

# FL SWITCH EP7428R-L3F1 - Industrial Ethernet Switch



1144353

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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



## Product description

Developed according to IEC 61850-3 (Ambient conditions)

## Your advantages

- Network structure according to IEC 61850
- IEEE 1613
- 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
- IEEE 1588 v2 precision timing support

## Commercial data

Item number	1144353
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DN36
Product key	DNN511
GTIN	4063151129897
Weight per piece (including packing)	7,846 g
Weight per piece (excluding packing)	6,276 g
Customs tariff number	85176200
Country of origin	US

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## Technical data

### Dimensions

Width	486.2 mm
Height	44.4 mm
Depth	446.7 mm

### Notes

Note on application

Note on application	Only for industrial use
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### Material specifications

Color (Housing)	anthracite gray (RAL 7016)
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### Mounting

Mounting type	Rack mounting (with holder)
Holder system	19" rack

### Interfaces

Ethernet (combo)

Connection method	SFP/RJ45
Note on the connection method	Auto negotiation and autocrossing
Transmission speed	100/1000 Mbps 10/100/1000 Mbps
Transmission physics	Copper
Transmission length	100 m (per segment)
No. of channels	24 (Combo 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: 24 V DC, 1 A maximum
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### Product properties

Product type	Switch
Product family	Managed Switch EP7000

Insulation characteristics

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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

Maximum power dissipation for nominal condition	60 W
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## Supply

Supply voltage	Based on modular power supplies used
Power supply connection	From FL SWITCH EP7400-PS...

## Function

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

## Connection data

### Power supply

Connection method	Screw connection
Conductor cross-section, rigid	0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross-section, flexible	0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
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
	IEEE 1613

## Approvals

### Conformity/Approvals

Conformance	CE-compliant
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## EMC data

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Noise immunity

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

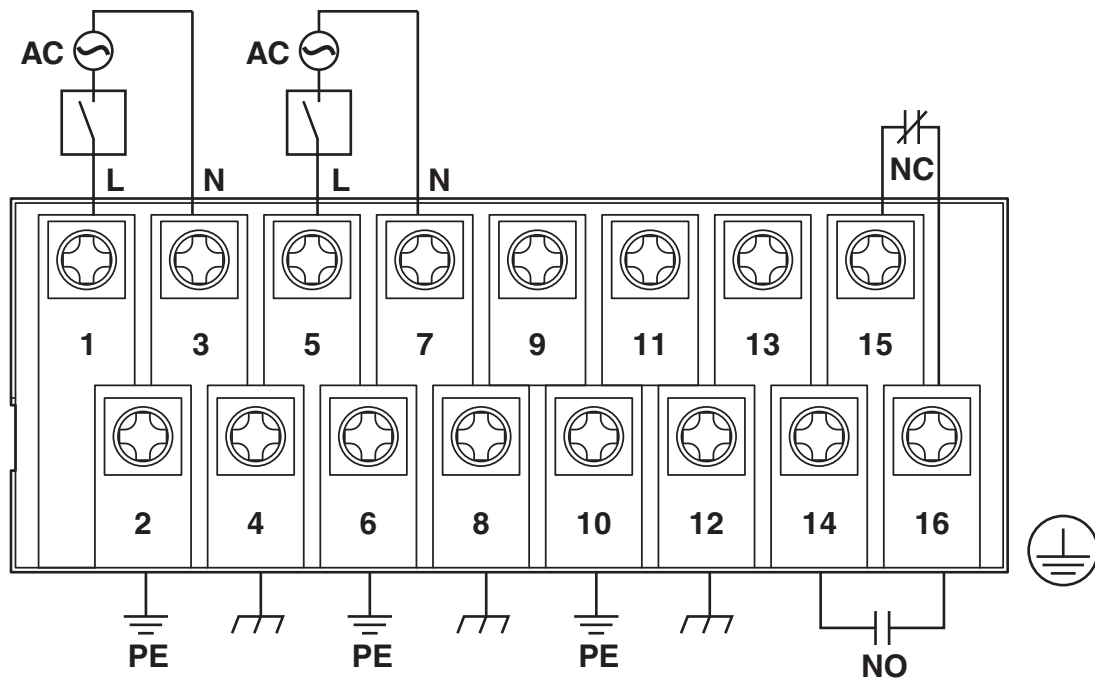
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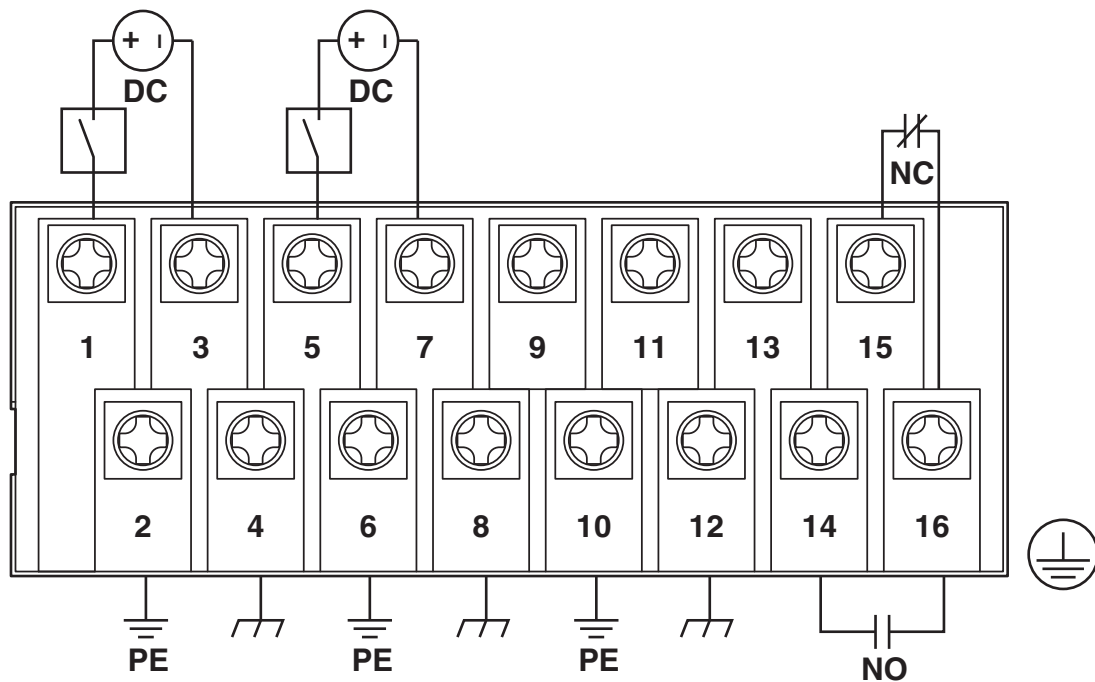
<https://www.phoenixcontact.com/us/products/1144353>

## Drawings

Connection diagram



Connection diagram



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## Classifications

### ECLASS

ECLASS-13.0	19170401
ECLASS-15.0	19170401

### ETIM

ETIM 10.0	EC000734
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### UNSPSC

UNSPSC 21.0	43222600
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(c), 7(a), 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)
	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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