FL SWITCH SF 14TX/2FX 2832593

Unmanaged Industrial Ethernet Switch

PUBLISHED IDENTITY

Phoenix Contact FL SWITCH SF 14TX/2FX, order number 2832593, is an unmanaged industrial Ethernet switch with fourteen RJ45 copper ports and two SC multimode fiber ports. The switch uses store-and-forward operation for 10/100 Mbps industrial networks.

Technical snapshot

Product role	Unmanaged industrial Ethernet switch
Order number	2832593
Copper ports	14 RJ45 ports
Copper data rate	10/100 Mbps with auto negotiation and auto crossing
Copper segment length	100 m maximum
Fiber ports	2 SC multimode ports
Fiber data rate	100 Mbps full duplex
Optical wavelength	1300 nm

Verified related ApterPower product pages

ABB DI811 3BSE008552R1

ABB TU831V1 3BSE013235R1

Engineering data

Official evidence organized for exact-model review

Product role	Unmanaged industrial Ethernet switch	**Fiber data rate**	100 Mbps full duplex
Order number	2832593	**Optical wavelength**	1300 nm
Copper ports	14 RJ45 ports	**Published fiber distance**	Up to 6400 m with the specified fiber
Copper data rate	10/100 Mbps with auto negotiation and auto crossing	**Supply range**	18.5 to 30.2 V DC with redundant inputs
Copper segment length	100 m maximum	**Mounting and enclosure**	DIN rail, aluminum housing, IP20
Fiber ports	2 SC multimode ports	**Operating environment**	0 to 55 °C; 5 to 95% RH, non-condensing

EVIDENCE BOUNDARY

Confirm the exact 2832593 order number, the two SC multimode interfaces and the approved 24 V DC supply arrangement before installation.

Applications and system role

Four distinct documented operating contexts

MACHINE-CELL NETWORKING

Connects multiple 10/100 Mbps controllers and operator devices through the fourteen copper ports.

FIBER CABINET UPLINKS

Uses the two SC multimode interfaces to extend approved optical network segments.

CONTROL-CABINET AGGREGATION

Provides unmanaged store-and-forward switching on a DIN rail with redundant DC supplies.

LEGACY FAST ETHERNET EXPANSION

Adds mixed copper and multimode connectivity without introducing a managed configuration layer.

Integration control

Use the full FL SWITCH SF 14TX/2FX and 2832593 identity when planning the cabinet and network. Confirm the multimode fiber type, optical budget, copper segment lengths, redundant supply wiring and signaling contact before commissioning. After connection, verify port speed, link/activity indications and end-to-end communication for every affected segment.

Verified related ApterPower product pages

ABB DSBC174 3BSE012211R1

ABB SR511 3BSE000863R1

Technical questions

Complete model-specific answers from the approved evidence set

What role does Phoenix Contact FL SWITCH SF 14TX/2FX 2832593 perform?

Phoenix Contact FL SWITCH SF 14TX/2FX 2832593 performs the documented role of a unmanaged industrial ethernet switch within its approved system architecture.

What published value is associated with copper ports on FL SWITCH SF 14TX/2FX 2832593?

The published copper ports for FL SWITCH SF 14TX/2FX 2832593 is 14 RJ45 ports.

How does the documentation identify copper data rate for FL SWITCH SF 14TX/2FX 2832593?

Documentation identifies copper data rate for FL SWITCH SF 14TX/2FX 2832593 as 10/100 Mbps with auto negotiation and auto crossing.

Which value should be checked for copper segment length when servicing FL SWITCH SF 14TX/2FX 2832593?

Service personnel should check copper segment length against the documented value of 100 m maximum.

Where does FL SWITCH SF 14TX/2FX 2832593 fit in the published system?

Within the published architecture, FL SWITCH SF 14TX/2FX 2832593 functions as the unmanaged industrial ethernet switch described for the installed equipment.

Why must the complete FL SWITCH SF 14TX/2FX 2832593 marking be recorded?

Recording the complete marking prevents a different suffix, rating or hardware configuration from being substituted during maintenance.

When FL SWITCH SF 14TX/2FX 2832593 is replaced, what must technicians verify?

Technicians must verify the installed fiber ports, mating hardware, wiring and approved configuration before energization.

Which acceptance check completes work on FL SWITCH SF 14TX/2FX 2832593?

Commissioning is complete only after identity, wiring, diagnostics and every affected operating function have passed the approved checks.

Product precautions

Eight aligned controls before return to service

1. Record the complete FL SWITCH SF 14TX/2FX and 2832593 identity.
2. Isolate both redundant 24 V DC supply inputs before wiring changes.
3. Verify the multimode fiber type and optical distance for each SC link.
4. Inspect RJ45, SC and signaling-contact connectors before installation.
5. Keep copper segments within the published 100 m maximum length.
6. Mount the switch on the approved DIN rail with cabinet ventilation maintained.
7. Restore both supplies and confirm US1/US2 plus link, activity and speed LEDs.
8. Test every affected Ethernet path and record the final port map before release.

Verified related ApterPower product pages

- Allen-Bradley 2711P-RN15S
- Allen-Bradley 1762-L40BWA
- Allen-Bradley 2711P-B15C22D9P
- Fuji Electric 2MBI600VXA-120E-51

Evidence and support

Manufacturer references, related products and direct contact

Manufacturer evidence used

- Phoenix Contact exact product record for FL SWITCH SF 14TX/2FX, order number 2832593.
- Phoenix Contact technical data for copper, multimode fiber and supply interfaces.
- Phoenix Contact environmental and mounting specifications for the unmanaged switch.

Verified related ApterPower product pages

Fuji Electric NP1L-TMB

ABB 07KR91 GJR5250000R0101

ABB 07DI92

ABB 07KT92 GJR5250500R0902

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ABB 07KP60R101 GJV3074360R101

ABB 07NG61R1 GJV3074311R1