

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



2989624

<https://www.phoenixcontact.com/us/products/2989624>

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

The figure shows a version of the product

Product description

The compact Lean Managed Switches (LM) enable the flexible and cost-effective creation of managed Ethernet networks in automation applications. Thanks to the wide range of connection versions and the extended temperature range of -40°C to $+70^{\circ}\text{C}$, it optimally meets the requirements of industrial applications. It supports PROFINET conformance class A. And its integrated software enables the redundant creation, diagnostics, and monitoring of networks using IT standard protocols.

Your advantages

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

Commercial data

| | |
|--------------------------------------|--------------------------------|
| Item number | 2989624 |
| Packing unit | 1 pc |
| Note | Made to order (non-returnable) |
| Sales key | DN17 |
| Product key | DNN121 |
| GTIN | 4046356342377 |
| Weight per piece (including packing) | 314 g |
| Weight per piece (excluding packing) | 230 g |
| Customs tariff number | 85176200 |
| Country of origin | DE |

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



2989624

<https://www.phoenixcontact.com/us/products/2989624>

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 - Industrial Ethernet Switch



2989624

<https://www.phoenixcontact.com/us/products/2989624>

| | |
|----------------------------------|---|
| 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 - Industrial Ethernet Switch



2989624

<https://www.phoenixcontact.com/us/products/2989624>

| | |
|-----------------------------|-----------|
| 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

| | |
|---------------------------------|--|
| Electromagnetic compatibility | Conformance with EMC Directive 2014/30/EU |
| 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 |

Noise emission

| | |
|-----------------------|-----------------|
| Standards/regulations | 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 - Industrial Ethernet Switch



2989624

<https://www.phoenixcontact.com/us/products/2989624>

Classifications

UNSPSC

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

2989624

<https://www.phoenixcontact.com/us/products/2989624>

Environmental product compliance

EU RoHS

| | |
|---|--------------|
| Fulfills EU RoHS substance requirements | Yes |
| Exemption | 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.) | No substance above 0.1 wt% |
|-------------------------------------|----------------------------|

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