

FL SWITCH EP7428R-L3F1-C1 - Industrial Ethernet Switch



1216924

<https://www.phoenixcontact.com/gb/products/1216924>

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Ethernet gigabit modular switch with slots for twenty-four 10/100/1000 Mbps copper or 100/1000 Mbps SFP ports and four 1000/10,000 Mbps SFP ports using hot-swappable rear modules. Conformal coating for harsh environments.



Your advantages

- Layer 2 and Layer 3 functions
- Modules allow device connections to expand from 10/100 Mbps to 1000 Mbps, and uplink connections from 1 Gbps to 10 Gbps
- Extensive security functions for remote access, local access and network access areas
- 28-port rack-mount switch with required modular port and power supplies
- Hot-swappable port and power supply modules

Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 1216924 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | DNN125 |
| Product key | DNN511 |
| GTIN | 4063151297282 |
| Weight per piece (including packing) | 7,860 g |
| Weight per piece (excluding packing) | 9.8 g |
| Customs tariff number | 85176200 |

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Technical data

Dimensions

| | |
|--------|----------|
| Width | 486.2 mm |
| Height | 44.4 mm |
| Depth | 446.7 mm |

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 | RJ45 or SFP |

Ethernet (SFP)

| | |
|----------------------|-------------------------------|
| Connection method | SFP |
| Transmission speed | 1000/10000 Mbps (full duplex) |
| Transmission physics | Depending on the SFP module |

Output data

Digital:

| | |
|-------------|--|
| Output name | Alarm relay output: 24 V DC, 1 A maximum |
|-------------|--|

Product properties

| | |
|----------------|-----------------------|
| Product type | Switch |
| Product family | Managed Switch EP7000 |

Insulation characteristics

| | |
|----------------------|----|
| Overvoltage category | II |
| Degree of pollution | 2 |

Switch functions

| | |
|--------------------------------|---------|
| Signal contact control voltage | 24 V DC |
| Signal contact control current | 1 A |
| MAC address table | 16k |

Electrical properties

Supply

| | |
|----------------|--------------------------------------|
| Supply voltage | Based on modular power supplies used |
|----------------|--------------------------------------|

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Function

| | |
|--------------------------------|---------|
| Signal contact control voltage | 24 V DC |
| Signal contact control current | 1 A |

Connection data

Connection technology

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

Power supply

| | |
|-----------------------------------|---|
| Connection method | Screw connection |
| Conductor cross section, rigid | 0.2 mm ² ... 2.5 mm ² |
| Conductor cross section, flexible | 0.2 mm ² ... 2.5 mm ² |
| Conductor cross section AWG | 24 ... 12 |

Environmental and real-life conditions

Ambient conditions

| | |
|--|--|
| Degree of protection | IP20 |
| 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) | 10 % ... 95 % (non-condensing) |
| Vibration (operation) | in acc. with IEC 60068-2-6: 5g, 150 Hz |

Standards and regulations

| | |
|--------------------------|--------------------|
| Standard designation | Ambient conditions |
| Standards/specifications | IEC 61850-3 Ed. 2 |
| | IEEE 1613 |

Approvals

Conformity/Approvals

| | |
|-------------|--------------|
| Conformance | CE-compliant |
|-------------|--------------|

EMC data

| | |
|----------------|--|
| Noise immunity | IEC 61850-3, IEEE 1613, EN 61000-6-2: 2005 |
|----------------|--|

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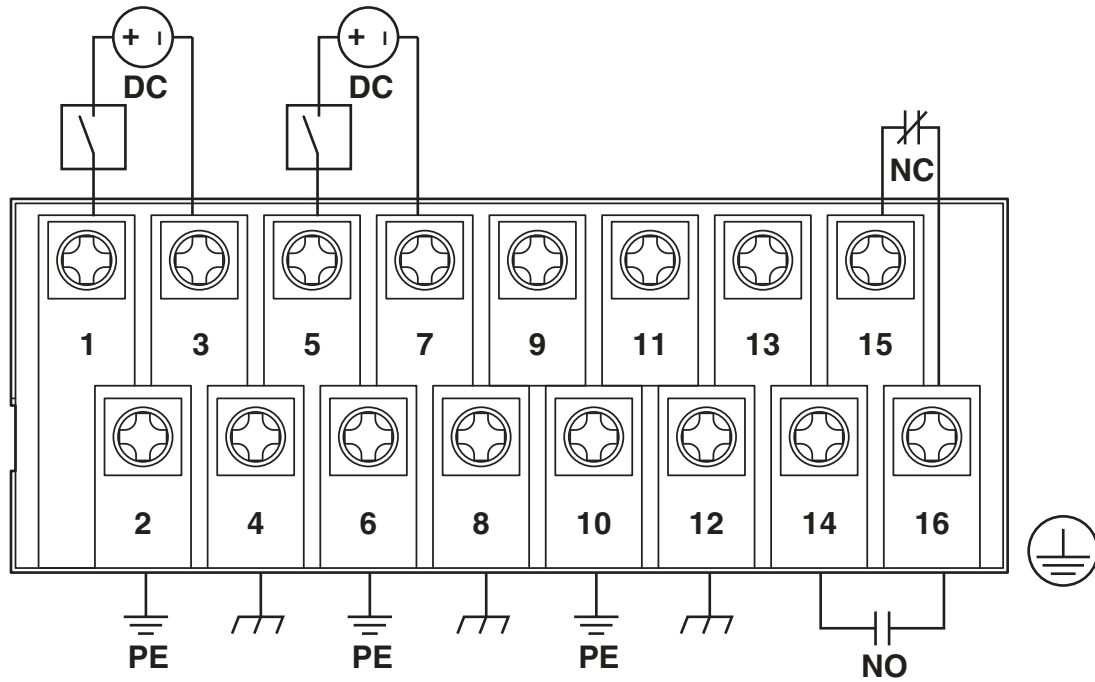


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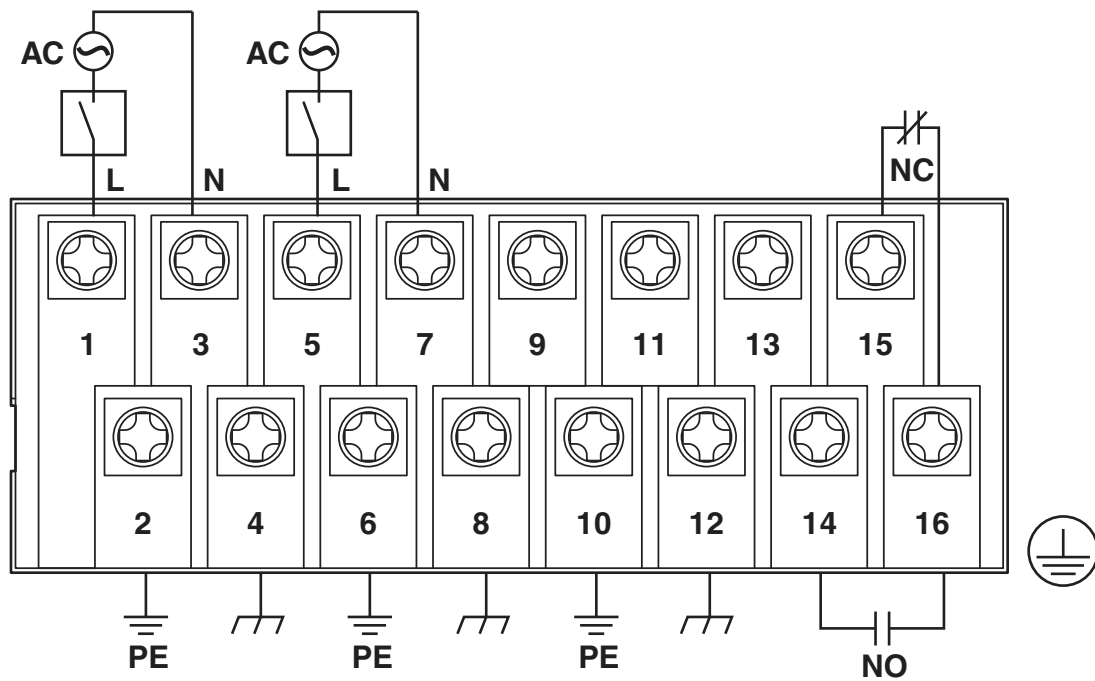
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Drawings

Connection diagram



Connection diagram



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Approvals

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ERC **EAC**
Approval ID: RU D-DE.GB09.B.00312

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Classifications

ECLASS

| | |
|-------------|----------|
| ECLASS-11.0 | 19170401 |
| ECLASS-12.0 | 19170401 |
| ECLASS-13.0 | 19170401 |

ETIM

| | |
|----------|----------|
| ETIM 9.0 | EC000734 |
|----------|----------|

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Environmental product compliance

EU RoHS

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

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.) | 1-Methyl-2-pyrrolidone (NMP)(CAS: 872-50-4) |
| | N,N-dimethylacetamide(CAS: 127-19-5) |
| | Hexahydromethylphthalic anhydride(CAS: n/a) |
| | Lead titanium zirconium oxide(CAS: 12626-81-2) |
| | Lead titanium trioxide(CAS: 12060-00-3) |
| | Orange lead (lead tetroxide)(CAS: 1314-41-6) |
| | 4,4'-isopropylidenediphenol(CAS: 80-05-7) |
| | 1,6,7,8,9,14,15,16,17,17,18,18-Dodecachloropentacyclo[12.2.1.16,9.02,13.05,10]octadeca-7,15-diene ("Dechlorane Plus"™)(CAS: n/a) |
| | Terphenyl, hydrogenated(CAS: 61788-32-7) |
| | Lead(CAS: 7439-92-1) |
| | 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one(CAS: 71868-10-5) |

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Accessories

FL SWITCH EP7400-PS-LV-C1 - Power module

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Power module. Conformal coating for harsh environments.



FL SWITCH EP7400-PS-MV-C1 - Power module

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Power module. Conformal coating for harsh environments.



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FL SWITCH EP7400-PS-HV-C1 - Power module

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Power module. Conformal coating for harsh environments.



FL SWITCH EP7400-M8GRJ45-C1 - Communication module

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Extension module, provides eight RJ45 ports at 10/100/1000 Mbps. Conformal coating for harsh environments.



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FL SWITCH EP7400-M8GSFP-C1 - Communication module

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Extension module, provides eight SFP ports at 100/1000 Mbps. Conformal coating for harsh environments.



FL SWITCH EP7400-M4TGSFP-C1 - Communication module

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Extension module, provides four SFP ports at 1/10 Gbps. Conformal coating for harsh environments.



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FL SWITCH EP7400-ABLK - Cover

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FL SWITCH EP7400-PNLMNT - Mounting panel

1380736

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The FL SWITCH EP7400-PNLMNT mounts FL SWITCH EP7... directly on a panel



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FL SFP FX - Media module

2891081

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The small form-factor plug-in module provides a fiber optic interface with a data transmission speed of 100 Mbps with a wavelength of 1310 nm (long).

FL SFP FX SM - Media module

2891082

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The small form-factor plug-in module provides a fiber optic interface with a data transmission speed of 100 Mbps with a wavelength of 1310 nm (long).

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FL SFP GT - Media module

2989420

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Gigabit SFP module for transmission up to 100 m.

FL SFP SX - Media module

2891754

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Gigabit SFP module for transmission up to 1 km with a wavelength of 850 nm.

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FL SFP SX2 - Media module

2702397

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Gigabit SFP module for transmission up to 2 km with a wavelength of 1310 nm.

FL SFP LX - Media module

2891767

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Gigabit SFP module for transmission up to 30 km with a wavelength of 1310 nm.

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FL SFP LX10-B - Media module

1025401

<https://www.phoenixcontact.com/gb/products/1025401>



Gigabit SFP module for transmission up to 10 km with a wavelength of 1310 nm.

FL SFP-10G-SR - Media module

1145046

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10 Gigabit SFP module for transmission up to 300 m with a wavelength of 850 nm.

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