

# FL SWITCH EP4208-2TGSFP-LV - Industrial Ethernet Switch



1732188

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Managed Switch EP4000 series, 8 RJ45 ports 10/100/1000 Mbps, 2 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, The product is being prepared for compliance with the Cyber Resilience Act (CRA)

## 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                          | 1732188       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | DN36          |
| Product key                          | DNN514        |
| GTIN                                 | 4067923290167 |
| Weight per piece (including packing) | 1,843 g       |
| Weight per piece (excluding packing) | 1,305 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 | Only for industrial use                                                                                                                                                                                                       |
| Note on application | As things stand now, we are preparing the product so that, as of December 11, 2027, it will comply with the requirements of the EU Cyber Resilience Act (CRA) based on the information currently available regarding the CRA. |

### 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               | 8 (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      | 2 (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                                           |
|                | 238.9 Years (Telcordia standard, 25 °C temperature, 50% stress) |

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|                    |                                                                                  |
|--------------------|----------------------------------------------------------------------------------|
| MTBF               | 24.8 Years (MIL-HDBK-217F standard, temperature 25°C)                            |
|                    | 594 Years (SN 29500 standard, temperature 25°C, operating cycle 21%)             |
| Special properties | The product is being prepared for compliance with the Cyber Resilience Act (CRA) |

## 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 |
|----------------------|---------------------|

## 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                     | 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

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Conformity/Approvals

|             |              |
|-------------|--------------|
| 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

🔗 To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1732188>



**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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