

# FL PSE 2TX - Ethernet module



2891013

<https://www.phoenixcontact.com/us/products/2891013>

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Factoryline Power-over-Ethernet modules (PSE) for midspan power supply according to IEEE 802.3af, two PoE supply ports, no configuration required, function possible with 10 and 100 Mbps networks

## Product description

Power-over-Ethernet-Module (PSE) for midspan power supply according to IEEE 802.3af. The industrial Power-over-Ethernet modules enable the common transmission of power and data according to IEEE 802.3af via the Ethernet medium. Consequently, terminal equipment, such as WLAN or Bluetooth access points, IP telephones or IP cameras can be connected to the network quickly and economically. The FL PSE 2TX is a compact stand-alone solution that converts the two standard Ethernet ports to Power-over-Ethernet ports. The FL PSE 2TX is a Plug & Play device and generates the 48 V DC required for Power-over-Ethernet from the 24 V module supply according to IEEE 802.3af.

## Your advantages

- Compact housing
- IEEE 802.3af
- Can be combined with Fast Ethernet switch

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 2891013       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | DN18          |
| Product key                          | DNN142        |
| GTIN                                 | 4046356076043 |
| Weight per piece (including packing) | 404 g         |
| Weight per piece (excluding packing) | 320 g         |
| Customs tariff number                | 85176200      |
| Country of origin                    | DE            |

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## Technical data

### Dimensions

|        |        |
|--------|--------|
| Width  | 45 mm  |
| Height | 99 mm  |
| Depth  | 112 mm |

### Notes

#### Note on application

|                     |                         |
|---------------------|-------------------------|
| Note on application | Only for industrial use |
|---------------------|-------------------------|

#### Utilization restriction

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

### Material specifications

|                  |                  |
|------------------|------------------|
| Color (Housing)  | green (RAL 6021) |
| Housing material | PA 6.6           |

### Mounting

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

### Interfaces

#### Ethernet (RJ45)

|                      |                                        |
|----------------------|----------------------------------------|
| Connection method    | RJ45                                   |
| Transmission speed   | 10/100 Mbps                            |
| Transmission physics | Copper                                 |
| Transmission length  | 100 m (Between transmitter / receiver) |
| Signal LEDs          | PoE detection                          |
| No. of channels      | 2 (RJ45 ports)                         |

#### Ethernet

|                     |                |
|---------------------|----------------|
| Connection method   | RJ45           |
| Transmission speed  | 10/100 Mbps    |
| Transmission length | up to 100 m    |
| No. of channels     | 2 (RJ45 ports) |

### Product properties

|                |                             |
|----------------|-----------------------------|
| Product type   | Power over Ethernet devices |
| Type           | Stand-alone                 |
| Operating mode | Mode transparent            |

#### Insulation characteristics

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

## Electrical properties

|                                                 |                                                          |
|-------------------------------------------------|----------------------------------------------------------|
| Local diagnostics                               | US Supply voltage Green LED                              |
|                                                 | PoE PoE detection Yellow LED                             |
| Maximum power dissipation for nominal condition | 2.4 W                                                    |
| 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 (via COMBICON; max. conductor cross-section 2.5 mm <sup>2</sup> )                                         |
| Supply voltage range        | 18.5 V DC ... 30.5 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 | typ. 100 mA (During no load; approx. 1800 mA at 24 V at the input with maximum load and 25°C ambient temperature) |

## Connection data

### Conductor connection

|                   |                |
|-------------------|----------------|
| Connection method | RJ45, shielded |
|-------------------|----------------|

## Environmental and real-life conditions

### Ambient conditions

|                                                                                              |                                                                                                                                                                                                             |
|----------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Degree of protection                                                                         | IP20                                                                                                                                                                                                        |
| Ambient temperature (operation)                                                              | 0 °C ... 55 °C                                                                                                                                                                                              |
| 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 (2000 m above mean sea level)                                                                                                                                                            |
| Air pressure (storage/transport)                                                             | 66 kPa ... 108 kPa (3500 m above sea level)                                                                                                                                                                 |
| 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 |

## Standards and regulations

|                                                                   |                               |
|-------------------------------------------------------------------|-------------------------------|
| Free from substances that could impair the application of coating | In acc. with VW specification |
|-------------------------------------------------------------------|-------------------------------|

## 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 A                             |
|                                 | IEC 61000-4-5 (surge) Criterion B                             |

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|                |                                                                |
|----------------|----------------------------------------------------------------|
|                | IEC 61000-4-6 (immunity to conducted interference) Criterion A |
|                | IEC 61000-4-8 (immunity to magnetic fields) Criterion A        |
|                | EN 55022 (emitted interference) Criterion A                    |
| Noise immunity | EN 61000-6-2:2005                                              |

## Noise emission

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

## System properties

### Functionality

|                 |                                         |
|-----------------|-----------------------------------------|
| Basic functions | PSE/midspan, complies with IEEE 802.3af |
|-----------------|-----------------------------------------|

## Signaling

|                |                                  |
|----------------|----------------------------------|
| Status display | LEDs: US, PoE detection per port |
|----------------|----------------------------------|

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2891013>



**cUL Recognized**

Approval ID: E140324



**UL Recognized**

Approval ID: E140324



**cUL Listed**

Approval ID: E199827



**UL Listed**

Approval ID: E199827

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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                                | 7618ad8b-403c-481e-8236-45d7a8c59897 |

### EF3.1 Climate Change

|         |               |
|---------|---------------|
| CO2e kg | 5.742 kg CO2e |
|---------|---------------|

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