FL SWITCH SFN 6GT/2LX - Industrial Ethernet Switch

2891987

https://www.phoenixcontact.com/us/products/2891987

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 documentation. Our general terms of use for downloads are valid.

Ethernet switch, 6 RJ45 ports, 10/100/1000 Mbps on all RJ45 ports, 2 single mode SC-D ports with high range, 1 Gbps full duplex, auto negotiation (RJ45), autocrossing function, with signal contact and QoS, extended temperature range

Your advantages

- Jumbo frame support (frame size up to 9600 bytes/frame)
- All ports offer transmission speeds of 1000 Mbps
- Local diagnostic indicators with LEDs
- Relay contact for alarm processing of voltage states
- The switch also offers cable locking and port blocking
- Auto negotiation and autocrossing detection simplifies installation and setup

Commercial data

Item number	2891987
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DN19
Product key	DNN113
GTIN	4046356101202
Weight per piece (including packing)	478.5 g
Weight per piece (excluding packing)	435 g
Customs tariff number	85176200
Country of origin	TW

Technical data

Dimensions

Width	50 mm
Height	120 mm
Depth	70 mm

Material specifications

Housing material	Aluminum

Mounting

Mounting type	DIN rail mounting

Interfaces

Ethernet (RJ45)

Connection method	RJ45
Note on the connection method	Auto negotiation and autocrossing
Transmission speed	10/100/1000 Mbps
Transmission physics	Ethernet in RJ45 twisted pair
No. of channels	6 (RJ45 ports)

Fiber optic interface

Connection method	SC
Transmission speed	1000 Mbps (full duplex)
Transmission physics	Single-mode fiberglass
Transmission length	10000 m (Fiberglass 9/125)
Wavelength	1310 nm
No. of channels	2 (SC single mode)

Potential-free signaling contact

Connection method	Plug-in/screw connection via COMBICON

Product properties

Product type	Switch
Product family	Unmanaged Switch SFN
Type	Block design
MTTF	24.3 Years (MIL-HDBK-217F standard, temperature 25°C, operating cycle 100%)
Basic functions	Unmanaged switch / auto negotiation, complies with IEEE 802.3, store and forward switching mode

Insulation characteristics

Protection class	III (IEC 61140, EN 61140, VDE 0140-1)

Switch functions

Basic functions	Unmanaged switch / auto negotiation, complies with IEEE 802.3,

	store and forward switching mode
Signal contact control voltage	Monitoring of the redundant supply voltage
PROFINET conformance class	Conformance-Class A
Status and diagnostic indicators	LEDs: U_{S1}, U_{S2} (redundant voltage supply), link and activity per port
Additional functions	Autonegotiation
	Jumbo frames (max. 9,600 bytes)

Security functions

Basic functions	Unmanaged switch / auto negotiation, complies with IEEE 802.3, store and forward switching mode

Electrical properties

Local diagnostics	US1/2 Supply voltage Green LED
	100/ACT Link status/data transmission Yellow LED
	1000/ACT Link status/data transmission Yellow LED
Maximum power dissipation for nominal condition	8.4 W
Test section	500 V DC 1 min
Transmission medium	Copper
	FO

Supply

Supply voltage (DC)	24 V DC (redundant)
Supply voltage range	9 V DC ... 32 V DC
Residual ripple	3.6 V_{PP} (within the permitted voltage range)
Typical current consumption	360 mA (at U_S = 24 V DC)

Function

Signal contact control voltage	Monitoring of the redundant supply voltage

Connection data

Connection method	Screw connection
Conductor cross-section, rigid	0.2 mm² ... 2.5 mm²
Conductor cross-section, flexible	0.2 mm² ... 2.5 mm²
Conductor cross-section AWG	24 ... 14
Stripping length	7 mm

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-25 °C ... 75 °C
Ambient temperature (storage/transport)	-35 °C ... 85 °C
Permissible humidity (operation)	5 % ... 95 % (non-condensing)
Permissible humidity (storage/transport)	5 % ... 95 % (non-condensing)
Vibration (operation)	in acc. with IEC 60068-2-6: 5g, 150 Hz
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)
Resistance to gases that may endanger the functions, in acc. with DIN 40046-36, DIN 40046-37	Sulfur dioxide (SO_2) 10 ±0.3 cm^3/m^3, hydrogen sulfide (H_2S) 1 ±0.3 cm^3/m^3, at 25°C and 75% humidity and exposure of four days

EMC data

Electromagnetic compatibility	Conformance with EMC Directive 2004/108/EC
Noise immunity	EN 61000-6-2:2005

Noise emission

Standards/regulations	EN 61000-6-4

System properties

Functionality

Basic functions	Unmanaged switch / auto negotiation, complies with IEEE 802.3, store and forward switching mode

Signaling

Status display	LEDs: U_{S1}, U_{S2} (redundant voltage supply), link and activity per port

Classifications

UNSPSC

UNSPSC 21.0	43222612

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(c), 7(a), 7(c)-I

China RoHS

Environment friendly use period (EFUP)	EFUP-10
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

EU REACH SVHC

REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)

Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com