

# FL SWITCH SFN 8GT - Industrial Ethernet Switch



2891673

<https://www.phoenixcontact.com/us/products/2891673>

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Ethernet switch, eight TP-RJ45 ports with 10/100/1000 Mbps on all ports, automatic detection of data transmission speed of 10/100/1000 Mbps (RJ45), autocrossing function, with signaling contact and QoS, extended temperature range

## Your advantages

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

## Commercial data

Item number	2891673
Packing unit	1 pc
Sales key	DN19
Product key	DNN113
Catalog page	Page 294 (C-6-2019)
GTIN	4046356101172
Weight per piece (including packing)	542.8 g
Weight per piece (excluding packing)	395 g
Customs tariff number	85176200
Country of origin	TW

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## Technical data

### Dimensions

Width	50 mm
Height	120 mm
Depth	70 mm

### Material specifications

Housing material	Aluminum
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### Mounting

Mounting type	DIN rail mounting
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### 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	8 (RJ45 ports)

#### Potential-free signaling contact

Connection method	Plug-in/screw connection via COMBICON
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### Product properties

Type	Block design
Product type	Switch
Product family	Unmanaged Switch SFN
MTTF	55.4 Years (MIL-HDBK-217F standard, temperature 25°C, operating cycle 100%)

#### Insulation characteristics

Protection class	III (IEC 61140, EN 61140, VDE 0140-1)
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#### 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 <sub>S1</sub> , U <sub>S2</sub> (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,
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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	10.32 W
Test section	500 V DC 1 min.
Transmission medium	Copper
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## Supply

Supply voltage (DC)	24 V DC (redundant)
Supply voltage range	9 V DC ... 32 V DC
Residual ripple	3.6 V <sub>PP</sub> (within the permitted voltage range)
Typical current consumption	430 mA (at U <sub>S</sub> = 24 V DC)

## Function

Signal contact control voltage	Monitoring of the redundant supply voltage
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## Connection data

### Connection technology

Connection name	Power supply
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### Power supply

Connection method	Screw connection
Conductor cross section, rigid	0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross section, flexible	0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross section AWG	24 ... 12
Stripping length	7 mm

## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-40 °C ... 75 °C
Ambient temperature (storage/transport)	-40 °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 <sub>2</sub> ) 10 ±0.3 cm <sup>3</sup> /m <sup>3</sup> , hydrogen sulfide (H <sub>2</sub> S) 1 ±0.3 cm <sup>3</sup> /m <sup>3</sup> , at 25 °C and 75% humidity and exposure of four days

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## Approvals

### Conformity/Approvals

Conformance	CE-compliant
UL, USA / Canada	Class I, Div. 2, Groups A, B, C, D

## EMC data

Noise immunity	EN 61000-6-2:2005
Electromagnetic compatibility	Conformance with EMC Directive 2004/108/EC
Noise emission	EN 61000-6-4

## System properties

### Functionality

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

Status display	LEDs: U <sub>S1</sub> , U <sub>S2</sub> (redundant voltage supply), link and activity per port
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## Classifications

### ECLASS

ECLASS-12.0	19170402
ECLASS-11.0	19170402
ECLASS-13.0	19170402

### ETIM

ETIM 9.0	EC000734
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### UNSPSC

UNSPSC 21.0	43222600
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## Environmental product compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 10; For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

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