INJ 1000 - Injector

2703005

https://www.phoenixcontact.com/gb/products/2703005

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PoE injector, 30 W, two RJ45 jacks, 10/100/1000 Mbps, DIN rail mounting, IP20

Product description

The midspan injectors connect Ethernet devices without PoE (e.g., switches) to PoE-capable end devices (e.g., IP cameras). As power sourcing equipment (PSE), the injector supplies the required power to a powered device (PD) via the data cable. The injector and end device negotiate the electrical power requirements autonomously.

Your advantages

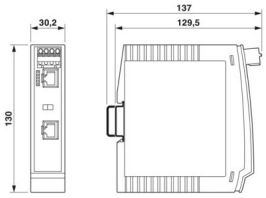
- Extended supply voltage range of 18 V DC ... 57 V DC, redundant
- 10/100/1000 Mbps
- Mounting on a DIN rail
- Safe shield connection to ground potential

Commercial data

Item number	2703005
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DNC351
Product key	DNC351
GTIN	4055626462936
Weight per piece (including packing)	392.7 g
Weight per piece (excluding packing)	248.5 g
Customs tariff number	85044083
Country of origin	TW

Technical data

Dimensions

Dimensional drawing	
Width	30.2 mm
Height	130 mm
Depth	120 mm

Notes

Note on application

Note on application	Only for industrial use

Material specifications

Color (Housing)	gray (RAL 7042)
Color (Cover)	light gray (RAL 7035)
Housing material	Plastic

Mounting

Mounting type	DIN rail mounting
Mounting position	vertical

Interfaces

Basic functions	PSE/Midspan, compliant with IEEE 802.3af, at

Data: Power over Ethernet

Serial transmission speed	10/100/1000 Mbps
Connection method	RJ45 jack
No. of channels	1
Pin assignment	1:1
Transmission length	100 m (including patch cables)
Output nominal voltage	54 V DC (PoE)
Output power	30 W

Data: Ethernet

Connection method	RJ45 CAT5e

Product properties

Product type	Injector

MTTF	110 Years (MIL-HDBK-217F standard, temperature 25°C, operating cycle 100%)

Functions

Basic functions	PSE/Midspan, compliant with IEEE 802.3af, at

Security functions

Basic functions	PSE/Midspan, compliant with IEEE 802.3af, at

Electrical properties

Maximum power dissipation for nominal condition	33.6 W

Supply

Supply voltage range	18 V DC ... 57 V DC (Ordinary locations)
	24 V DC ... 48 V DC (Hazardous locations)
Nominal supply voltage	24 V DC
	48 V DC
Max. current consumption	2.1 A
	1.4 A (24 V DC)
	0.7 A (48 V DC)
Power consumption	≤ 36 W
Protective circuit	Reverse polarity protection

Connection data

Supply

Conductor cross-section, flexible, with ferrule, without plastic sleeve	0.25 mm² ... 2.5 mm²
Conductor cross-section, flexible, with ferrule, with plastic sleeve	0.25 mm² ... 2.5 mm²
Conductor cross-section, flexible	0.20 mm² ... 2.50 mm²
Conductor cross-section, rigid	0.20 mm² ... 2.50 mm²
Conductor cross-section AWG	20 ... 12

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20 (Non-certificated by UL)
Ambient temperature (operation)	0 °C ... 60 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Altitude	≤ 5000 m (For restrictions, see the manufacturer's declaration for altitude operation)
	≤ 2000 m (with UL approval)
Permissible humidity (operation)	10 % ... 95 % (non-condensing)

Approvals

CE

Identification	CE-compliant

EAC

Identification	EAC

UL, USA/Canada

Identification	Class I, Div. 2, Groups A, B, C, D T4

Corrosive gas test

Identification	ISA-S71.04-1985 G3 Harsh Group A

EMC data

Electromagnetic compatibility	Conformance with EMC Directive 2014/30/EU

Electrostatic discharge

Standards/regulations	EN 61000-4-2

Electrostatic discharge

Contact discharge	± 6 kV (Test Level 3)
Discharge in air	± 8 kV (Test Level 3)
Indirect discharge	± 6 kV
Comments	Criterion B

Electromagnetic HF field

Standards/regulations	EN 61000-4-3

Electromagnetic HF field

Frequency range	80 MHz ... 3 GHz (Test Level 3)
Field intensity	10 V/m
Comments	Criterion A

Fast transients (burst)

Standards/regulations	EN 61000-4-4

Fast transients (burst)

Input	± 2.2 kV (1 minute)
Signal	± 2.2 kV (1 minute)
Comments	Criterion B

Surge current load (surge)

Standards/regulations	EN 61000-4-5

Surge current load (surge)

Input	± 0.5 kV
Signal	± 1 kV (Data line, asymmetrical)
	± 2 kV (I/O cable on field side only, asymmetric)
Comments	Criterion B

Conducted interference

Standards/regulations	EN 61000-4-6

Conducted interference

Frequency range	0.15 MHz ... 80 MHz
Comments	Criterion A
Voltage	10 V

Emitted interference

Standards/regulations	EN 61000-6-4
Comments	Class A, industrial applications

Emitted interference

Standards/regulations	EN 61000-6-3
Comments	Class B, domain of use: residential and small commercial

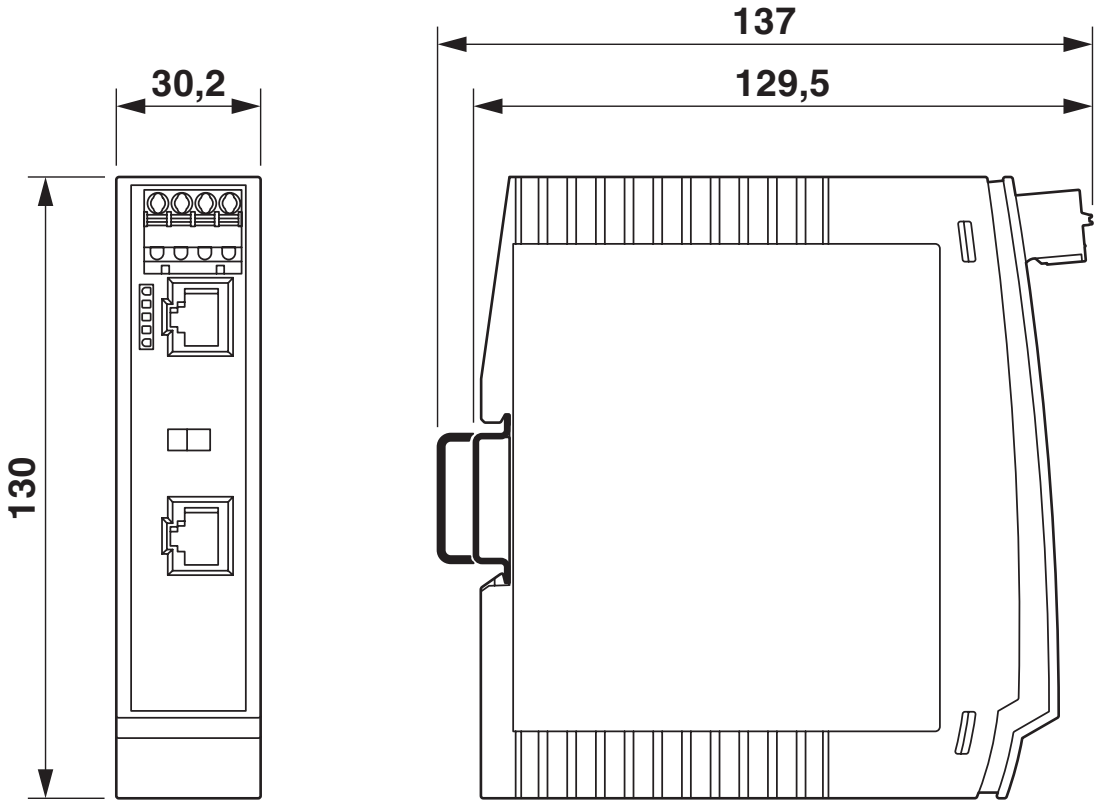
System properties

Functionality

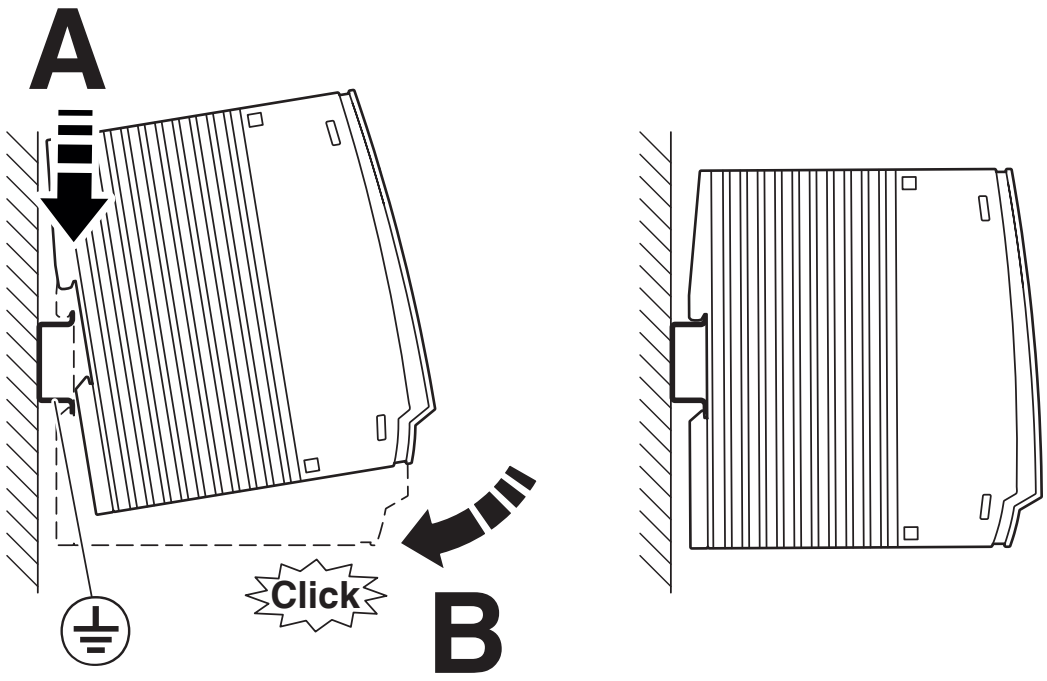
Basic functions	PSE/Midspan, compliant with IEEE 802.3af, at

Drawings

Dimensional drawing

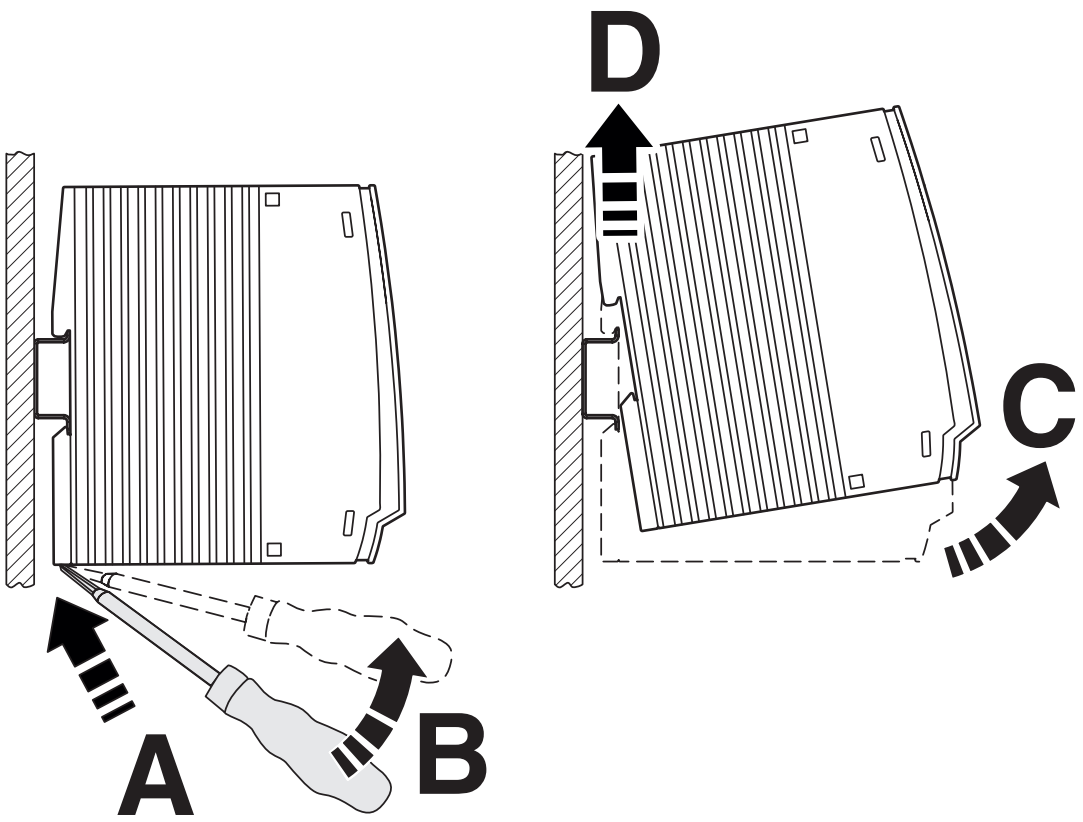


Schematic diagram



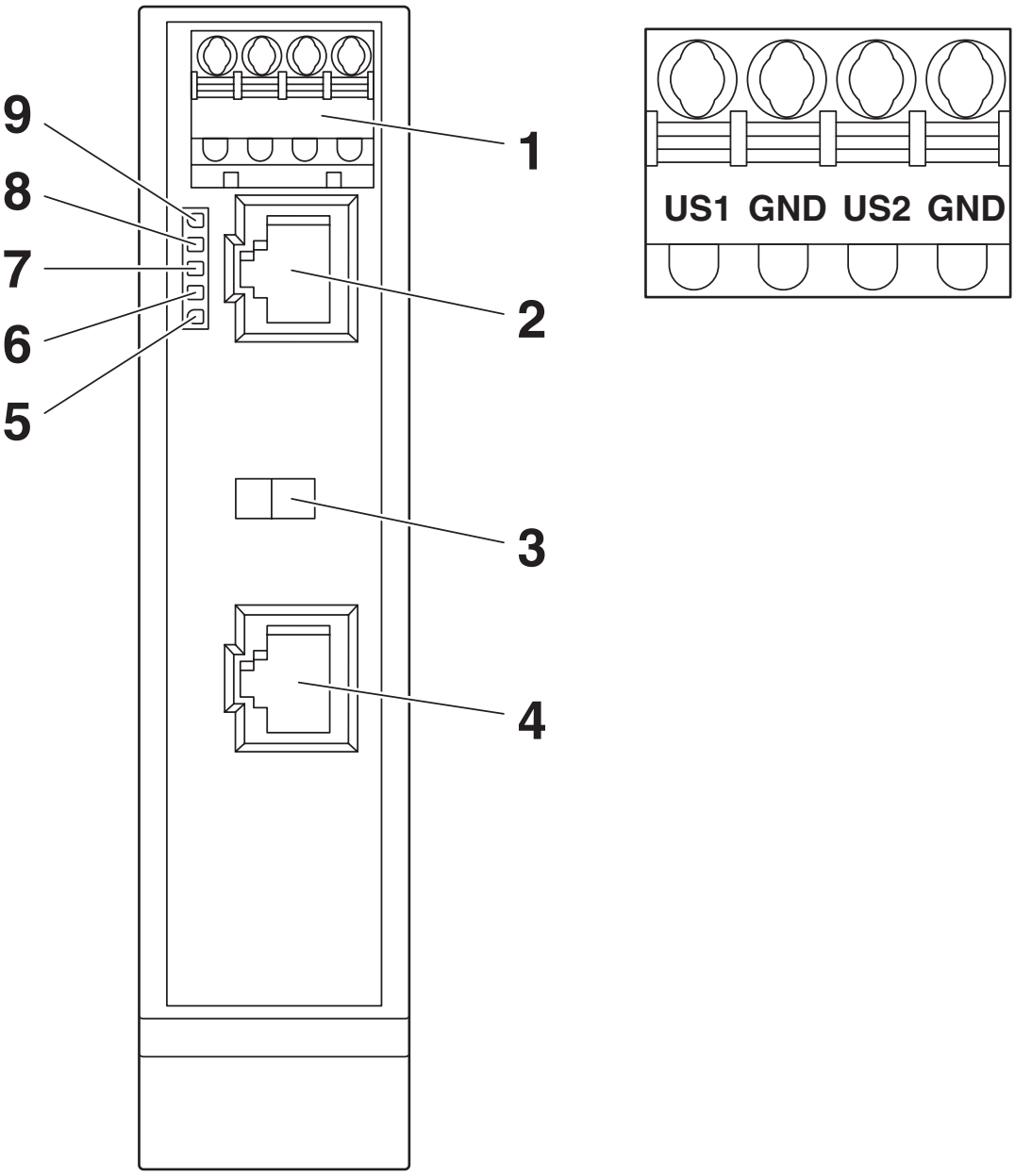
Mounting

Schematic diagram



Removal

Schematic diagram



Front view

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/gb/products/2703005

cULus Listed
Approval ID: E238705

cUL Listed
Approval ID: E196811

UL Listed
Approval ID: E196811

Classifications

ECLASS

ECLASS-13.0	19170112
ECLASS-15.0	19170112

ETIM

ETIM 10.0	EC001128

UNSPSC

UNSPSC 21.0	43223300

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	15, 15(a), 7(a), 7(c)-I

China RoHS

Environment friendly use period (EFUP)	EFUP-10
	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	40093b06-8b08-4f1d-9dfc-c8c2d260d413

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