

# FL SWITCH 2108 - Industrial Ethernet Switch



2702666

<https://www.phoenixcontact.com/us/products/2702666>

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The figure shows a version of the product

Managed Switch 2000 series, 8 RJ45 ports 10/100/1000 Mbps, degree of protection: IP20, Ambient temperature (operation): 0 °C ... 60 °C, Supply voltage range: 18 V DC ... 32 V DC, PROFINET Conformance Class A, Development process certified in accordance with IEC 62443-4-1, Product certified in accordance with IEC 62443-4-2, The product is being prepared for compliance with the Cyber Resilience Act (CRA)

## Your advantages

- MRP client
- VLANs
- Unmanaged Mode
- DHCP client, DHCP server (port-based)
- RSTP
- Configuration memory
- Web-based management, SNMP
- Easy and fast startup and commissioning with the FL NETWORK MANAGER software
- Suitable for PROFINET and EtherNet/IP™ networks



## Commercial data

Item number

2702666

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|                                      |               |
|--------------------------------------|---------------|
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | DN17          |
| Product key                          | DNN121        |
| GTIN                                 | 4055626283418 |
| Weight per piece (including packing) | 350.6 g       |
| Weight per piece (excluding packing) | 240 g         |
| Customs tariff number                | 85176200      |
| Country of origin                    | DE            |

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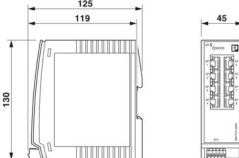


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## Technical data

### Dimensions

|                     |                                                                                    |
|---------------------|------------------------------------------------------------------------------------|
| Dimensional drawing |  |
| Width               | 45 mm                                                                              |
| Height              | 130 mm                                                                             |
| Depth               | 119 mm                                                                             |

### Notes

|                     |                                                                                                                                                                                                                               |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Note on application | Support by phone or on-site (fee is charged)                                                                                                                                                                                  |
| Note on application | Only for industrial use                                                                                                                                                                                                       |
| Note on application | As things stand now, we are preparing the product so that, as of December 11, 2027, it will comply with the requirements of the EU Cyber Resilience Act (CRA) based on the information currently available regarding the CRA. |

### Utilization restriction

|          |                                                                           |
|----------|---------------------------------------------------------------------------|
| EMC note | EMC: class A product, see manufacturer's declaration in the download area |
|----------|---------------------------------------------------------------------------|

### Material specifications

|                  |                                |
|------------------|--------------------------------|
| Color (Housing)  | gray (RAL 7042)                |
| Color (Cover)    | light gray (RAL 7035)          |
| Housing material | Polycarbonate fiber reinforced |

### Mounting

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

### Interfaces

#### Ethernet (RJ45)

|                               |                                   |
|-------------------------------|-----------------------------------|
| Connection method             | RJ45                              |
| Note on the connection method | Auto negotiation and autocrossing |
| Transmission speed            | 10/100/1000 Mbps                  |
| Transmission physics          | Copper                            |
| Transmission length           | 100 m (per segment)               |
| Signal LEDs                   | Data receive, link status         |
| No. of channels               | 8 (RJ45 ports)                    |

### Product properties

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

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|                    |                                                                                  |
|--------------------|----------------------------------------------------------------------------------|
| Product family     | Managed Switch 2000                                                              |
| Type               | Book type                                                                        |
| MTTF               | 398.76 Years (SN 29500 standard, temperature 25°C, operating cycle 21%)          |
|                    | 174.97 Years (SN 29500 standard, temperature 40°C, operating cycle 34.25%)       |
|                    | 31.76 Years (SN 29500 standard, temperature 55°C, operating cycle 100%)          |
| Special properties | Development process certified in accordance with IEC 62443-4-1                   |
|                    | Product certified in accordance with IEC 62443-4-2                               |
|                    | The product is being prepared for compliance with the Cyber Resilience Act (CRA) |
| Signal delay       | ≥ 1.9 µs (Store-and-Forward mode, 10/100/1000 Mbps, depending on the frame size) |

## Insulation characteristics

|                     |                |
|---------------------|----------------|
| Protection class    | III (VDE 0106) |
| Degree of pollution | 2              |

## Switch functions

|                                  |                                                                             |
|----------------------------------|-----------------------------------------------------------------------------|
| IP parameterization              | DHCP client                                                                 |
|                                  | DHCP server (port based)                                                    |
|                                  | BootP                                                                       |
| MAC address table                | 8k                                                                          |
| PROFINET conformance class       | Conformance Class A                                                         |
| Status and diagnostic indicators | LEDs: US (power supply), 2 LEDs per Ethernet port (Link/Activity and Speed) |
| Basic functions                  | Store-and-forward switch, complies with IEEE 802.3                          |
| Management functions             | Web-based management (HTTP/HTTPS)                                           |
|                                  | Role-based user management (LDAP)                                           |
|                                  | SNMPv1/v2/v3                                                                |
|                                  | Command Line Interface (Telnet, SSH)                                        |
| Diagnostic functions             | RMON History                                                                |
|                                  | LLDP (Link Layer Discovery Protocol)                                        |
|                                  | SNMP-Traps                                                                  |
|                                  | N:1-Portmirroring                                                           |
|                                  | ACD (Address Conflict Detection)                                            |
|                                  | SysLog                                                                      |
|                                  | CRC-Surveillance                                                            |
| Filter functions                 | Quality of Service (8 priority classes)                                     |
|                                  | Class of Service                                                            |
|                                  | DiffServ/DSCP                                                               |
|                                  | Port-Priorisierung                                                          |
|                                  | VLAN (up to 8 VLANs)                                                        |
|                                  | IGMP Snooping/Querier (v1/v2)                                               |
|                                  | Auto-Query-Port                                                             |

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|                      |                                               |
|----------------------|-----------------------------------------------|
|                      | Extended Multicast Filtering                  |
| Redundancy functions | MRP (Media Redundancy Protocol)               |
|                      | RSTP (Rapid Spanning Tree Protocol)           |
| Time synchronization | SNTP (Simple Network Time Protocol)           |
| Additional functions | Jumbo frames (max. 9,600 bytes)               |
|                      | Transmission of MMS and GOOSE (IEC 61850-8-1) |
|                      | Transmission of Modbus/TCP                    |

## Electrical properties

|                                                 |                                                          |
|-------------------------------------------------|----------------------------------------------------------|
| Current consumption                             | 275 mA                                                   |
| Local diagnostics                               | US Supply voltage Green LED                              |
|                                                 | LINK Link status Green LED                               |
|                                                 | SPD Data transmission speed Green/orange LED             |
| Maximum power dissipation for nominal condition | 7.02 W (At $U_S = 18$ V DC and 60°C ambient temperature) |
| 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 (single)                                               |
| Supply voltage range        | 18 V DC ... 32 V DC                                            |
| Power supply connection     | via COMBICON, max. conductor cross-section 1.5 mm <sup>2</sup> |
| Residual ripple             | 3.6 V <sub>PP</sub> (within the permitted voltage range)       |
| Max. current consumption    | 0.4 A (At $U_S = 18$ V DC and 60°C ambient temperature)        |
| Typical current consumption | 275 mA (at $U_S = 24$ V DC and 25 °C ambient temperature)      |
| Current consumption         | 275 mA                                                         |

## Connection data

|                                   |                                                                                                |
|-----------------------------------|------------------------------------------------------------------------------------------------|
| Connection method                 | Push-in spring connection                                                                      |
| Note on the connection method     | Use only copper connecting cables providing the permitted temperature range (-40 °C ... 75 °C) |
| pluggable                         | yes                                                                                            |
| Conductor cross-section, rigid    | 0.25 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>                                                   |
| Conductor cross-section, flexible | 0.25 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>                                                   |
| Conductor cross-section AWG       | 24 ... 16                                                                                      |
| Stripping length                  | 9 mm                                                                                           |

## Environmental and real-life conditions

### Ambient conditions

|                                          |                                |
|------------------------------------------|--------------------------------|
| Degree of protection                     | IP20                           |
| Ambient temperature (operation)          | 0 °C ... 60 °C                 |
| Ambient temperature (storage/transport)  | -40 °C ... 85 °C               |
| Permissible humidity (operation)         | 10 % ... 95 % (non-condensing) |
| Permissible humidity (storage/transport) | 10 % ... 95 % (non-condensing) |

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|                                  |                                             |
|----------------------------------|---------------------------------------------|
| Shock (operation)                | 30g (EN 60068-2-27)                         |
| Vibration (operation)            | 2g, according to IEC 60068-2-6              |
| Air pressure (operation)         | 86 kPa ... 108 kPa (1500 m above sea level) |
| Air pressure (storage/transport) | 86 kPa ... 108 kPa (1500 m above sea level) |

## Standards and regulations

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

## Approvals

UL, USA/Canada

|                |                                                                                                                 |
|----------------|-----------------------------------------------------------------------------------------------------------------|
| Identification | cULus                                                                                                           |
| Note           | UL 61010-1, Ed. 3 / UL 61010-2-201, Ed. 1, CSA C22.2 NO. 61010-2-201:14, Ed. 1 / CSA C22.2 NO.61010-1-12, Ed. 3 |

## 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              |
|                                 | 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 61000-6-2 EN 61000-6-4 (interference) Class A               |
| Noise immunity                  | EN 61000-6-2 EN 61000-6-4 (conducted interference) Class A     |
|                                 | EN 61000-6-2                                                   |

Noise emission

|                       |              |
|-----------------------|--------------|
| Standards/regulations | EN 61000-6-4 |
|-----------------------|--------------|

## Signaling

|                |                                                                             |
|----------------|-----------------------------------------------------------------------------|
| Status display | LEDs: US (power supply), 2 LEDs per Ethernet port (Link/Activity and Speed) |
|----------------|-----------------------------------------------------------------------------|

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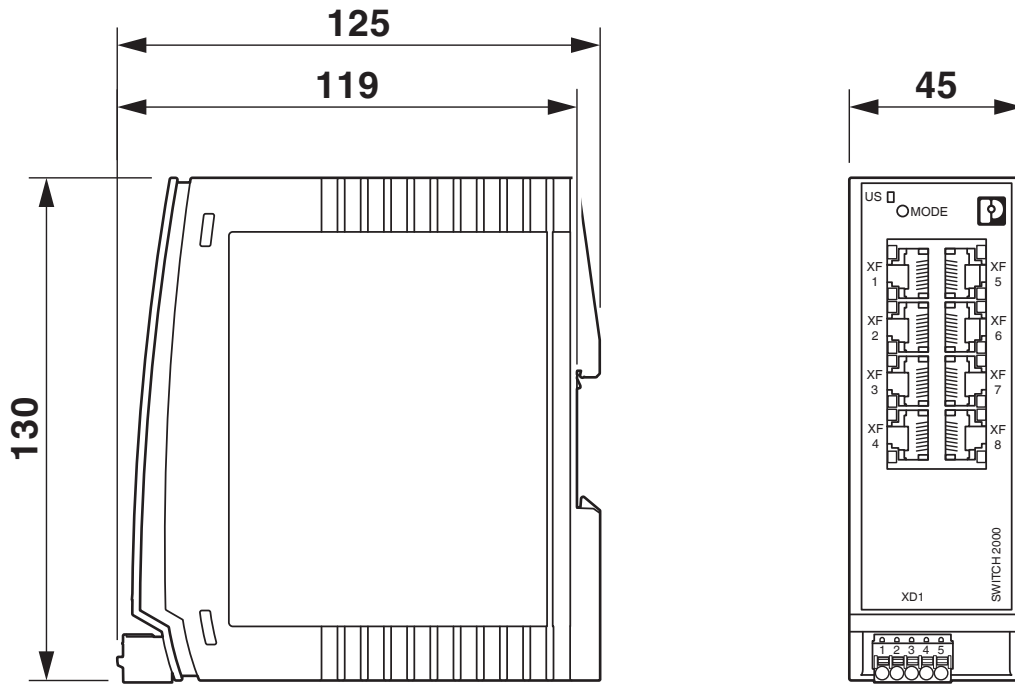
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## Drawings

## Dimensional drawing



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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2702666>



**cULus Listed**

Approval ID: E238705

**CC-Link IE Field**

**CC-Link IE Field**

Approval ID: Ref. No. 101

**Cybersecurity Certificate**

Approval ID: 968 CSP 1043.00 25



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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 19170401 |
| ECLASS-15.0 | 19170401 |

### ETIM

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

### UNSPSC

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

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## 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.) | Lead(CAS: 7439-92-1)                 |
| SCIP                                | 9f639afc-ca11-4373-afe2-353180d325ee |

### EF3.1 Climate Change

|         |               |
|---------|---------------|
| CO2e kg | 8.769 kg CO2e |
|---------|---------------|

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