PHŒNIX CONTACT

Industrial Ethernet Switch - FL SWITCH SFN 6TX/2FX-NF - 2891024

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, 6 TP RJ45 ports, 2 FO ports, 100 Mbps full duplex in SC-D format, automatic detection of data transmission speed of 10 or 100 Mbps (RJ45), autocrossing function, flow control disabled

Your advantages

☑ Auto negotiation and autocrossing detection simplifies installation and setup

☑ Local diagnostic indicators with LEDs

☑ The switch also offers cable locking and port blocking

☑ RJ45 ports support a transmission speed of 10/100 Mbps; fiber optic ports support 100 Mbps

☑ QoS-prioritized (Quality of Service) messages

RoHS

Key Commercial Data

Packing unit	1 pc
GTIN	4 046356 500098
GTIN	4046356500098
Weight per Piece (excluding packing)	509.900 g
Custom tariff number	85176200
Country of origin	Taiwan

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

Industrial Ethernet Switch - FL SWITCH SFN 6TX/2FX-NF - 2891024

Technical data

Ambient conditions

Ambient temperature (operation)	0 °C ... 60 °C
Ambient temperature (storage/transport)	-20 °C ... 70 °C
Permissible humidity (operation)	5 % ... 95 % (non-condensing)
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	6 (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	2 (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 / autonegotiation, complies with IEEE 802.3, store and forward switching mode, no flow control
Additional functions	Autonegotiation
Status and diagnostic indicators	LEDs: U_S, 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_{PP} (within the permitted voltage range)
Supply voltage range	18.5 V DC ... 30.2 V DC
Typical current consumption	230 mA (at U_S = 24 V DC)

General

Mounting type	DIN rail
Type AX	Block design
Net weight	509.9 g
Housing material	Aluminum
MTTF	61.9 Years (MIL-HDBK-217F standard, temperature 25°C, operating cycle 100%)

Industrial Ethernet Switch - FL SWITCH SFN 6TX/2FX-NF - 2891024

Technical data

Standards and Regulations

Electromagnetic compatibility	Conformance with EMC Directive 2004/108/EC
Noise emission	EN 61000-6-4
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	24010500
eCl@ss 4.1	24010500
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 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

PHŒNIX CONTACT

Industrial Ethernet Switch - FL SWITCH SFN 6TX/2FX-NF - 2891024

Classifications

UNSPSC

UNSPSC 21.0	43222612

Approvals

Approvals

Approvals

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

Ex Approvals

UL Listed / cUL Listed / cULus Listed

Approval details

UL Listed		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 140324

cUL Listed		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 140324

EAC		RU *-DE.A*08.B.00739

EAC		RU*-DE.*.B.00741/19

UL Listed		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 238705

cUL Listed		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 238705

Accessories

Accessories

Industrial Ethernet Switch - FL SWITCH SFN 6TX/2FX-NF - 2891024

Accessories

Data cable preassembled

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

Patch cable, degree of protection: IP20, number of positions: 8, 10 Gbps, CAT6$_A$, cable outlet: straight

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

Patch cable, CAT6$_A$, 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$_A$, 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 6TX/2FX-NF - 2891024

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

Fiber optic cable - FOC-LC:PA-SC:PA-OM2:D01/1 - 1115607

Fiber optic cable - FOC-LC:PA-SC:PA-OM2:D01/2 - 1115605

Fiber optic cable - FOC-SC:PA-SC:PA-OM2:D01/1 - 1115536

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

Fiber optic 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 6TX/2FX-NF - 2891024

Accessories

Fiber optic cable - FOC-ST:PA-SC:PA-OM2:D01/1 - 1115574

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

Fiber optic cable - FOC-ST:PA-SC:PA-OM2:D01/2 - 1115573

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

Fiber optic cable - FOC-LC:PA-SC:PA-OM4:D01/1 - 1115601

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

Fiber optic cable - FOC-LC:PA-SC:PA-OM4:D01/2 - 1115600

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

Fiber optic 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 6TX/2FX-NF - 2891024

Accessories

Fiber optic 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 6TX/2FX-NF - 2891024

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 mm², 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_A (CAT6$_A$), 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.