

# FL SWITCH 4TX/FX - Industrial Ethernet Switch



2832810

<https://www.phoenixcontact.com/us/products/2832810>

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Ethernet Switch, 4 TP-RJ45 ports 10/100 Mbps and 1 FO port, 100 Mbps full duplex in SC-D format, automatic detection of data transmission speed of 10 or 100 Mbps (RJ45), autocrossing function

## Commercial data

Item number	2832810
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	DN19
Product key	DNN111
GTIN	4017918911744
Weight per piece (including packing)	307 g
Weight per piece (excluding packing)	307 g
Customs tariff number	84718000
Country of origin	DE

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## Technical data

### Dimensions

Width	45 mm
Height	99 mm
Depth	112 mm

### Material specifications

Color	green
Housing material	PA 6.6

### Mounting

Mounting type	DIN rail mounting
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### Interfaces

#### Ethernet (RJ45)

Connection method	4 ports 10/100BaseT(X), auto negotiation and autocrossing
Transmission speed	10/100 Mbps (RJ45)
Transmission physics	Ethernet in RJ45 twisted pair
Transmission length	100 m (per segment)
Signal LEDs	Data receive, link status
No. of channels	4

#### Ethernet FO

Connection method	SC duplex
Transmission speed	100 Mbps
Transmission physics	Ethernet 100Base FX in SC-D
Transmission length	6400 m (fiberglass with F-G 50/125 0,7 F 1000) 2800 m (fiberglass with F-G 50/125 1,6 F 800) 10000 m (fiberglass with F-G 62.5/125 0,7 F 1000) 3000 m (fiberglass with F-G 62,5/125 2,6 F 1000)
Wavelength	1300 nm
Signal LEDs	Data receive, link status

#### Potential-free signaling contact

Connection method	Plug-in/screw connection via COMBICON
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### Product properties

Product type	Switch
Type	Stand-alone

#### Insulation characteristics

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

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Basic functions	Unmanaged switch/full duplex, complies with IEEE 802.3, store and forward switching mode
Signal contact control voltage	24 V DC (typical)
Signal contact control current	100 mA (typical)
Status and diagnostic indicators	LEDs: U <sub>S1</sub> , U <sub>S2</sub> (redundant voltage supply), link and activity per port
Additional functions	Autonegotiation

## Security functions

Basic functions	Unmanaged switch/full duplex, complies with IEEE 802.3, store and forward switching mode
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## Electrical properties

Power consumption	typ. 4.3 W
Local diagnostics	US1, US2 Supply voltage US1, US2 Green LED
	One LED per port Link active Green LED
	One LED per port Telegrams received Yellow LED
Maximum power dissipation for nominal condition	4.3 W
Test section	500 V DC 1 min
Transmission medium	Copper
	FO

## Supply

Supply voltage	24 V DC
Supply voltage range	18.5 V DC ... 30.2 V DC
Power supply connection	Via COMBICON, max. conductor cross-section 2.5 mm <sup>2</sup>
Residual ripple	3.6 V <sub>PP</sub> (within the permitted voltage range)
Typical current consumption	180 mA (to U <sub>S</sub> )

## Function

Signal contact control voltage	24 V DC (typical)
Signal contact control current	100 mA (typical)

## Connection data

Connection method	RJ45, shielded or SC-D
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## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	0 °C ... 55 °C (non-condensing)
Ambient temperature (storage/transport)	-20 °C ... 70 °C
Permissible humidity (operation)	30 % ... 95 % (non-condensing)
Permissible humidity (storage/transport)	30 % ... 95 % (non-condensing)
Vibration (operation)	in acc. with IEC 60068-2-6: 5g, 150 Hz
Air pressure (operation)	86 kPa ... 108 kPa (1500 m above sea level)
Air pressure (storage/transport)	66 kPa ... 108 kPa (3500 m above sea level)

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Resistance to gases that may endanger the functions, in acc. with DIN 40046-36, DIN 40046-37	Sulfur dioxide (SO <sub>2</sub> ) 10 ±0.3 cm <sup>3</sup> /m <sup>3</sup> , hydrogen sulfide (H <sub>2</sub> S) 1 ±0.3 cm <sup>3</sup> /m <sup>3</sup> , at 25°C and 75% humidity and exposure of four days
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## Standards and regulations

Free from substances that could impair the application of coating	In acc. with VW specification
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## EMC data

Electromagnetic compatibility	Conformance with EMC directive 89/336/EC
Conformance with EMC directives	IEC 61000-6-2 IEC 61000-4-2 (ESD) Criterion B
	IEC 61000-6-2 IEC 61000-4-3 (immunity to radiated interference) Criterion A
	IEC 61000-6-2 IEC 61000-4-4 (burst) Criterion A
	IEC 61000-6-2 IEC 61000-4-5 (surge) Criterion B
	IEC 61000-6-2 IEC 61000-4-6 (immunity to conducted interference) Criterion A
	IEC 61000-6-2 IEC 61000-4-8 (immunity to magnetic fields) Criterion A
Noise immunity	IEC 61000-6-2 EN 55022 (emitted interference) Criterion A
	EN 61000-6-2:2005

## Noise emission

Standards/regulations	EN 61000-6-4
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## System properties

### Functionality

Basic functions	Unmanaged switch/full duplex, complies with IEEE 802.3, store and forward switching mode
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## Signaling

Status display	LEDs: U <sub>S1</sub> , U <sub>S2</sub> (redundant voltage supply), link and activity per port
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## Environmental product compliance

EU REACH SVHC

REACH candidate substance (CAS No.)	
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	No substance above 0.1 wt%
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