# FL SWITCH 1708 M12 POE - Industrial Ethernet Switch

2701883

https://www.phoenixcontact.com/us/products/2701883

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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

## Product description

The Gigabit Power over Ethernet switch, which is suitable for industrial applications, enables both energy and data to be transmitted via an Ethernet cable according to IEEE 802.3at/802.3af. Up to 30 W feed power per port is possible. The device is a compact switch in robust IP67 metal housing. It has eight 8-pos. M12 Ethernet connectors, which enable PoE/PoE+ devices to be supplied and operation with speeds of 10/100/1000 Mbps. As it supports jumbo frames up to 9720 bytes, the switch is ideal for networking cameras. A total power of 200 W is available for supplying up to eight PoE/PoE+ devices. The switch generates the required 54 V DC for Power over Ethernet according to IEEE 802.3at/802.3af from the 24 V module supply for the connected termination devices.

## Your advantages

- Gigabit support
- Robust IP67 housing
- Easy panel mounting
- PoE+ supply to 8 ports
- Jumbo frames with up to 9720 bytes
- Metal housing

## Commercial data

| | |
|---|---|
| Item number | 2701883 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Note | Made to order (non-returnable) |
| Sales key | DN19 |
| Product key | DNN114 |
| GTIN | 4055626004181 |
| Weight per piece (including packing) | 2,588 g |
| Weight per piece (excluding packing) | 2,300 g |
| Customs tariff number | 85176200 |
| Country of origin | DE |

## Technical data

### Dimensions

| | |
|---|---|
| Width | 176 mm |
| Height | 112 mm |
| Depth | 100 mm |
| Drill hole spacing | 155 mm |

### Notes

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|---|---|
| General | NOTE: Meet noise immunity requirements<br>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

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|---|---|
| Color | anthracite |
| Housing material | Zinc die-cast, surface bronzed and nickel-plated |
| Housing surface material | coated |

### Mounting

| | |
|---|---|
| Mounting type | Panel mounting |

### Interfaces

Ethernet (PoE)

| | |
|---|---|
| Number of interfaces | 8 |
| 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 |
| No. of channels | 8 (RJ45 PoE ports) |

Signal contact

| | |
|---|---|
| Number of interfaces | 1 (Annunciator relay) |
| Connection method | M12 connector, A-coded |

### Output data

Signal contact

| | |
|---|---|
| Control voltage | 24 V DC (typical) |
| Control current | 100 mA (24 V DC) |

### Product properties

| | |
|---|---|
| Product type | Switch |

| | |
|---|---|
| Product family | Unmanaged PoE Switch 1000 |
| Type | Stand-alone |
| MTTF | 208.85 Years (SN 29500 standard, temperature 25°C, operating cycle 21%) |
| | 93.43 Years (SN 29500 standard, temperature 40°C, operating cycle 34.25%) |
| | 9.98 Years (SN 29500 standard, temperature 70°C, operating cycle 100%) |

Insulation characteristics

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

Switch functions

| | |
|---|---|
| Signal contact control voltage | 24 V DC (typical) |
| Signal contact control current | 100 mA (24 V DC) |
| PROFINET conformance class | Conformance Class A |
| Status and diagnostic indicators | LEDs: US1, US2 (power supply), Fail (alarm contact), 3 LEDs per Ethernet port (Link, Activity, and PoE Status) |
| Basic functions | Store-and-forward switch, 10/100/1000 Mbps, auto negotiation, complies with standard IEEE 802.3, 4 priority classes according to IEEE 802.1p, PoE according to IEEE 802.3at/802.3af, jumbo frames up to 9720 bytes |
| Additional functions | Autonegotiation |

## Electrical properties

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|---|---|
| Local diagnostics | US Supply voltage US Green LED |
| Maximum power dissipation for nominal condition | 7.2 W |
| Test section | Between the Ethernet ports 1500 V AC 1 min |
| | 24 V supply (US) / FE 500 V 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, T-coded |
| Residual ripple | 3.6 $V_{PP}$ |
| Max. current consumption | 12 A (Maximum, nominal load) |
| Typical current consumption | 300 mA (at $U_S$ = 24 V DC) |

Supply: Module electronics

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

## Connection data

| | |
|---|---|
| Connection method | M12, shielded |

## Environmental and real-life conditions

Ambient conditions

| | |
|---|---|
| | IP65 |

| | |
|---|---|
| Degree of protection | IP66 |
| | IP67 |
| Ambient temperature (operation) | -40 °C ... 70 °C (non-condensing) |
| Ambient temperature (storage/transport) | -40 °C ... 70 °C |
| Permissible humidity (operation) | 10 % ... 95 % |
| Permissible humidity (storage/transport) | 10 % ... 95 % (non-condensing) |
| 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) |

## Standards and regulations

| | |
|---|---|
| Free from substances that could impair the application of coating | Yes |

## EMC data

| | |
|---|---|
| Electromagnetic compatibility | Conformance with EMC Directive 2014/30/EU |
| Conformance with EMC directives | EN 61000-4-2 EN 61000-4-2 (ESD) Criterion A |
| | EN 61000-4-3 (electromagnetic fields) EN 61000-4-3 (electromagnetic fields) Criterion A |
| | EN 61000-4-6 EN 61000-4-6 (line noise immunity) Criterion A |
| | EN 61000-4-4 EN 61000-4-4 Criterion A |
| | EN 61000-4-5 EN 61000-4-5 (surge) Criterion A |
| | EN 60950-1 |
| Noise immunity | EN 61000-4-2 |

Noise emission

| | |
|---|---|
| Standards/regulations | EN 55022 / Class B |

## Signaling

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

## Classifications

### UNSPSC

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|---|---|
| UNSPSC 21.0 | 43222600 |

## 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

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|---|---|
| REACH candidate substance (CAS No.) | Lead(CAS: 7439-92-1) |

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