

FL SWITCH LM 4TX/1FX-E - Industrial Ethernet Switch



2989433

<https://www.phoenixcontact.com/ae/products/2989433>

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.



Ethernet Lean Managed Switch with four 10/100 Mbps RJ45 ports and one 100 Mbps FX-SC multi-mode port, preconfigured for EtherNet/IP™

Product description

The compact lean managed switches (LM) make it possible to set up flexible and economical managed Ethernet networks in an automation environment. Its huge range of connection variants and extended temperature range of -40 °C to +70 °C enable it to perfectly cover the requirements of industrial applications. The integrated software allows networks to be redundantly set up, diagnosed and monitored using IT standard protocols.

Your advantages

- Ambient temperature -40 °C ... 70 °C
- Configurable alarm contact
- Web-based management, SNMP
- Configuration can be stored externally
- Compact housing
- Comprehensive fiber optic versions

Commercial data

Item number	2989433
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	DNN
Product key	DNN121
Catalog page	Page 297 (C-8-2015)
GTIN	4046356342445
Weight per piece (including packing)	306.1 g
Weight per piece (excluding packing)	303.1 g
Customs tariff number	85176200
Country of origin	DE

Technical data

Dimensions

Width	45 mm
Height	99 mm
Depth	112 mm

Mounting

Mounting type	DIN rail mounting
---------------	-------------------

Interfaces

Ethernet (RJ45)

Connection method	RJ45
Note on the connection method	Auto negotiation and autocrossing
Transmission speed	10/100 Mbps
Transmission physics	Copper
Transmission length	100 m (per segment)
No. of channels	4 (RJ45 ports)

Ethernet FO

Connection method	SC
Transmission speed	100 Mbps (full duplex)
Transmission physics	multi-mode fiberglass
Transmission length	8000 m (fiberglass with F-G 62.5/125 0.7 dB/km F1000) 6400 m (fiberglass with F-G 50/125 0.7 dB/km F1200) 3000 m (fiberglass with F-G 62.5/125 2.6 dB/km F600) 2800 m (fiberglass with F-G 50/125 1.6 dB/km F800)
Wavelength	1300 nm
No. of channels	1 (SC multi-mode)

Serial (RS-232)

Connection method	RS-232-C, 6-pos. MINI-DIN socket (PS/2)
-------------------	---

Product properties

Product type	Switch
Product family	Lean Managed Switch
Type	Block design

Insulation characteristics

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

Switch functions

Diagnostic functions	1:1-Portmirroring
----------------------	-------------------

FL SWITCH LM 4TX/1FX-E - Industrial Ethernet Switch



2989433

<https://www.phoenixcontact.com/ae/products/2989433>

Basic functions	Store-and-forward switch complies with IEEE 802.3, 2 priority classes according to IEEE 802.1p, TCP/IP protocol, BootP-compatible, port mirroring, integrated web server function, multicast filtering, IGMP snooping, VLAN, Rapid Spanning Tree (RSTP), DHCP server, PTCP filter
PROFINET conformance class	Conformance-Class A
Filter functions	Quality of Service
	VLAN (up to 8 VLANs)
	IGMP Query
	Auto-Query-Port
	Extended Multicast Filtering
Management	Web-based management (HTTP)
	SNMP v1/v2
	Serial interface (V.24)
Redundancy	STP (Spanning Tree Protocol)
	RSTP (Rapid Spanning Tree Protocol)
	FRD (Fast Ring Detection)
	Large Tree Support
Status and diagnostic indicators	LEDs: US1, US2 (power supply), Fail (alarm contact), 2 LEDs per Ethernet port (Link/Activity and Speed)
Supported browsers	Internet Explorer 5.5 or higher

Security functions

Basic functions	Store-and-forward switch complies with IEEE 802.3, 2 priority classes according to IEEE 802.1p, TCP/IP protocol, BootP-compatible, port mirroring, integrated web server function, multicast filtering, IGMP snooping, VLAN, Rapid Spanning Tree (RSTP), DHCP server, PTCP filter
-----------------	---

Electrical properties

Local diagnostics	US Supply voltage Green LED
	Link status Green LED
	Telegrams received Yellow LED
Maximum power dissipation for nominal condition	6 W
Transmission medium	Copper
	FO

Supply

Supply voltage (DC)	24 V DC (redundant)
Supply voltage range	18.5 V DC ... 30.5 V DC
Power supply connection	Via COMBICON, max. conductor cross section 2.5 mm ²
Residual ripple	3.6 V _{pp} (within the permitted voltage range)
Typical current consumption	250 mA (at U _S = 24 V DC)

Connection data

Connection method	Screw connection
Conductor cross section, rigid	0.2 mm ² ... 2.5 mm ²
Conductor cross section, flexible	0.2 mm ² ... 2.5 mm ²

FL SWITCH LM 4TX/1FX-E - Industrial Ethernet Switch



2989433

<https://www.phoenixcontact.com/ae/products/2989433>

Conductor cross section AWG	24 ... 12
Stripping length	7 mm

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-40 °C ... 70 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °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)	80 kPa ... 108 kPa (2000 m above mean sea level)
Air pressure (storage/transport)	70 kPa ... 108 kPa (3000 m above sea level)

EMC data

Conformance with EMC directives	IEC 61000-6-2 IEC 61000-4-2 (ESD) Criterion B
	IEC 61000-4-3 (immunity to radiated interference) Criterion A
	IEC 61000-4-4 (burst) Criterion B
	IEC 61000-4-5 (surge) Criterion B
	IEC 61000-4-6 (immunity to conducted interference) Criterion A
Noise immunity	EN 61000-6-2:2005
Electromagnetic compatibility	Conformance with EMC Directive 2014/30/EU
Noise emission	EN 61000-6-3/-4

System properties

Functionality

Basic functions	Store-and-forward switch complies with IEEE 802.3, 2 priority classes according to IEEE 802.1p, TCP/IP protocol, BootP-compatible, port mirroring, integrated web server function, multicast filtering, IGMP snooping, VLAN, Rapid Spanning Tree (RSTP), DHCP server, PTCP filter
-----------------	---

System requirements

Supported browsers	Internet Explorer 5.5 or higher
--------------------	---------------------------------

Signaling

Status display	LEDs: US1, US2 (power supply), Fail (alarm contact), 2 LEDs per Ethernet port (Link/Activity and Speed)
----------------	---

FL SWITCH LM 4TX/1FX-E - Industrial Ethernet Switch



2989433

<https://www.phoenixcontact.com/ae/products/2989433>

Classifications

ECLASS

ECLASS-11.0	19170401
ECLASS-12.0	19170401
ECLASS-13.0	19170401

UNSPSC

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

2989433

<https://www.phoenixcontact.com/ae/products/2989433>

Environmental product compliance

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.)	No substance above 0.1 wt%
-------------------------------------	----------------------------

Phoenix Contact 2024 © - all rights reserved
<https://www.phoenixcontact.com>

PHOENIX CONTACT Middle East FZ LLC
1201N-1206N, Dubai Science Park Towers – North
P.O. Box 345002, Dubai, United Arab Emirates
(+971) 4 437-0324
info-me@phoenixcontact.com