

FL PD 1001 T GT - Ethernet module



2891042

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Factoryline Power over Ethernet splitter (PD) for separating power and data according to IEEE 802.3af and at, no configuration required, can be used with 10, 100, 1000 Mbps networks, 24 V DC output voltage

Product description

Power over Ethernet splitter (PD) for separating power and data according to IEEE 802.3af and IEEE 802.3at. The Power over Ethernet splitter, which is suitable for industrial applications, enables the decoupling of Ethernet data with up to 1000 Mbps of the transmitted energy. The 24 V DC voltage is supplied to the PoE splitter in line with the application. Depending on the type of connected PoE supply (802.3af/802.3at), 10.5 W or 21.5 W are available to the terminal device on the splitter. This means that terminal devices without PoE interface such as WLAN or Bluetooth access points, IP phones or IP cameras can be easily connected to a PoE interface.

Your advantages

- Compact housing
- IEEE 802.3af, at

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Technical data

Dimensions

Width	40 mm
Height	100 mm
Depth	109 mm

Notes

Utilization restriction

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

Housing material	Metal
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Mounting

Mounting type	DIN rail mounting
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Interfaces

Ethernet (RJ45)

Connection method	RJ45
Transmission speed	10/100/1000 Mbps
Transmission physics	Copper
Transmission length	100 m (Total)
No. of channels	1 (RJ45 ports)
No. of channels	1

Ethernet

Connection method	RJ45
Transmission speed	10/100/1000 Mbps
Transmission length	up to 100 m (complete system)
No. of channels	1 (RJ45 ports)

Product properties

Type	Stand-Alone
Product type	Power over Ethernet devices
Operating mode	Mode transparent
MTTF	1344.41 Years (SN 29500 standard, temperature 25°C, operating cycle 21%)
	520.19 Years (SN 29500 standard, temperature 40°C, operating cycle 34.25%)
	52.81 Years (SN 29500 standard, temperature 70°C, operating cycle 100%)

Insulation characteristics

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

Local diagnostics	24 V Output voltage Green LED
	PoE PoE detection Yellow LED
Test section	for one minute 1500 V AC 1 min.
Transmission medium	Copper

Supply

Supply voltage (DC)	48 V DC (via PoE)
Supply voltage range	44 V DC ... 57 V DC
Power supply connection	via PoE

Connection data

Conductor connection

Conductor cross section	0.14 mm ² ... 1.5 mm ²
Connection cross section AWG	24 ... 12

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)	10 % ... 95 % (non-condensing)
Permissible humidity (storage/transport)	10 % ... 95 % (non-condensing)
Vibration (operation)	in acc. with IEC 60068-2-6: 5g, 150 Hz
Air pressure (operation)	86 kPa ... 108 kPa
Air pressure (storage/transport)	66 kPa ... 108 kPa (3500 m above sea level)

EMC data

Conformance with EMC directives	IEC 61000-6-2 IEC 61000-4-2 (ESD) Criterion A
	IEC 61000-4-3 (immunity to radiated interference) Criterion A
	IEC 61000-4-4 (burst) Criterion A
	IEC 61000-4-5 (surge) Criterion A
	IEC 61000-4-6 (immunity to conducted interference) Criterion A
	EN 55022 (emitted interference) Criterion A
Noise immunity	EN 61000-6-2:2005
Electromagnetic compatibility	Conformance with EMC Directive 2014/30/EU
Noise emission	EN 61000-6-4

System properties

Functionality

Basic functions	PD, conforms to IEEE 802.3af/at
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Signaling

Status display

LEDs: POE, 24 V DC

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