# INJ 1000-T - Injector

2703006

https://www.phoenixcontact.com/us/products/2703006

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PoE injector, 30 W, two RJ45 jacks, 10/100/1000 Mbps, DIN rail mounting, IP20, expanded temperature range of -40°C ... 75°C

## 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

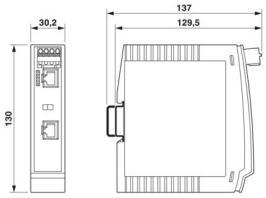
- Extended temperature range of -40 °C ... +75 °C
- 10/100/1000 Mbps
- Mounting on a DIN rail
- Extended supply voltage range of 18 V DC ... 57 V DC, redundant
- Safe shield connection to ground potential

## Commercial data

| | |
|---|---|
| Item number | 2703006 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | DN18 |
| Product key | DNC351 |
| GTIN | 4055626462943 |
| Weight per piece (including packing) | 396.7 g |
| Weight per piece (excluding packing) | 249.6 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) | -40 °C ... 75 °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 |

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 |

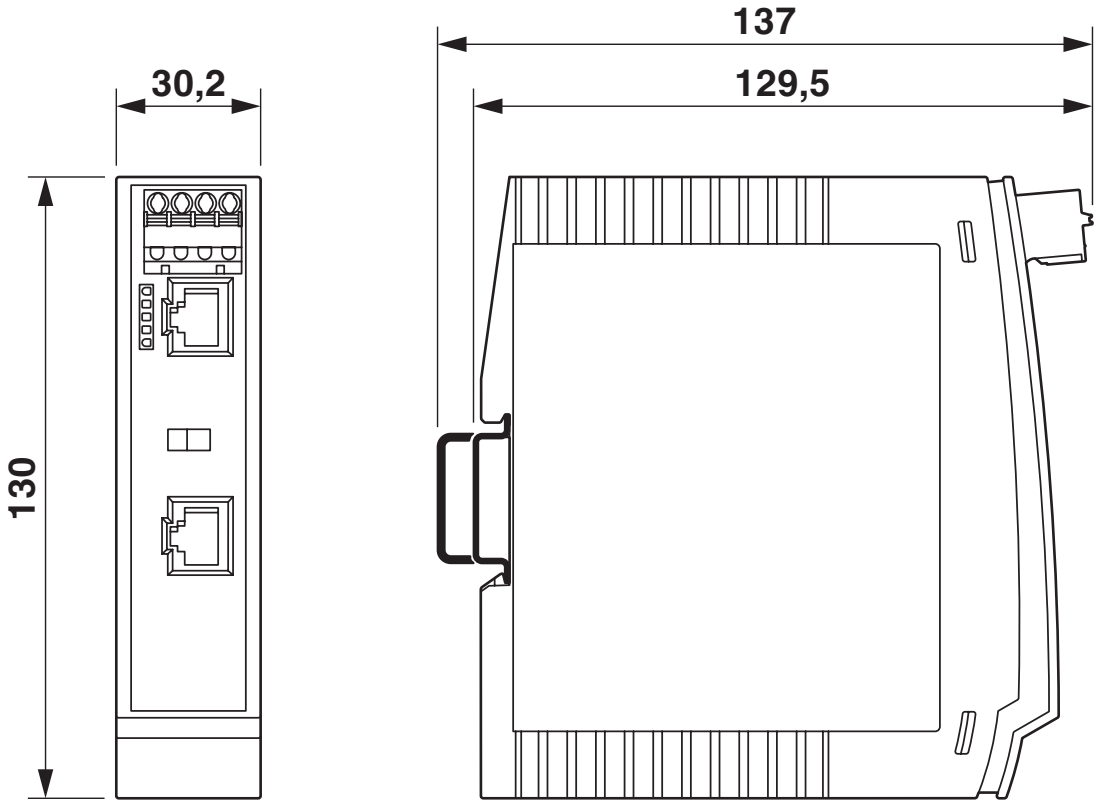
## System properties

Functionality

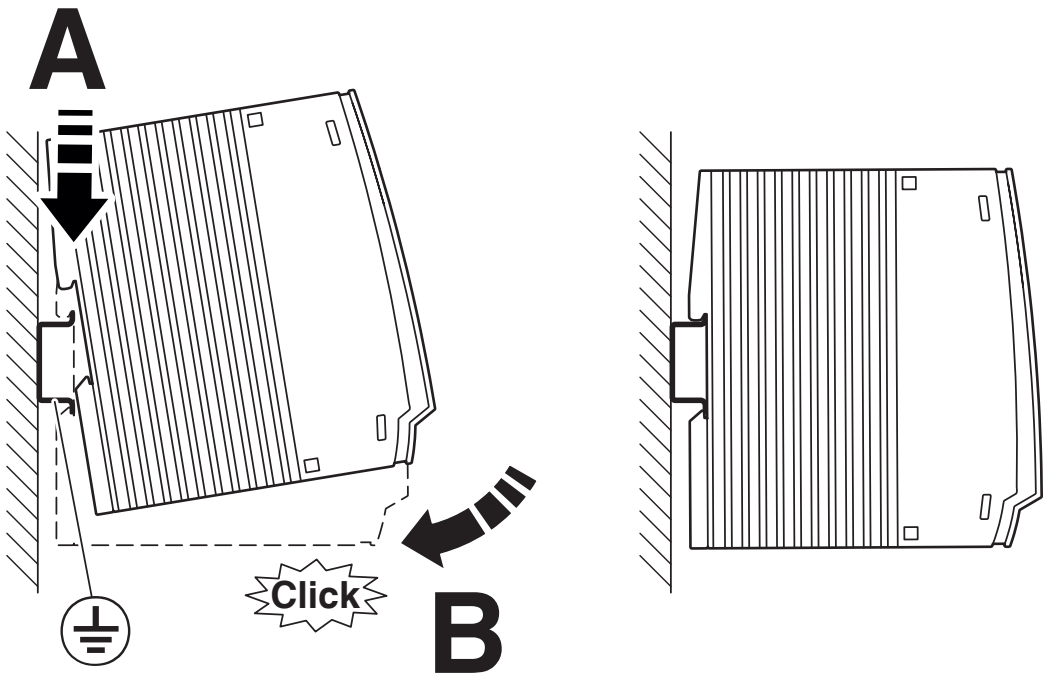
| | |
|---|---|
| Basic functions | PSE/Midspan, compliant with IEEE 802.3af, at |

## Drawings

Dimensional drawing

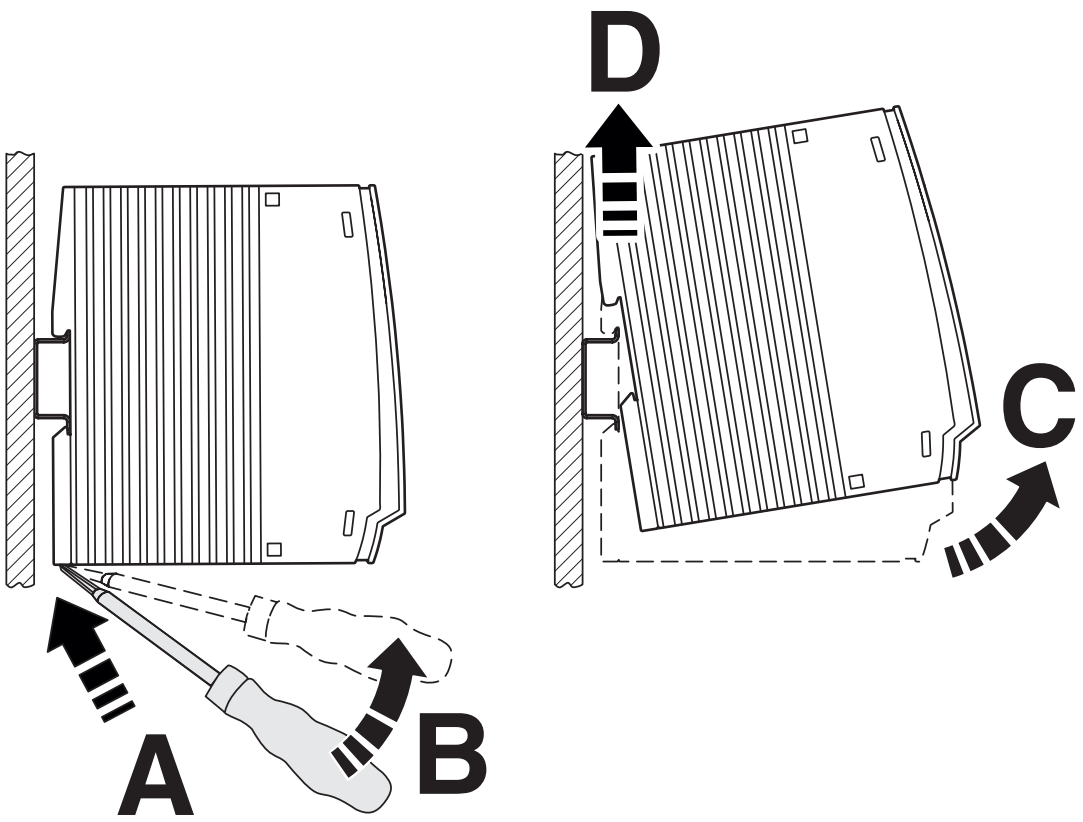


Schematic diagram



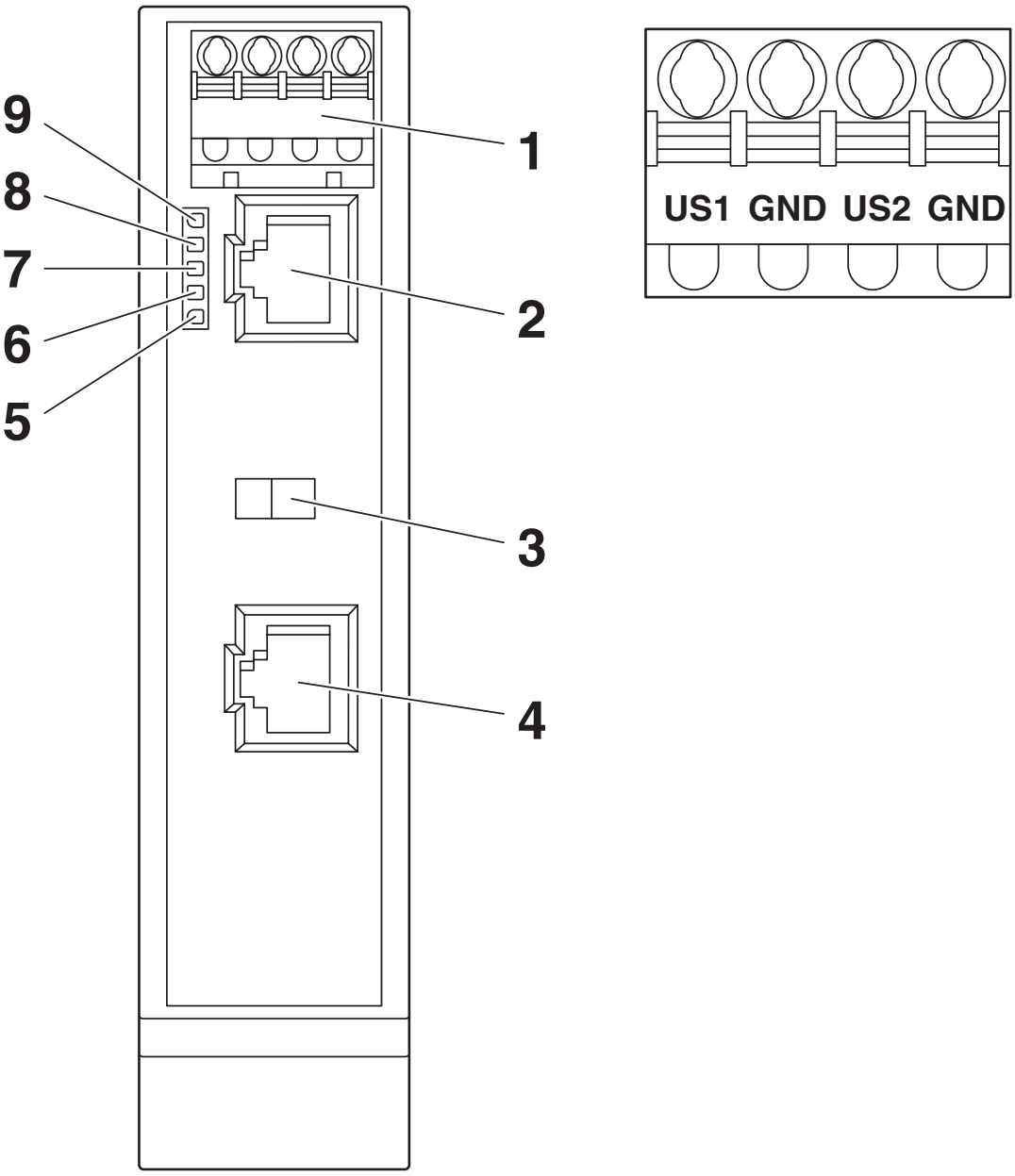

Mounting

Schematic diagram




Removal

Schematic diagram




Front view

## Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/2703006

**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 | bb733941-05d1-4956-b924-cb13af657f70 |


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