

# FL SWITCH EP4212-4TGSFP-LV - Industrial Ethernet Switch



1732187

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Managed Switch EP4000 series, 12 RJ45 ports 10/100/1000 Mbps, 4 SFP ports 1000/10,000 Mbps, degree of protection: IP30, Ambient temperature (operation): -40 °C ... 85 °C, Supply voltage range: 12 V DC ... 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	1732187
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DN36
Product key	DNN514
GTIN	4067923290150
Weight per piece (including packing)	1,940 g
Weight per piece (excluding packing)	1,374 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 (Housing)	anthracite gray (RAL 7016)
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	12 (RJ45 ports)

Ethernet (SFP)

Connection method	SFP
Transmission speed	1000/10,000 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	231.5 Years (Telcordia standard, 25 °C temperature, 50% stress)
	23.1 Years (MIL-HDBK-217F standard, temperature 25°C)

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	579.3 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 (max.)

## Supply

Supply voltage range	12 V DC ... 48 V DC
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## Function

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

## Connection data

### Power supply

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

### Ambient conditions

Degree of protection	IP30
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

### Conformity/Approvals

Conformance	CE-compliant
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## EMC data

Noise immunity

IEC 61850-3, IEEE 1613

## Signaling

Status display

LEDs: POWER, ERROR, Link status

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1732187>



**cULus Listed**

Approval ID: E238705-20170725

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## Classifications

### ECLASS

ECLASS-13.0	19170401
ECLASS-15.0	19170401

### ETIM

ETIM 10.0	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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