

# Industrial Ethernet Switch - FL SWITCH SFN 7TX/FX - 2891097

Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid (<http://phoenixcontact.com/download>)




Ethernet Switch, 7 TP RJ45 ports, 1 FO port, 100 Mbps full duplex in SC-D format, automatic detection of data transmission speed of 10 or 100 Mbps (RJ45), autocrossing function

## Your advantages

- ✓ Auto negotiation and autocrossing detection simplifies installation and setup
- ✓ The switch also offers cable locking and port blocking
- ✓ Local diagnostic indicators with LEDs
- ✓ RJ45 ports support a transmission speed of 10/100 Mbps; fiber optic ports support 100 Mbps
- ✓ QoS-prioritized (Quality of Service) messages

## Key Commercial Data

|              |   |
|--------------|---|
| Packing unit | 1 pc  |
| GTIN         | <br>4 046356 100830 |
| GTIN         | 4046356100830   |

## Technical data

### Note

|                         |   |
|-------------------------|---|
| Utilization restriction | EMC: class A product, see manufacturer's declaration in the download area |
|-------------------------|---|

### Dimensions

|        |        |
|--------|--------|
| Width  | 50 mm  |
| Height | 120 mm |
| Depth  | 70 mm  |

### Ambient conditions

|   |                               |
|---|-------------------------------|
| Degree of protection                    | IP20                          |
| Ambient temperature (operation)         | 0 °C ... 60 °C                |
| Ambient temperature (storage/transport) | -20 °C ... 70 °C              |
| Permissible humidity (operation)        | 5 % ... 95 % (non-condensing) |

# Industrial Ethernet Switch - FL SWITCH SFN 7TX/FX - 2891097

## Technical data

### Ambient conditions

|  |   |
|--|---|
| Permissible humidity (storage/transport) | 5 % ... 95 % (non-condensing)                     |
| Air pressure (operation)                 | 86 kPa ... 108 kPa (up to 1500 m above sea level) |
| Air pressure (storage/transport)         | 66 kPa ... 108 kPa (up to 3500 m above sea level) |

### Interfaces

|                               |                                   |
|-------------------------------|-----------------------------------|
| Interface                     | Ethernet (RJ45)                   |
| No. of ports                  | 7 (RJ45 ports)                    |
| Note on the connection method | Auto negotiation and autocrossing |
| Transmission physics          | Ethernet in RJ45 twisted pair     |
| Transmission speed            | 10/100 Mbps                       |
| Interface                     | Fiber optic interface             |
| No. of ports                  | 1 (SC multi-mode)                 |
| Transmission physics          | multi-mode fiberglass             |
| Transmission speed            | 100 Mbps (full duplex)            |
| Transmission length           | 2000 m (Fiberglass 50/125)        |
|                               | 2000 m (Fiberglass 62.5/125)      |
| Wavelength                    | 1300 nm                           |

### Function

|                                  |   |
|----------------------------------|---|
| Basic functions                  | Unmanaged switch / auto negotiation, complies with IEEE 802.3, store and forward switching mode |
| Additional functions             | Autonegotiation   |
| Status and diagnostic indicators | LEDs: U <sub>s</sub> , link and activity per port   |

### Network expansion parameters

|   |  |
|---|--|
| Cascading depth                         | Network, linear, and star structure: any |
| Maximum conductor length (twisted pair) | 100 m                                    |

### Supply voltage

|                             |  |
|-----------------------------|--|
| Supply voltage              | 24 V DC  |
| Residual ripple             | 3.6 V <sub>PP</sub> (within the permitted voltage range) |
| Supply voltage range        | 9 V DC ... 32 V DC                                       |
| Typical current consumption | 190 mA (at U <sub>s</sub> = 24 V DC)                     |

### General

|                  |   |
|------------------|---|
| Mounting type    | DIN rail  |
| Type AX          | Block design  |
| Net weight       | 505.7 g   |
| Housing material | Aluminum  |
| MTTF             | 67.3 Years (MIL-HDBK-217F standard, temperature 25°C, operating cycle 100%) |

### Standards and Regulations

|                               |  |
|-------------------------------|--|
| Electromagnetic compatibility | Conformance with EMC Directive 2004/108/EC |
| Noise emission                | EN 61000-6-4                               |

# Industrial Ethernet Switch - FL SWITCH SFN 7TX/FX - 2891097

## Technical data

### Standards and Regulations

|   |  |
|---|--|
| Noise immunity  | EN 61000-6-2:2005                      |
| Vibration (storage/transport)                                     | 5g, 150 Hz, in acc. with IEC 60068-2-6 |
| Free from substances that could impair the application of coating | In acc. with VW specification          |
| Vibration (operation)   | in acc. with IEC 60068-2-6: 5g, 150 Hz |

### Environmental Product Compliance

|            |   |
|------------|---|
| REACH SVHC | Lead 7439-92-1  |
| China RoHS | Environmentally Friendly Use Period = 10;   |
|            | For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration" |

## Classifications

### eCl@ss

|               |          |
|---------------|----------|
| eCl@ss 10.0.1 | 19170402 |
| eCl@ss 4.0    | 27250500 |
| eCl@ss 4.1    | 27250500 |
| eCl@ss 5.0    | 19030100 |
| eCl@ss 5.1    | 19030100 |
| eCl@ss 6.0    | 19170100 |
| eCl@ss 7.0    | 19170106 |
| eCl@ss 8.0    | 19170106 |
| eCl@ss 9.0    | 19170106 |

### ETIM

|          |          |
|----------|----------|
| ETIM 2.0 | EC000734 |
| ETIM 3.0 | EC000734 |
| ETIM 4.0 | EC000734 |
| ETIM 5.0 | EC000734 |
| ETIM 6.0 | EC000734 |
| ETIM 7.0 | EC000734 |

### UNSPSC

|               |          |
|---------------|----------|
| UNSPSC 6.01   | 43172015 |
| UNSPSC 7.0901 | 43201404 |
| UNSPSC 11     | 43172015 |
| UNSPSC 12.01  | 43201410 |
| UNSPSC 13.2   | 43222612 |
| UNSPSC 18.0   | 43222612 |
| UNSPSC 19.0   | 43222612 |
| UNSPSC 20.0   | 43222612 |
| UNSPSC 21.0   | 43222612 |

# Industrial Ethernet Switch - FL SWITCH SFN 7TX/FX - 2891097

## Approvals

### Approvals

---

#### Approvals

UL Listed / cUL Listed / EAC / KC / UL Listed / cUL Listed

---

#### Ex Approvals

UL Listed / cUL Listed / UL Listed / cUL Listed

---

### Approval details

|           |  |   |               |
|-----------|--|---|---------------|
| UL Listed |  | <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> | FILE E 140324 |
|-----------|--|---|---------------|

|            |  |   |               |
|------------|--|---|---------------|
| cUL Listed |  | <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> | FILE E 140324 |
|------------|--|---|---------------|

|     |  |  |                         |
|-----|--|--|-------------------------|
| EAC |  |  | RU*-<br>DE.*.B.00741/19 |
|-----|--|--|-------------------------|

|    |  |   |                          |
|----|--|---|--------------------------|
| KC |  | <a href="http://eng.kcc.go.kr/user/ehpMain.do">http://eng.kcc.go.kr/user/ehpMain.do</a> | KCC-REI-<br>PCK-FL289109 |
|----|--|---|--------------------------|

|           |  |   |               |
|-----------|--|---|---------------|
| UL Listed |  | <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> | FILE E 238705 |
|-----------|--|---|---------------|

|            |  |   |               |
|------------|--|---|---------------|
| cUL Listed |  | <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> | FILE E 238705 |
|------------|--|---|---------------|

## Accessories

### Accessories

Data cable preassembled

## Industrial Ethernet Switch - FL SWITCH SFN 7TX/FX - 2891097

### Accessories

Patch cable - NBC-R4AC-R4AC-IE8A/.../... - 1411854



Patch cable, degree of protection: IP20, number of positions: 8, 10 Gbps, CAT6<sub>A</sub>, cable outlet: straight

---

Patch cable - NBC-R4AC/10G-R4AC/10G-94F/2,0 - 1408360



Patch cable, CAT6<sub>A</sub>, 4-pair, shielded, connection not crossed (line), assembled at both ends with RJ45/IP20 connectors, outer sheath material: PUR, length: 2.0 m

---

Patch cable - NBC-R4AC/10G-R4AC/10G-94F/3,0 - 1408365



Patch cable, CAT6<sub>A</sub>, 4-pair, shielded, connection not crossed (line), assembled at both ends with RJ45/IP20 connectors, outer sheath material: PUR, length: 3.0 m

---

Patch cable - NBC-R4AC/1,0-93B/R4AC - 1408968



PROFINET patch cable, shielded, star-quad, 22 AWG stranded (7-wire), green, straight RJ45 male connector/IP20 to straight RJ45 male connector/IP20, length: 1.0 m

---

Patch cable - NBC-R4AC/2,0-93B/R4AC - 1408969



PROFINET patch cable, shielded, star quad, 22 AWG stranded (7-wire), green, straight RJ45 plug/IP20, to straight RJ45 plug/IP20, length: 2 m

---

## Industrial Ethernet Switch - FL SWITCH SFN 7TX/FX - 2891097

### Accessories

Patch cable - NBC-R4AC/5,0-93B/R4AC - 1408970



PROFINET patch cable, shielded, star quad, 22 AWG stranded (7-wire), green, straight RJ45 plug/IP20 to straight RJ45 plug/IP20, length: 5 m

---

FO patch cable - FOC-LC:PA-SC:PA-OM2:D01/1 - 1115607



FO patch cable - FOC-LC:PA-SC:PA-OM2:D01/2 - 1115605



FO patch cable - FOC-SC:PA-SC:PA-OM2:D01/1 - 1115536



Multi-mode OM2 duplex jumper, SC-SC, UPC polishing, length 1 m

---

FO patch cable - FOC-SC:PA-SC:PA-OM2:D01/2 - 1115535



Multi-mode OM2 duplex jumper, SC-SC, UPC polishing, length 2 m

---

# Industrial Ethernet Switch - FL SWITCH SFN 7TX/FX - 2891097

## Accessories

FO patch cable - FOC-ST:PA-SC:PA-OM2:D01/1 - 1115574



Multi-mode OM2 duplex jumper, ST-SC, UPC polishing, length 1 m

---

FO patch cable - FOC-ST:PA-SC:PA-OM2:D01/2 - 1115573



Multi-mode OM2 duplex jumper, ST-SC, UPC polishing, length 2 m

---

FO patch cable - FOC-LC:PA-SC:PA-OM4:D01/1 - 1115601



Multi-mode OM4 duplex jumper, LC-SC, UPC polishing, length 1 m

---

FO patch cable - FOC-LC:PA-SC:PA-OM4:D01/2 - 1115600



Multi-mode OM4 duplex jumper, LC-SC, UPC polishing, length 2 m

---

FO patch cable - FOC-SC:PA-SC:PA-OM4:D01/1 - 1115424



Multi-mode OM4 duplex jumper, SC-SC, UPC polishing, length 1 m

---

# Industrial Ethernet Switch - FL SWITCH SFN 7TX/FX - 2891097

## Accessories

FO patch cable - FOC-SC:PA-SC:PA-OM4:D01/2 - 1115423



Multi-mode OM4 duplex jumper, SC-SC, UPC polishing, length 2 m

---

## End block

End clamp - E/NS 35 N - 0800886



End clamp, width: 9.5 mm, color: gray

---

## Mounting rail adapter

DIN rail adapter - FL DIN RA - 2891053



The FL DIN RA is installed in a standard, 19-inch rack (EIA-310-D, IEC 60297-3-100) to allow DIN rail mounted equipment to be rack mounted.

---

## Patch cable

Patch cable - FL CAT5 PATCH 0,5 - 2832263



Patch cable, CAT5, assembled, 0.5 m

---

Patch cable - FL CAT5 PATCH 1,0 - 2832276



Patch cable, CAT5, assembled, 1 m

---



## Industrial Ethernet Switch - FL SWITCH SFN 7TX/FX - 2891097

### Accessories

Patch cable - FL CAT5 PATCH 2,0 - 2832289



Patch cable, CAT5, assembled, 2 m

---

### PCB plug

Printed-circuit board connector - MSTB 2,5/ 4-ST - 1754481



PCB connector, nominal current: 12 A, rated voltage (III/2): 320 V, nominal cross section: 2.5 mm<sup>2</sup>, number of positions: 4, pitch: 5 mm, connection method: Screw connection with tension sleeve, color: green, contact surface: Tin

---

### Protective cap

Dust protection - FL RJ45 PROTECT CAP - 2832991



Dust protection caps for RJ45 socket

---

### Safety locking

Port Guard Security Element - FL SEC PAC 4TX - 2832865



Layer1 security elements for four RJ45 network connections for use with patch boxes and panels

---

### Surge protection for information technology

Surge protection device - DT-LAN-CAT.6+ - 2881007



Surge protection in accordance with Class E<sub>A</sub> (CAT6<sub>A</sub>), for Gigabit Ethernet (up to 10 Gbps), token ring, FDDI/ CDDI, ISDN, and DS1. Suitable for Power over Ethernet (PoE+) "Mode A" and "Mode B". RJ45 attachment plug with separate grounding cable and ground connection snap-on foot for NS 35 DIN rails.

---

Phoenix Contact 2020 © - all rights reserved  
<http://www.phoenixcontact.com>

PHOENIX CONTACT GmbH & Co. KG  
Flachsmarktstr. 8  
32825 Blomberg  
Germany  
Tel. +49 5235 300  
Fax +49 5235 3 41200  
<http://www.phoenixcontact.com>

## X-ON Electronics

Largest Supplier of Electrical and Electronic Components

*Click to view similar products for [Ethernet Modules](#) category:*

*Click to view products by [Phoenix Contact](#) manufacturer:*

Other Similar products are found below :

[TDKEZW3](#) [V23993-USB1029A](#) [100-POE4](#) [I210T1BLK](#) [X520QDA1](#) [BCM84794A1KFSBG](#) [X520DA2OCP](#) [808-38157](#) [7506GX2](#) [TC](#)  
[EXTENDER 2001 ETH-2S](#) [105FX-SC-MDR](#) [110FX2-SC](#) [BCM54291B0IQLEG](#) [7000-P3201-P050150](#) [750-1415](#) [750-1515](#) [750-494](#) [750-](#)  
[495](#) [750-497](#) [750-612](#) [750-627](#) [750-643](#) [750-940](#) [753-440](#) [753-540](#) [753-650/003-000](#) [852-1322](#) [852-1328](#) [852-1812](#) [852-1813](#) [852-1816](#)  
[LANTICK PE-0-16](#) [LANTICK PE-16-0](#) [RBMTXLITE-L4X2.X.X.X.X.](#) [USR-TCP232-T2](#) [2017008](#) [EKI-7708E-4F-AE](#) [EKI-7708E-4FP-AE](#)  
[EKI-7708G-4FP-AE](#) [2352903-2](#) [EGU-0702-SFP-T](#) [SW-125](#) [SW-525](#) [SW-725](#) [1005957](#) [1006191](#) [304TX-N](#) [WIZ107SR\\_TTL](#) [ES-320](#)  
[TDKEZW5](#)