

# FL SWITCH 1104-4POE REG - Industrial Ethernet Switch



1473642

<https://www.phoenixcontact.com/pc/products/1473642>

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Unmanaged Switch 1000 REG series, 4 RJ45 ports 10/100/1000 Mbps, 4 RJ45 PoE ports, degree of protection: IP20, Ambient temperature (operation): 5 °C ... 50 °C, Supply voltage range: 48 V DC ... 55 V DC, REG design in accordance with DIN 43880

## Product description

8-port Ethernet switch with four PoE ports according to 802.3at with an output power of up to 30 W for building installation in REG format. With four RJ45 ports both above and below the touch protection cover. With four PoE ports according to 802.3 at with an output power of up to 30 W

## Your advantages

- REG design in accordance with DIN 43880
- POE status LED per port
- Auto negotiation
- Automatic detection of IEEE 802.3at or 802.3af powered devices
- Autocrossing

## Commercial data

Item number	1473642
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	DNN412
GTIN	4063151884864
Weight per piece (including packing)	287 g
Weight per piece (excluding packing)	208 g
Customs tariff number	85176200
Country of origin	TW

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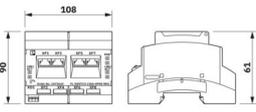


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## Technical data

### Dimensions

Dimensional drawing	
Width	108 mm
Height	90 mm
Depth	62 mm
Note on dimensions	6 HP

### Notes

General	Support by phone or on-site (fee is charged)
Note on application	
Note on application	Only for industrial use

### Material specifications

Housing material	PC
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### Mounting

Mounting type	DIN rail mounting
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### Interfaces

#### Ethernet

Connection method	RJ45
Note on the connection method	Auto negotiation and autocrossing
Transmission speed	10/100/1000 Mbps
Transmission physics	Ethernet RJ45
Transmission length	100 m (per segment)
Signal LEDs	LNK/ACT, POE
No. of channels	4 (RJ45 ports)
Input buffer	1.5 Mbits
Output buffer	1.5 Mbits

#### Ethernet (PoE)

Connection method	RJ45
Transmission length	100 m (Between transmitter / receiver)
Signal LEDs	LNK/ACT, POE
No. of channels	4 (RJ45 PoE ports)
Transmission speed	10/100/1000 Mbps
No. of channels	4 (RJ45 PoE ports)

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## Product properties

Product family	Unmanaged Switch 1000 REG
Type	Stand-alone
MTTF	802.8 Years (SN 29500 standard, temperature 25°C, operating cycle 21%)
	351.4 Years (SN 29500 standard, temperature 40°C, operating cycle 34.25%)
	94.1 Years (SN 29500 standard, temperature: 50°C, operating cycle: 100%)
Special properties	REG design in accordance with DIN 43880
Signal delay	Store and Forward mode, 10/100 Mbps, depending on the frame size

## Switch functions

Basic functions	Unmanaged switch
	Autonegotiation
	Store and Forward switching mode
Status and diagnostic indicators	LEDs: U <sub>S</sub> (voltage supply), Link/Activity and PoE per Ethernet port

## Security functions

Basic functions	Unmanaged switch
	Autonegotiation
	Store and Forward switching mode

## Electrical properties

Local diagnostics	US Supply voltage Green LED
	PoE PoE detection Yellow LED
	LNK/ACT Link status/data transmission Green LED
Maximum power dissipation for nominal condition	7.6 W
Test voltage	500 V DC
Test section	Between the Ethernet ports 1500 V AC 1 min
	24 V supply (US) / FE 500 V DC 1 min
Transmission medium	Copper

## Supply

Supply voltage (DC)	54 V DC (Recommended)
	48 V DC
Supply voltage range	48 V DC ... 55 V DC
Max. current consumption	2.5 A (at U <sub>S</sub> = 52 V DC, data transmission 1 Gbps)

## Connection data

Connection method	Spring-cage connection
Conductor cross-section, rigid	0.2 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Conductor cross-section, flexible	0.5 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>

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## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	5 °C ... 50 °C
Ambient temperature (storage/transport)	-40 °C ... 70 °C
Altitude	max. 2000 m
Permissible humidity (operation)	10 % ... 95 % (non-condensing)
Permissible humidity (storage/transport)	5 % ... 95 % (non-condensing)
Air pressure (operation)	86 hPa ... 108 kPa (1500 m above sea level)
Air pressure (storage/transport)	66 hPa ... 108 kPa (3500 m above sea level)

## EMC data

Conformance with EMC directives	EN 61000-6-2 EN 61000-4-2 (ESD) Criterion B
	EN 61000-6-2 EN 61000-4-3 (electromagnetic fields) Criterion A
	EN 61000-6-2 EN 61000-4-4 (EFT burst) Criterion B
	EN 61000-6-2 EN 61000-4-5 (surge) Criterion B
	EN 61000-6-2 EN 61000-4-6 (line noise immunity) Criterion A
	EN 61000-6-2 EN 61000-4-8 (electromagnetic fields) Class A
Noise immunity	EN 61000-6-3

### Noise emission

Standards/regulations	EN 61000-6-3
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## System properties

### Functionality

Basic functions	Unmanaged switch
	Autonegotiation
	Store and Forward switching mode

## Signaling

Status display	LEDs: $U_S$ (voltage supply), Link/Activity and PoE per Ethernet port
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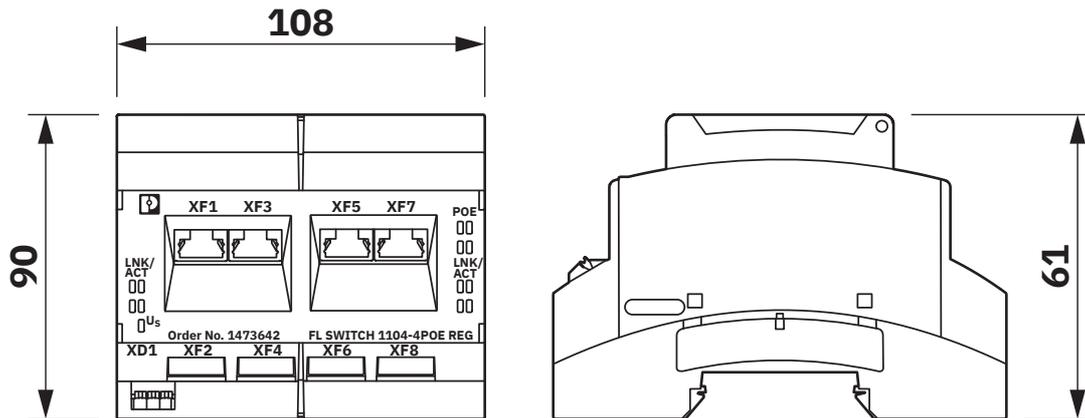


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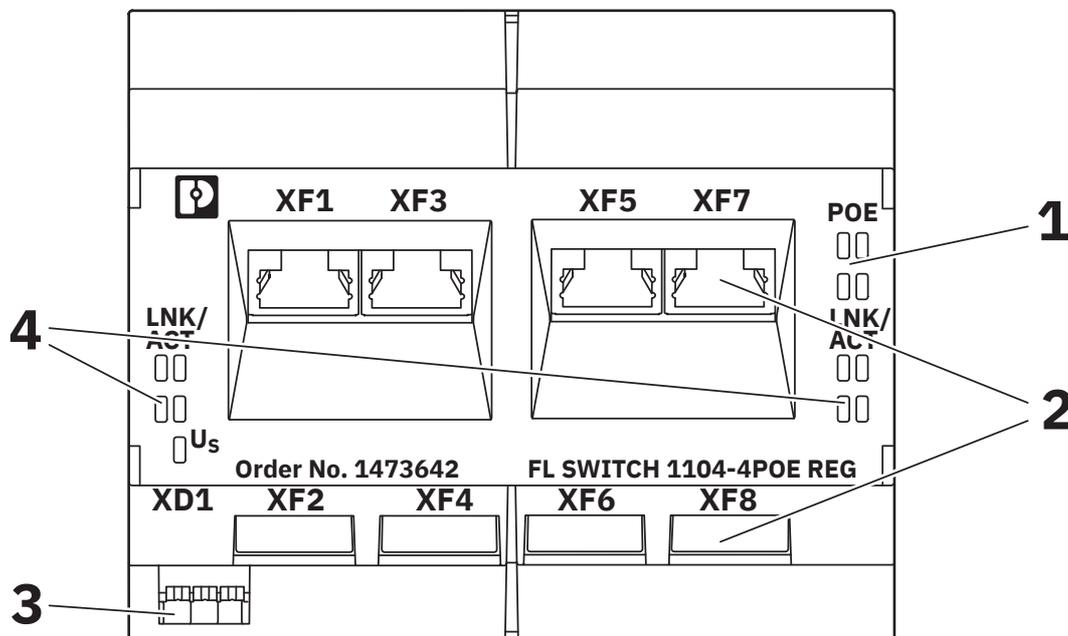
## Drawings

Dimensional drawing



Dimensional drawing

Schematic diagram



## Connection elements

- 1: LED (PoE)
- 2: Ports (PoE)
- 3: Power supply
- 4: LED (Link/Activity)

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## Classifications

### ECLASS

ECLASS-13.0	19170402
ECLASS-15.0	19170402

### 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	15(a), 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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## Accessories

### STEP3-PS/1AC/48DC/2.5/PT - Power supply

1285035

<https://www.phoenixcontact.com/pc/products/1285035>



Primary-switched power supply unit STEP POWER, Push-in connection, DIN rail or direct mounting, input: 1-phase, output: 48 V DC / 2.5 A, adjustable from 48 V DC ... 56 V DC, PoE application up to 120 W

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### DT-LAN-CAT.6+ - Surge protection device

2881007

<https://www.phoenixcontact.com/pc/products/2881007>



Surge protection in accordance with Class E<sub>A</sub> (CAT6<sub>A</sub>), for Gigabit Ethernet (up to 10 Gbps), token ring, FDDI/CDDI, ISDN, and DS1. Suitable for Power over Ethernet (PoE++ / 4PPoE) "Mode A" and "Mode B". RJ45 attachment plug with separate grounding cable and ground connection snap-on foot for NS 35 DIN rails.

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## FL CAT5 PATCH 0,5 - Patch cable

2832263

<https://www.phoenixcontact.com/pc/products/2832263>

Patch cable, CAT5, assembled, 0,5 m



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## FL CAT5 PATCH 1,0 - Patch cable

2832276

<https://www.phoenixcontact.com/pc/products/2832276>

Patch cable, CAT5, assembled, 1 m



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## FL CAT5 PATCH 2,0 - Patch cable

2832289

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Patch cable, CAT5, assembled, 2 m



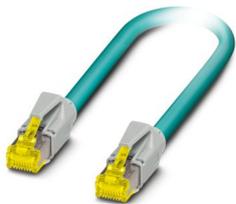
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## NBC-R4AC-R4AC-IE8A/.../... - Patch cable

1411854

<https://www.phoenixcontact.com/pc/products/1411854>

Patch cable, degree of protection: IP20, number of positions: 8, 10 Gbps, CAT6<sub>A</sub>, cable outlet: straight, Ethernet



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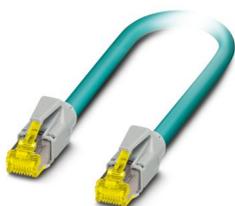
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## NBC-R4AC/10G-R4AC/10G-94F/2,0 - Patch cable

1408360

<https://www.phoenixcontact.com/pc/products/1408360>



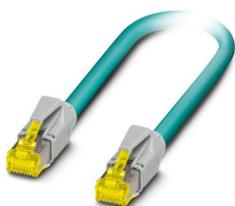
Patch cable, CAT6<sub>A</sub>, 4-pair, shielded, connection not crossed (line), assembled at both ends with RJ45/IP20 connectors, outer sheath material: PUR, length: 2.0 m

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## NBC-R4AC/10G-R4AC/10G-94F/3,0 - Patch cable

1408365

<https://www.phoenixcontact.com/pc/products/1408365>



Patch cable, CAT6<sub>A</sub>, 4-pair, shielded, connection not crossed (line), assembled at both ends with RJ45/IP20 connectors, outer sheath material: PUR, length: 3.0 m

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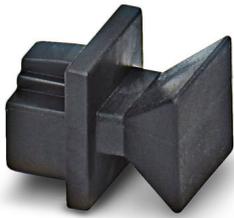
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## FL RJ45 PROTECT CAP - Dust protection

2832991

<https://www.phoenixcontact.com/pc/products/2832991>



Dust protection caps for RJ45 socket

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