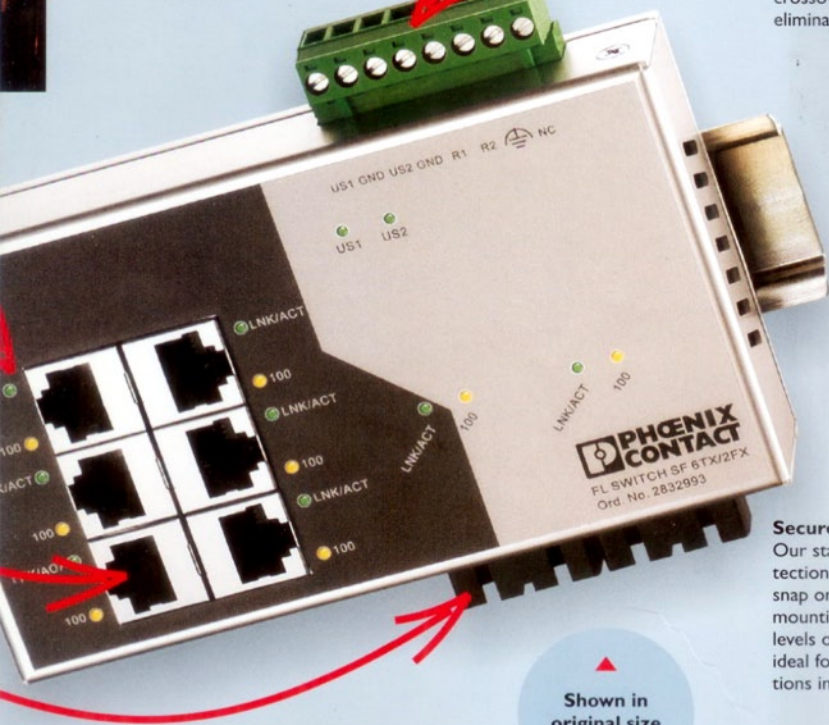


### Designed for High Reliability in Industrial Environments

The FL Switch SF line is designed to withstand the full spectrum of industrial electrical noise levels, two to three times that of commercial grade switches, and temperatures for long life and 24/7 operation.

### Fast Installation with Connectors and Autocross

Installation and wiring times are reduced considerably as the 24V power supply, ground, and alarm contact are connected by simply plugging in the COMBICON connector. The Autocross function automatically compensates for crossover vs. straight-line cable needs, eliminating cabling confusion and errors.



### Secure Distributed Installation

Our standard switches offer IP20 protection in rugged metal housings, which snap onto the DIN rail. The low profile mounting and ability to withstand high levels of shock and vibration make it ideal for distributing Ethernet connections in junction boxes.

Shown in original size

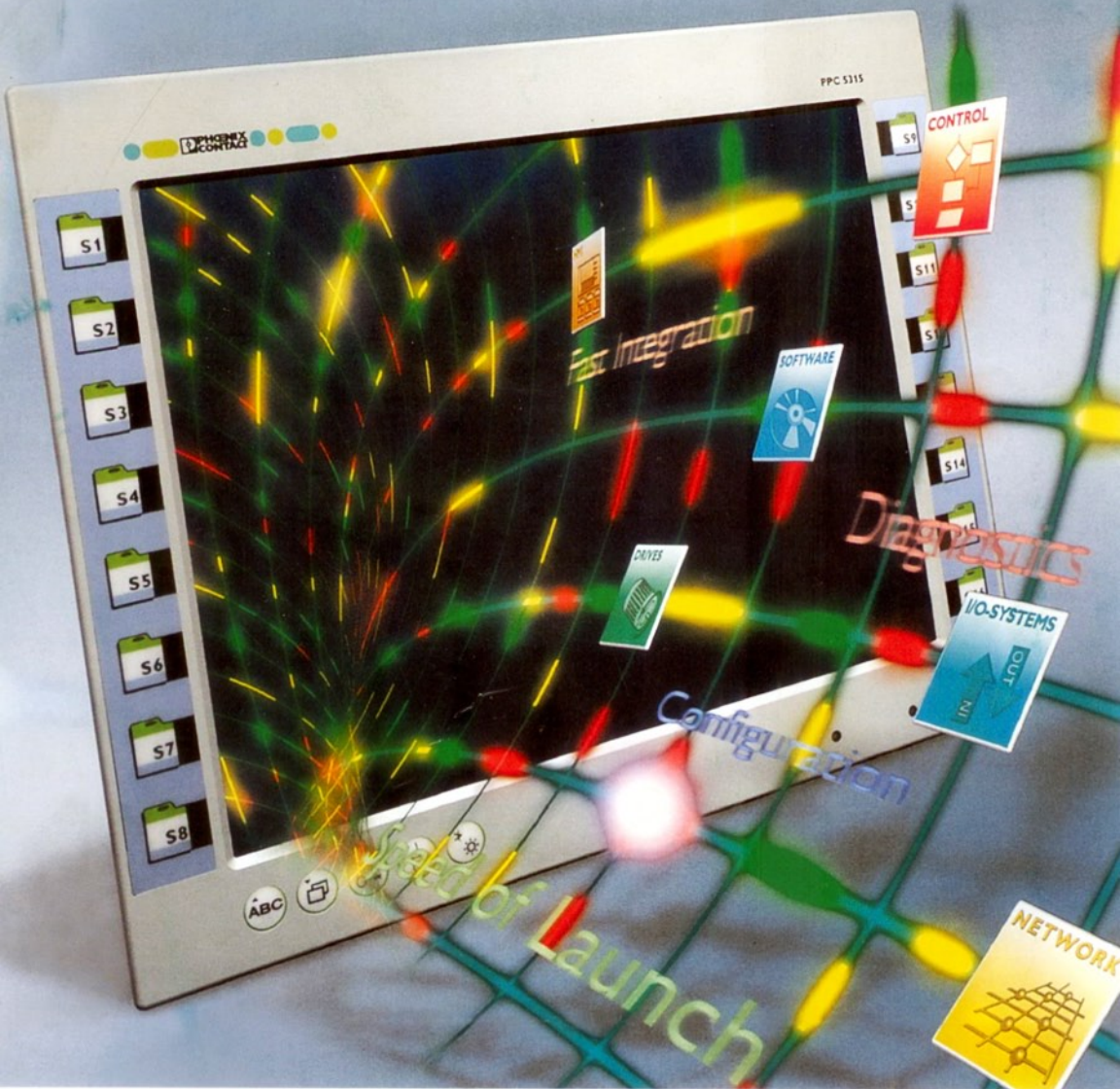
### Low Port Price

Our FL Switch SF offers you switched Ethernet performance at the price you have been paying for industrial hubs. This is the easiest, most flexible and cost-effective way to create an Ethernet network.

### Ordering Data

Order No.	Designation	Description
28 32 77 1	FL Switch SF 8TX	Ethernet switch with eight RJ-45 ports
28 32 72 6	FL Switch SF 7TX/FX	Ethernet switch with seven RJ-45 ports and one fiber optic port
28 32 93 3	FL Switch SF 6TX/2FX	Ethernet switch with six RJ-45 ports and two fiber optic ports
28 32 84 9	FL Switch SF 16TX	Ethernet switch with 16 RJ-45 ports
28 32 66 1	FL Switch SF 15TX/FX	Ethernet switch with 15 RJ-45 ports and one fiber optic port
28 32 59 3	FL Switch SF 14TX/2FX	Ethernet switch with 14 RJ-45 ports and two fiber optic ports

# AUTOMATIONWORX



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