

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



1732656

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

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Managed Switch EP5000 series, 16 RJ45 ports 10/100/1000 Mbps, 4 SFP ports 1000/10,000 Mbps, 8 SFP ports 100/1000 Mbps, degree of protection: IP40, Ambient temperature (operation): -40 °C ... 85 °C, Supply voltage range: 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	TW

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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
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### Material specifications

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

### Mounting

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

### 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
MTBF	70.1 Years (Telcordia standard, 25 °C temperature, 50% stress)
	5.3 Years (MIL-HDBK-217F standard, temperature 25°C)
	221.3 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

## Electrical properties

Local diagnostics	US1, US2 Supply voltage Green LED
	Alarm Alarm signal LED red
Maximum power dissipation for nominal condition	50 W (max.)

## 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

### Power supply

Connection method	Screw connection
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## 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
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Standards/specifications	IEC 61850-3
	IEEE 1613

## Approvals

### Conformity/Approvals

Conformance	CE-compliant
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## EMC data

Noise immunity	IEC 61850-3, IEEE 1613
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## 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/1732656>



**cULus Listed**

Approval ID: E140403 -20210406

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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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