

# FL SWITCH EP5216-12SFP-HV - Industrial Ethernet Switch



1732656

<https://www.phoenixcontact.com/us/products/1732656>

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Managed switch with 16 RJ45 ports for 10/100/1000 Mbps, 8 SFP ports for 100/1000 Mbps, 4 SFP ports for 1000/10000 Mbps, operating temperature: -40°C ... +85°C, power supply: 100 V AC/DC ... 240 V AC/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
- 28-port rack-mount switch

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1732656       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | DN36          |
| Product key                          | DNN513        |
| GTIN                                 | 4067923290082 |
| Weight per piece (including packing) | 6,630 g       |
| Weight per piece (excluding packing) | 5,140 g       |
| Customs tariff number                | 85176200      |
| Country of origin                    | CA            |

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## Technical data

### Dimensions

|        |        |
|--------|--------|
| Width  | 442 mm |
| Height | 44 mm  |
| Depth  | 325 mm |

### Notes

#### Note on application

|                     |                         |
|---------------------|-------------------------|
| Note on application | Only for industrial use |
|---------------------|-------------------------|

### Material specifications

|                  |       |
|------------------|-------|
| Color            | gray  |
| Housing material | Metal |

### Mounting

|               |                               |
|---------------|-------------------------------|
| Mounting type | Rack mounting                 |
| Mounting type | Rack mount, includes brackets |

### 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               | 16 (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)                  |

#### Ethernet (SFP)

|                      |                             |
|----------------------|-----------------------------|
| Connection method    | SFP                         |
| Transmission speed   | 100/1000 Mbps (full duplex) |
| Transmission physics | Depending on the SFP module |
| No. of channels      | 8 (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 EP5000 |

### 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 | 50 W ()                           |

### Supply

|                        |                                                |
|------------------------|------------------------------------------------|
| Supply voltage (AC/DC) | 120 V AC/DC (redundant)                        |
| Supply voltage range   | 100 V AC/DC ... 240 V AC/DC (Screw connection) |

### Function

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

## Connection data

### Connection technology

|                 |              |
|-----------------|--------------|
| Connection name | Power supply |
|-----------------|--------------|

### Power supply

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

## Environmental and real-life conditions

### Ambient conditions

|                                          |                                                      |
|------------------------------------------|------------------------------------------------------|
| Degree of protection                     | IP40                                                 |
| Ambient temperature (operation)          | -40 °C ... 85 °C (Type tested to 85 °C for 16 hours) |
| 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        |

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|  |           |
|--|-----------|
|  | IEEE 1613 |
|--|-----------|

Approvals

|                      |              |
|----------------------|--------------|
| 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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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: n/a) |
|-------------------------------------|----------------|

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