

FL SWITCH EP4212-4SFP-LV - Industrial Ethernet Switch



1732181

<https://www.phoenixcontact.com/us/products/1732181>

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Managed Switch EP4000 series, 12 RJ45 ports 10/100/1000 Mbps, 4 SFP ports 100/1000 Mbps, degree of protection: IP40, 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 | 1732181 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | DN36 |
| Product key | DNN514 |
| GTIN | 4067923289550 |
| Weight per piece (including packing) | 2,031 g |
| Weight per piece (excluding packing) | 1,443 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 |
|---------------------|-------------------------|

Material specifications

| | |
|------------------|----------------------------|
| Color (Housing) | anthracite gray (RAL 7016) |
| Housing material | Metal |

Mounting

| | |
|---------------|-------------------|
| Mounting type | DIN rail mounting |
|---------------|-------------------|

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)

| | |
|----------------------|-----------------------------|
| Number of interfaces | 4 |
| 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 |
|-------------|--|

Product properties

| | |
|----------------|---|
| Product type | Switch |
| Product family | Managed Switch EP4000 |
| MTBF | 233.8 Years (Telcordia standard, 25 °C temperature, 50% stress) |
| | 19.8 Years (MIL-HDBK-217F standard, temperature 25°C) |

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| | |
|--|--|
| | 513 Years (SN 29500 standard, temperature 25°C, operating cycle 21%) |
|--|--|

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 |
| Additional functions | Jumbo frames (< 9 kB) |

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 (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

Power supply

| | |
|-------------------|------------------|
| Connection method | Screw connection |
|-------------------|------------------|

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

Conformity/Approvals

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Conformance

CE-compliant

EMC data

Noise immunity

IEC 61850-3, IEEE 1613

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 10.0 | EC000734 |
|-----------|----------|

UNSPSC

| | |
|-------------|----------|
| UNSPSC 21.0 | 43222600 |
|-------------|----------|

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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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