

FL SWITCH 1701 7POE - Industrial Ethernet Switch



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

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



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
Sales key	DN19
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

FL SWITCH 1701 7POE - Industrial Ethernet Switch

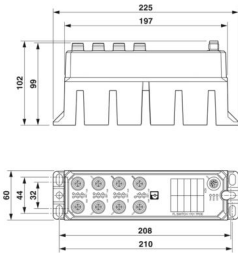


1119230

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

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.
---------	---

Material specifications

Color	nickel color
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
---------------	----------------

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)

FL SWITCH 1701 7POE - Industrial Ethernet Switch



1119230

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

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 type	Switch
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)
------------------	---------------------------------------

Switch functions

Basic functions	PSE, complies with IEEE 802.3af/at/bt
	Autonegotiation
	Store and Forward switching mode
	10/100/1000 Mbps
	Jumbo frames with up to 9600 bytes
	8 priority classes
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
	10/100/1000 Mbps
	Jumbo frames with up to 9600 bytes
	8 priority classes

Electrical properties

FL SWITCH 1701 7POE - Industrial Ethernet Switch



1119230

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

Power consumption	168 W (V _{in} = Min, T _{amb} = 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 (V _{in} = Min, T _{amb} = 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

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 _{PP}
Max. current consumption	10 A (Maximum, nominal load)
Typical current consumption	300 mA (at U _S = 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

Supply voltage

Connection method	M12 connector, L-coded
-------------------	------------------------

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

FL SWITCH 1701 7POE - Industrial Ethernet Switch



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

	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
	EN 61000-6-4 Class A
Noise immunity	EN 61000-6-2:2019

Noise emission

Standards/regulations	EN_61000-6-4:2019
-----------------------	-------------------

System properties

Functionality

Basic functions	PSE, complies with IEEE 802.3af/at/bt
	Autonegotiation
	Store and Forward switching mode
	10/100/1000 Mbps
	Jumbo frames with up to 9600 bytes
	8 priority classes

Signaling

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

FL SWITCH 1701 7POE - Industrial Ethernet Switch

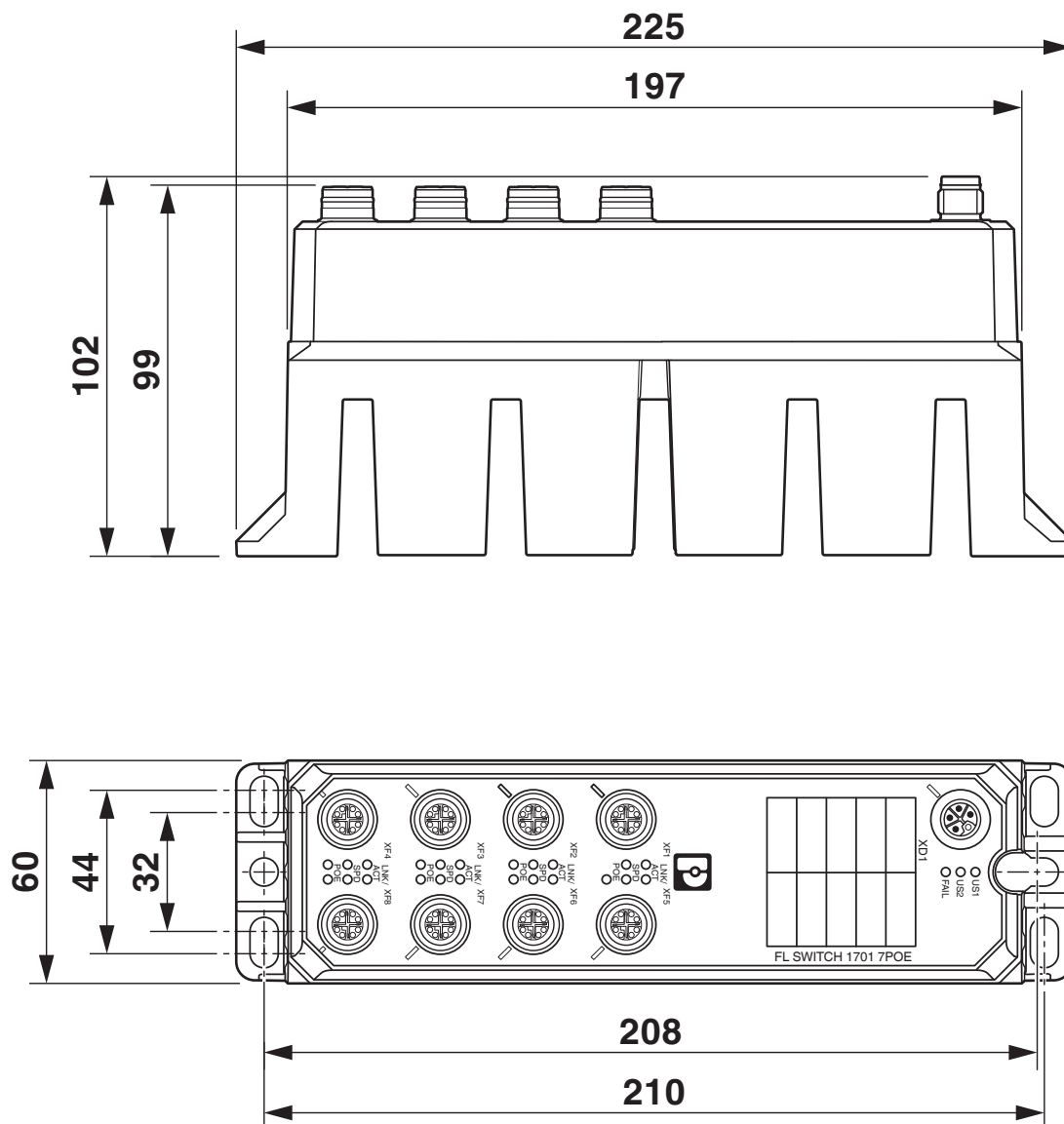


1119230

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

Drawings

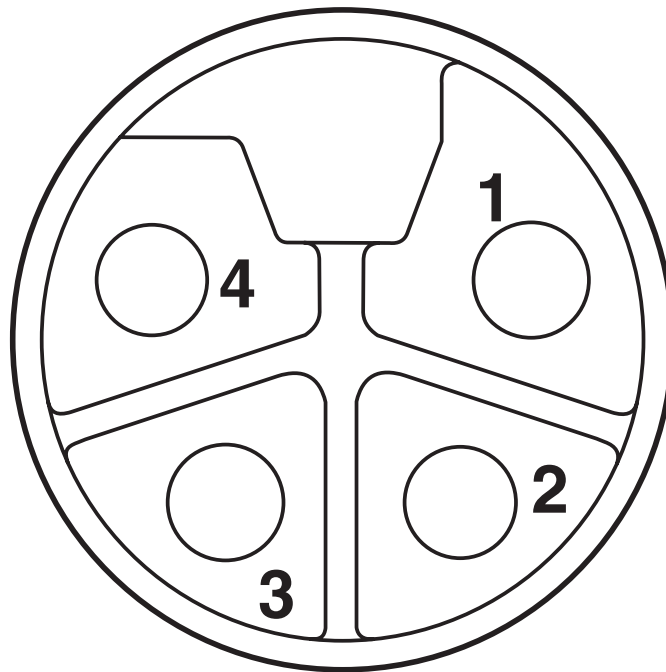
Dimensional drawing



1119230

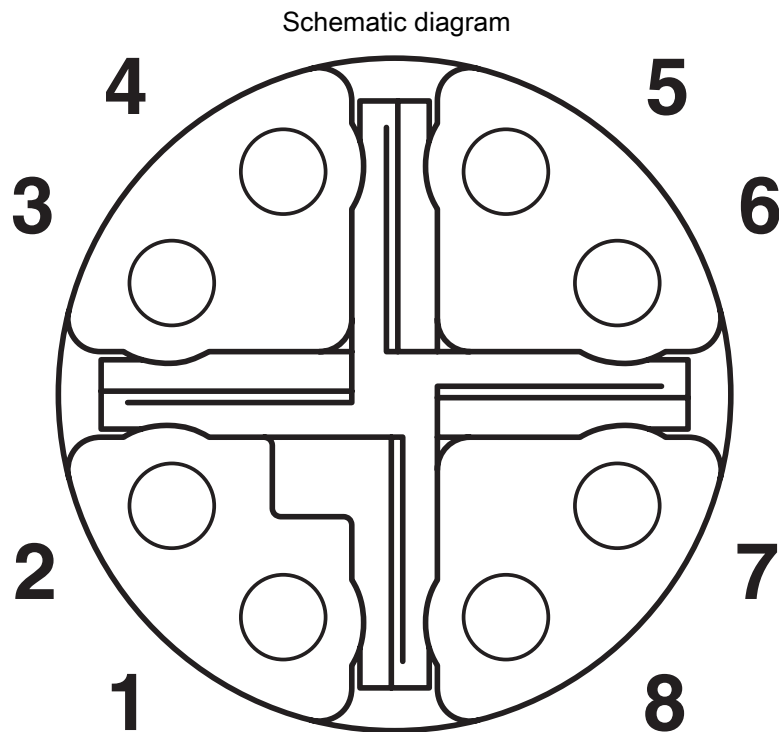
<https://www.phoenixcontact.com/us/products/1119230>

Schematic diagram



Connection of the supply voltage

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



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+

FL SWITCH 1701 7POE - Industrial Ethernet Switch



1119230

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

Classifications

ECLASS

ECLASS-13.0	19170402
ECLASS-15.0	19170402

ETIM

ETIM 10.0	EC000734
-----------	----------

UNSPSC

UNSPSC 21.0	43222612
-------------	----------

FL SWITCH 1701 7POE - Industrial Ethernet Switch



1119230

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

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)
-------------------------------------	----------------------

Phoenix Contact 2026 © - all rights reserved
<https://www.phoenixcontact.com>

Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com