

# FL SWITCH 1701 7POE - Industrial Ethernet Switch



1119230

<https://www.phoenixcontact.com/pc/products/1119230>

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PoE+ Ethernet switch, 8 Ethernet ports in M12 format, automatic detection of the data transmission speed of 10/100/1000 Mbps, jumbo frames up to 9600 bytes, coupling of network segments with different transmission speeds, autocrossing function, degree of protection IP67

## Your advantages

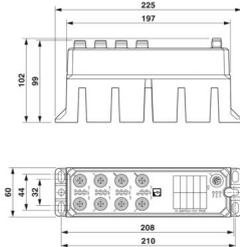
- Gigabit support
- Robust IP67 housing
- Easy panel mounting
- PoE+ supply to 7 ports
- Jumbo frames with up to 9600 bytes
- Metal housing

## Commercial data

Item number	1119230
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	DNN114
GTIN	4063151048723
Weight per piece (including packing)	1.824 kg
Weight per piece (excluding packing)	1.605 kg
Customs tariff number	85176200
Country of origin	DE

## Technical data

### Dimensions

Dimensional drawing	
Width	60 mm
Height	226 mm
Depth	102 mm
Drill hole spacing	210 mm

### Notes

General	NOTE: Meet noise immunity requirements Connect FE using a mounting screw when mounting on a conductive surface. When mounting on a non-conductive surface, FE is connected using the mounting screw via a cable lug.
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### Material specifications

Color	anthracite
Material base plate	Die-cast aluminum, corrosion-resistant
Housing material	Zinc die-cast, surface bronzed and nickel-plated
Housing surface material	nickel-plated

### Mounting

Mounting type	Panel mounting
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### Interfaces

#### Ethernet

Number of interfaces	1
Connection method	M12 connector, X-coded
Note on the connection method	Auto negotiation and autocrossing
Transmission speed	10/100/1000 Mbps
Transmission physics	Copper
Transmission length	100 m (per segment)
Signal LEDs	Data receive, link status
No. of channels	1 (M12 ports)

#### Ethernet (PoE)

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Connection method	M12 connector, 8-pos.
Note on the connection method	X-coded
Transmission speed	10/100/1000 Mbps
Transmission physics	Copper
Transmission length	100 m (per segment)
Signal LEDs	Data receive, link status, PoE
No. of channels	7 (RJ45 PoE ports)

## Product properties

Product family	Unmanaged PoE Switch 1000
Type	Stand-alone
MTTF	249.43 Years (SN 29500 standard, temperature 25°C, operating cycle 21%)
	107.99 Years (SN 29500 standard, temperature 40°C, operating cycle 34.25%)
	30.14 Years (SN 29500 standard, temperature 70°C, operating cycle 100%)
Signal delay	≥ 1.9 μs (Store-and-Forward mode, 10/100/1000 Mbps, depending on the frame size)

## Insulation characteristics

Protection class	III (IEC 61140, EN 61140, VDE 0140-1)
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## Switch functions

Basic functions	PSE, complies with IEEE 802.3af/at/bt
	Autonegotiation
	Store and Forward switching mode
PROFINET conformance class	Conformance Class A
MAC address table	16 k
Status and diagnostic indicators	LEDs: US1, US2 (power supply), Fail (alarm contact), 3 LEDs per Ethernet port (Link, Activity, and PoE Status)
Additional functions	Autonegotiation

## Security functions

Basic functions	PSE, complies with IEEE 802.3af/at/bt
	Autonegotiation
	Store and Forward switching mode

## Electrical properties

Power consumption	168 W (Vin = Min, Tamb = Max, POE = 150 W, 100% data traffic on all connected ports)
Local diagnostics	US Supply voltage US Green LED
Maximum power dissipation for nominal condition	18 W (Vin = Min, Tamb = Max, POE = 150 W, 100% data traffic on all connected ports)
Test section	24 V supply / functional ground 500 V DC 1 min
	Ethernet interface/all other potentials 2.25 kV DC 1 min
Transmission medium	Copper

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## Supply

Supply voltage (DC)	24 V DC (M12 connector)
Supply voltage range	18.7 V DC ... 30.5 V DC
Power supply connection	via M12 connector, L-coded
Residual ripple	3.6 V <sub>PP</sub>
Max. current consumption	10 A (Maximum, nominal load)
Typical current consumption	300 mA (at U <sub>S</sub> = 24 V DC and 25 °C ambient temperature)

## Supply: Module electronics

Supply voltage	24 V DC
Supply voltage range	18.7 V DC ... 30.5 V DC (including ripple)

## Connection data

### Connection technology

Connection name	Supply voltage
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### Supply voltage

Connection method	M12 connector, L-coded
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## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP65
	IP66
	IP67
	IP68
Ambient temperature (operation)	-40 °C ... 50 °C (observe derating)
Ambient temperature (storage/transport)	-40 °C ... 70 °C
Permissible humidity (operation)	10 % ... 95 %
Permissible humidity (storage/transport)	10 % ... 95 % (non-condensing)
Shock (operation)	30g (EN 60068-2-27)
Vibration (operation)	in acc. with IEC 60068-2-6: 5g, 150 Hz
Air pressure (operation)	86 kPa ... 108 kPa (2000 m above mean sea level)
Air pressure (storage/transport)	66 kPa ... 108 kPa (3500 m above sea level)

## EMC data

Electromagnetic compatibility	Conformance with EMC Directive 2014/30/EU
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 A
	EN 61000-6-2 EN 61000-4-5 (surge) Criterion A
	EN 61000-6-2 EN 61000-4-6 (line noise immunity) Criterion A
	EN 61000-6-4 (conducted interference) Class A
Noise immunity	EN 61000-6-4 Class A
	EN 61000-6-2:2019

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## Noise emission

Standards/regulations	EN_61000-6-4:2019
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## System properties

### Functionality

Basic functions	PSE, complies with IEEE 802.3af/at/bt
	Autonegotiation
	Store and Forward switching mode

## Signaling

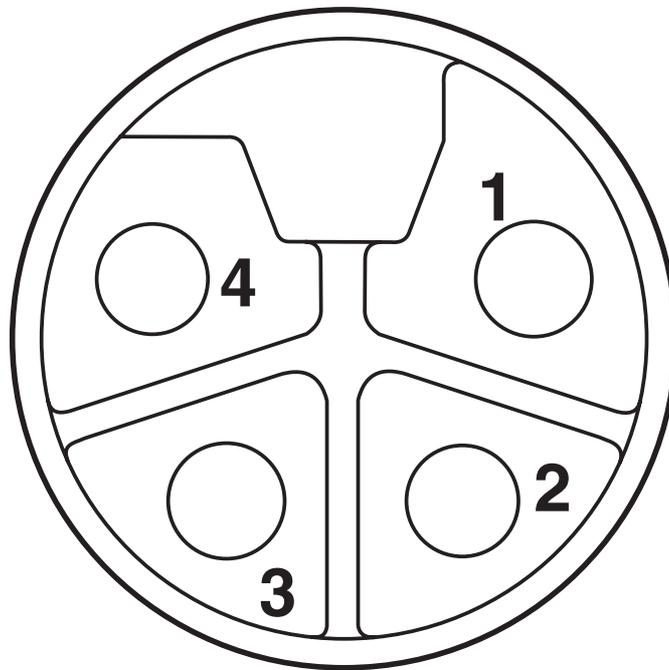
Status display	LEDs: US1, US2 (power supply), Fail (alarm contact), 3 LEDs per Ethernet port (Link, Activity, and PoE Status)
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Schematic diagram

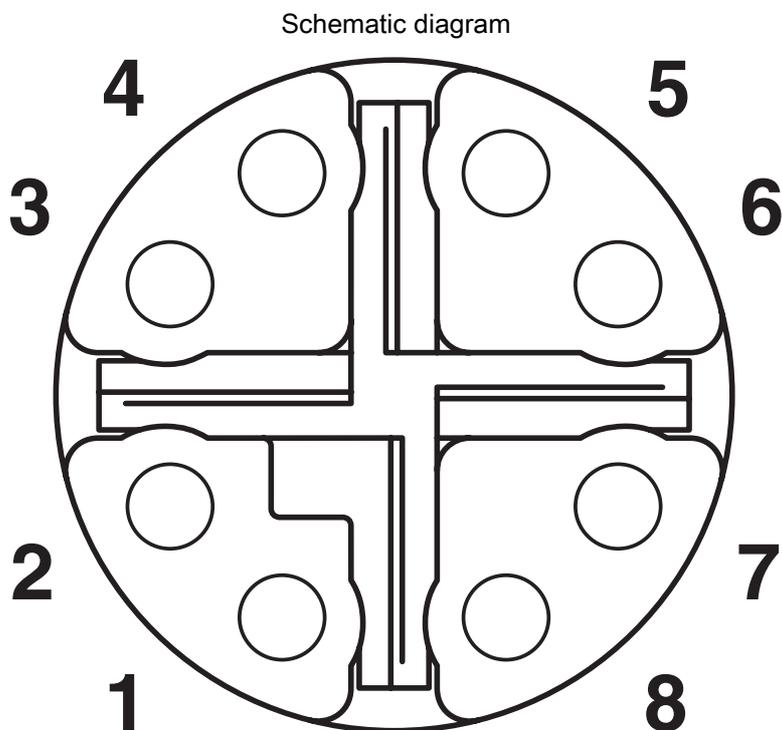


## Connection of the supply voltage

- PIN 1 Us1
- PIN 2 GND
- Pin 3 GND
- Pin 4 Us2
- Pin 5 N.C.

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#### Assignment of the LAN female connector

- Pin 1 DB+
- Pin 2 DB-
- Pin 3 DA+
- Pin 4 DA-
- Pin 5 DC+
- Pin 6 DC-
- Pin 7 DD-
- Pin 8 DD+

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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	43222612
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	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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## Accessories

### NBC-M12MRX/1,0-94F/M12MRX - Network cable

1080720

<https://www.phoenixcontact.com/pc/products/1080720>



Network cable, Ethernet CAT6<sub>A</sub> (10 Gbps) CAT6<sub>A</sub> (10 Gbps), 8-position, PUR halogen-free, water blue RAL 5021, shielded (Advanced Shielding Technology), Plug angled M12, coding: X / IP67, on Plug angled M12, coding: X / IP67, cable length: 1 m

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### NBC-M12MRX/2,0-94F/M12MRX - Network cable

1080721

<https://www.phoenixcontact.com/pc/products/1080721>



Network cable, Ethernet CAT6<sub>A</sub> (10 Gbps) CAT6<sub>A</sub> (10 Gbps), 8-position, PUR halogen-free, water blue RAL 5021, shielded (Advanced Shielding Technology), Plug angled M12, coding: X / IP67, on Plug angled M12, coding: X / IP67, cable length: 2 m

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## NBC-M12MSX/ 1,0-94C/M12MSX - Network cable

1125028

<https://www.phoenixcontact.com/pc/products/1125028>



Network cable, Ethernet CAT5 (1 Gbps) CAT5 (1 Gbps), 8-position, PUR halogen-free, water blue RAL 5021, shielded (Advanced Shielding Technology), Plug straight M12, coding: X / IP67, on Plug straight M12, coding: X / IP67, cable length: 1 m

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## NBC-M12MSX/1,0-94F/M12MRX - Network cable

1080724

<https://www.phoenixcontact.com/pc/products/1080724>



Network cable, Ethernet CAT6<sub>A</sub> (10 Gbps) CAT6<sub>A</sub> (10 Gbps), 8-position, PUR halogen-free, water blue RAL 5021, shielded (Advanced Shielding Technology), Plug straight M12, coding: X / IP67, on Plug angled M12, coding: X / IP67, cable length: 1 m

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## NBC-M12MSX/2,0-94F/M12MRX - Network cable

1080725

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Network cable, Ethernet CAT6<sub>A</sub> (10 Gbps) CAT6<sub>A</sub> (10 Gbps), 8-position, PUR halogen-free, water blue RAL 5021, shielded (Advanced Shielding Technology), Plug straight M12, coding: X / IP67, on Plug angled M12, coding: X / IP67, cable length: 2 m

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## NBC-M12MSX/5,0-94F/M12MRX - Network cable

1080726

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Network cable, Ethernet CAT6<sub>A</sub> (10 Gbps) CAT6<sub>A</sub> (10 Gbps), 8-position, PUR halogen-free, water blue RAL 5021, shielded (Advanced Shielding Technology), Plug straight M12, coding: X / IP67, on Plug angled M12, coding: X / IP67, cable length: 5 m

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## SACC-PO12MSX-8CT-CL SH - Data connector

1021783

<https://www.phoenixcontact.com/pc/products/1021783>



Data connector, Ethernet CAT6<sub>A</sub> (10 Gbps), PROFINET CAT6<sub>A</sub> (10 Gbps), 8-position, shielded, Plug straight M12 Push-pull external locking, coding: X, Crimp connection, knurl material: PA 6.6, external cable diameter 6.5 mm ... 10 mm, without crimp contacts

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## PROT-M12 - Screw plug

1680539

<https://www.phoenixcontact.com/pc/products/1680539>



An M12 screw plug for the unoccupied M12 sockets of the sensor/actuator cable, boxes and flush-type connectors

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## SACC-M12FSL-4FEPL-CL M - Power connector

1646350

<https://www.phoenixcontact.com/pc/products/1646350>



Power connector, Power, 5-position, unshielded, Socket straight M12, coding: L, Push-lock spring connection, knurl material: Zinc die-cast, nickel-plated, external cable diameter 8 mm ... 13 mm, Contact 5 leading

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## SACC-M12FSL-4CT-CM SH - Power connector

1027480

<https://www.phoenixcontact.com/pc/products/1027480>



Power connector, Power, 4-position, shielded, Socket straight M12, coding: L, Crimp connection, knurl material: Zinc die-cast, tin-plated, external cable diameter 8 mm ... 13 mm, without crimp contacts

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