

# FL SWITCH EP4208-4SFP-LV - Industrial Ethernet Switch



1732183

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Managed switch with eight RJ45 ports at 10/100/1000 Mbps, four SFP ports at 100/1000 Mbps, and operating temperature of -40 ... +85°C, redundant power supply: 12 ... 48 V DC

## Product description

Developed according to IEC 61850-3 (Ambient conditions)

## Your advantages

- Network structure according to IEC 61850
- IEEE 1613
- Layer 2 managed switch

## Commercial data

Item number	1732183
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DN36
Product key	DNN514
GTIN	4067923290143
Weight per piece (including packing)	2,002 g
Weight per piece (excluding packing)	1,421 g
Customs tariff number	85176200
Country of origin	TW

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## Technical data

### Dimensions

Width	72 mm
Height	170 mm
Depth	140 mm

### Notes

#### Note on application

Note on application	Only for industrial use
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### Material specifications

Color	gray
Housing material	Metal

### Mounting

Mounting type	DIN rail mounting
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### Interfaces

#### Ethernet

Connection method	RJ45
Note on the connection method	Auto negotiation and autocrossing
Transmission speed	10/100/1000 Mbps
Transmission physics	Copper
Transmission length	100 m (per segment)
No. of channels	8 (RJ45 ports)

#### Ethernet (SFP)

Connection method	SFP
Transmission speed	100/1000 Mbps (full duplex)
Transmission physics	Depending on the SFP module
No. of channels	4 (SFP ports)

### Output data

#### Digital:

Output name	Alarm relay output: 30 V DC, 0.6 A maximum
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### Product properties

Product type	Switch
Product family	Managed Switch EP4000
MTBF	240.1 Years (Telcordia standard, 25 °C temperature, 50% stress)
	20.2 Years (MIL-HDBK-217F standard, temperature 25°C)

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	514 Years (SN 29500 standard, temperature 25°C, operating cycle 21%)
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## Switch functions

Signal contact control voltage	30 V DC
Signal contact control current	0.6 A
MAC address table	16k
Redundancy	RSTP (Rapid Spanning Tree, IEEE 802.1w)
	STP
	MSTP
Status and diagnostic indicators	LEDs: POWER, ERROR, Link status

## Electrical properties

Local diagnostics	US1, US2 Supply voltage Green LED
	Alarm Alarm signal LED red
Maximum power dissipation for nominal condition	20 W ()

## Supply

Supply voltage (DC)	24 V DC (redundant)
Supply voltage range	12 V DC ... 48 V DC

## Function

Signal contact control voltage	30 V DC
Signal contact control current	0.6 A

## Connection data

### Connection technology

Connection name	Power supply
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### Power supply

Connection method	Screw connection
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## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP40
Ambient temperature (operation)	-40 °C ... 85 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Permissible humidity (operation)	5 % ... 95 % (non-condensing)
Permissible humidity (storage/transport)	5 % ... 95 % (non-condensing)

## Standards and regulations

Standard designation	Ambient conditions
Standards/specifications	IEC 61850-3
	IEEE 1613

## Approvals

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### Conformity/Approvals

Conformance	CE-compliant
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### EMC data

Noise immunity	IEC 61850-3, IEEE 1613
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### Signaling

Status display	LEDs: POWER, ERROR, Link status
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## Approvals

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**cULus Listed**

Approval ID: E238705-20170725

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## Classifications

### ECLASS

ECLASS-13.0	19170401
ECLASS-15.0	19170401

### ETIM

ETIM 9.0	EC000734
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	15(a), 6(c), 7(a), 7(c)-I

### China RoHS

Environment friendly use period (EFUP)	EFUP-50
	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)
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