FL PSE 2TX - Ethernet module

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

ELEKTROGERÄTE RÜCKNAHME

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)	436.3 g
Weight per piece (excluding packing)	320 g

Customs tariff number	85176200
Country of origin	DE

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 mm²)
Supply voltage range	18.5 V DC ... 30.5 V DC
Power supply connection	Via COMBICON, max. conductor cross-section 2.5 mm²
Residual ripple	3.6 V_{PP} (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)
Ground connection	Via DIN rail

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_2) 10 ±0.3 cm^3/m^3, hydrogen sulfide (H_2S) 1 ±0.3 cm^3/m^3, 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
	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

Signaling

Status display	LEDs: US, PoE detection per port

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

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Classifications

ECLASS

ECLASS-13.0	19170401
ECLASS-15.0	19170401

ETIM

ETIM 10.0	EC000734

UNSPSC

UNSPSC 21.0	43222600

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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Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com